

# Environment Protection Licence

Licence - 5872

## Licence Details

Number:	5872
Anniversary Date:	09-October

## Licensee

RICHMOND VALLEY COUNCIL

LOCKED BAG 10

CASINO NSW 2470

## Premises

NAMMOONA LANDFILL FACILITY

87 DARGAVILLE DRIVE

CASINO NSW 2470

## Scheduled Activity

Resource recovery

Waste disposal (application to land)

Waste storage

## Fee Based Activity

## Scale

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

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## Information about this licence

### Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

### Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

### Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

### Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

### Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

### Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).



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The EPA publication “A Guide to Licensing” contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

## Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

## Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

## This licence is issued to:

<b>RICHMOND VALLEY COUNCIL</b>
<b>LOCKED BAG 10</b>
<b>CASINO NSW 2470</b>

subject to the conditions which follow.

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## 1 Administrative Conditions

### A1 What the licence authorises and regulates

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

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

Scheduled Activity	Fee Based Activity	Scale
Resource recovery	Recovery of general waste	Any general waste recovered
Waste disposal (application to land)	Waste disposal by application to land	Any capacity
Waste storage	Waste storage - other types of waste	Any other types of waste stored

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

A2.1 The licence applies to the following premises:

Premises Details
NAMMOONA LANDFILL FACILITY
87 DARGAVILLE DRIVE
CASINO
NSW 2470
PART LOT 2 DP 1106028
SITE AS SHOWN ON MAP TITLED "NAMMOONA WASTE FACILITY - CASINO", DRAWN BY GEORGIA MATHESON AND DATED 19/01/2021. MAP WAS SUPPLIED TO NSW ENVIRONMENT PROTECTION AUTHORITY BY RICHMOND VALLEY COUNCIL VIA E-MAIL ON 20 JANUARY 2021 (DOC21/31340).

### A3 Other activities

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

Ancillary Activity
Composting
Waste storage - hazardous, restricted solid and liquid waste

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## 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.

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 following reports submitted to the EPA are to be taken as part of the documentation referred to in condition A4.1:

(a) *Nammoona Waste & Resource Recovery Facility, Landfill Environmental Management Plan, Richmond Valley Council* dated 19 April 2021 prepared by Tonkin Consulting;

(b) *Response to EPA Queries relating to Nammoona Drive Landfill* dated 20 August 1998 and prepared by Woodward-Clyde; and

(c) *Nammoona Landfill Facility Expansion: Groundwater Investigation Report* dated October 2014 and prepared by Australian Wetlands Consulting Pty Ltd (DOC16/172850).

Note: For the purposes of this licence the abbreviation 'LEMP' is defined as the document titled *Nammoona Waste & Resource Recovery Facility, Landfill Environmental Management Plan, Richmond Valley Council* dated 19 April 2021 prepared by Tonkin Consulting.

For the purposes of this licence the abbreviation 'Groundwater Report' is defined as the document titled *Nammoona Landfill Facility Expansion: Groundwater Investigation Report* dated October 2014 and prepared by Australian Wetlands Consulting Pty Ltd.

## 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
6	Landfill gas generation monitoring		Surface monitoring around the perimeter of the premises
7	Landfill gas generation monitoring		At or below floor level inside all site buildings

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.

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

## *Water and land*

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to surface waters	Discharge to surface waters	Discharge point from sediment basin, as specified in Figure 6.1 in the LEMP and labelled as "Decant Pipe and Spillway".
2	Discharge to surface waters	Discharge to surface waters	Spillway from sedimentation basin, as specified in Figure 6.1 in the LEMP.
3	Leachate quality monitoring		In the Leachate Pond specified in Figure 6.1 in the LEMP.
4		Wet weather discharge	Decant discharge point from leachate pond, as specified in Figure 6.1 in the LEMP.
5		Wet weather discharge	Spillway discharge point from leachate pond, as specified in Figure 6.1 in the LEMP.
8	Groundwater quality monitoring		Groundwater bore shown as MB.1 as specified in Figure 6.1 in the LEMP.
9	Groundwater quality monitoring		Groundwater bore shown as MB.2 as specified in Figure 6.1 in the LEMP.
10	Groundwater quality monitoring		Groundwater bore shown as MB.3 as specified in Figure 6.1 in the LEMP.
11	Groundwater quality monitoring		Groundwater bore shown as MB.4 as specified in Figure 6.1 in the LEMP.
13	Groundwater quality monitoring		Groundwater bore shown as MB.5-B as specified in Figure 6.1 in the LEMP.
14	Surface water quality monitoring.		SW1 as specified in Figure 6.1 in the LEMP.
15	Surface water quality monitoring		SW2 as specified in Figure 6.1 in the LEMP.

## 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 Leachate is only permitted to overflow from the leachate management system as a direct result of a rainfall



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event equal to or greater than 214.3 mm over 24 hours (a 1 in 25 year 24 hour duration rainfall event) and only from Points 4 and 5.

## L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.
- L2.4 Water and/or Land Concentration Limits

### POINT 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

### POINT 2

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 The licensee is not taken to have exceeded a concentration limit specified in this licence for the discharge of Total Suspended Solids from Point 1 and/or Point 2 if:

- (a) the discharge from Point 1 and/or Point 2 occurs solely as a result of a rainfall event at the premises that is greater than 102.6 mm over 6 hours (a 1 in 10 year 6-hour duration event); and
- (b) the licensee has taken all practical measures to avoid or minimise water pollution.

## L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes

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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	Garden waste	As defined in Schedule 1 of the POEO Act, in force from time to time	Composting	Total quantity of garden waste at the premises must not exceed the relevant threshold in Schedule 1 of the POEO Act.
NA	Liquid Waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste storage	Total quantity of liquid waste stored at the premises must not exceed the relevant threshold in Schedule 1 of the POEO Act and/or the storage capacity at the Community Recycling Centre.
NA	Household hazardous waste resulting from NSW Community Recycling Centres programme	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste storage	Total quantity of household hazardous waste stored at the premises must not exceed the relevant threshold in Schedule 1 of the POEO Act and/or the storage capacity at the Community Recycling Centre.
NA	Restricted solid waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste storage	Total quantity of restricted solid waste stored at the premises must not exceed the relevant threshold in Schedule 1 of the POEO Act and/or the storage capacity at the

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				Community Recycling Centre.
NA	Concrete	As defined in Schedule 1 of the POEO Act, in force from time to time.	Resource recovery	The total quantity of concrete waste stored at the premises at any one time must not exceed 1,500 tonnes.
NA	Metal waste	As defined in Schedule 1 of the POEO Act, in force from time to time	Resource recovery	The total quantity of metal waste stored at the premises at any one time must not exceed 2,000 tonnes.
NA	General solid waste (putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	The total quantity of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
NA	General solid waste (non-putrescible)	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	The total quantity of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
NA	Asbestos waste	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land)	The total quantity of waste disposed of at the premises must not exceed 28,000 tonnes per annum.
NA	Waste tyres	As defined in Schedule 1 of the POEO Act, in force from time to time.	Waste disposal (application to land) Waste storage	The total quantity of waste disposed of at the premises must not exceed 28,000 tonnes per annum. The quantity of waste tyres stockpiled on the premises must not exceed 25 tonnes at any one time.
NA	General solid waste (non-putrescible)	Wastes assessed as General Solid Waste which are also subject to general or specific immobilisation approvals which have a	Waste disposal (application to land)	The total quantity of waste disposed of at the premises must not exceed 28,000 tonnes

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restriction that they may only be disposed of at waste disposal facilities which have currently operating leachate collection systems. per annum.

- L3.2 The maximum amount of waste disposed of at the premises must not exceed 28,000 tonnes in any year.
- L3.3 The quantity of any waste received at the premises which is to be stored in the Community Recycling Centre (CRC) does not contribute towards the waste allowed under the waste limits shown on this licence.

## L4 Noise limits

- L4.1 Noise from the premises must not exceed:
- (a) an LA10 (15 minute) noise emission criterion of 55dB(A) seven days a week from 7am to 10pm inclusive; and
  - (b) An LA10 (15 minute) noise emission criterion of 45dB(A) at all other times, except as expressly provided by this licence.
- L4.2 Noise from the premises is to be measured at any point within six metres of the nearest affected residence or other noise sensitive areas in the vicinity of the premises to determine compliance with condition L4.1. Five dB(A) must be added if the noise is tonal or impulsive in character.

## L5 Potentially offensive odour

- L5.1 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.

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## O2 Maintenance of plant and equipment

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

- O4.1 The sedimentation basin and leachate holding dams must be maintained to ensure that their design capacity is available for the storage of stormwater and leachate respectively.
- O4.2 The licensee must take all practicable steps to control entry to the premises.
- O4.3 The licensee must install and maintain lockable security gates at all access and departure locations.
- O4.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.

## O5 Waste management

- O5.1 Cover material must be virgin excavated natural materials, excavated natural material, clean earthen fill, mulched vegetation as per condition O5.3 and/or as provided by Condition O5.2
- Daily cover  
Cover material must be applied to a minimum depth of 15 centimeters over all exposed landfilled waste prior to ceasing operations at the end of each day.
  - Intermediate cover  
Cover material must be applied to a minimum depth of 30 centimeters over surfaces of the landfilled waste at the premises which are to be exposed for more than 90 days.
  - Cover material stockpile

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

- O5.2 Landfill lids may be used as daily cover under the following conditions:
- waste is effectively and completely covered at the end of each day;
  - they are used in a manner that minimises odour, dust, litter, the presence of scavengers and vermin, the risk of fire, rainfall infiltration and landfill gas emission; and
  - the cover material stockpile referred to in Condition O5.1(c) is maintained and available in case the lids cannot be used or applied
- O5.3 Mulched vegetation may be used as daily cover material only during periods of wet weather.

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- O5.4 There must be no incineration or burning of any waste at the premises.
- O5.5 The licensee must take all practical measures to prevent litter leaving the premises.
- O5.6 A leachate barrier, drainage, level-control and extraction system must be installed on each surface within the premises to be used for the disposal of waste. The type and extent of the leachate barrier system must be approved in writing by the EPA before installation. This condition does not apply to Cells 1, 2 and 3, as described in Section 4.4 of the LEMP.
- O5.7 All leachate liners and liner subgrades must be installed at least 1.0 metre above the groundwater table at its highest seasonal level.
- O5.8 The licensee must direct and collect all leachate on site to a leachate collection system.
- O5.9 Collected leachate must be stored in appropriately lined and sized dams or tanks and disposed of so as not to cause environmental harm. Any new leachate dam must be approved in writing by the EPA prior to construction
- O5.10 The licensee must take all practical measures to minimise the amount of leachate in the leachate management system to enable compliance with condition L1.1 and L1.2 of this licence.
- O5.11 Leachate collected in the leachate collection system may be irrigated onto waste filled areas of the premises, reinjected into waste filled areas of the premises and transported off-site to a facility lawfully able to receive the waste.
- O5.12 Leachate irrigation must not occur in a manner which causes surface runoff.
- O5.13 Stormwater must be diverted away from any area where waste is stored or has been landfilled.
- O5.14 Stormwater from a 24 hour rainfall event of up to 174.5 mm (a 1 in 10 year recurrence interval event of 24 hours duration) must be diverted away from any area used for irrigation of leachate.
- O5.15 Spray from leachate irrigation activity must not drift beyond the boundary of the premises.
- O5.16 The licensee must operate in accordance with the Filling Plan detailed in Appendix C of the LEMP.
- O5.17 The licensee must ensure that the landfill cells are capped progressively in accordance with NSW EPA Environmental Guidelines: Solid Waste Landfills, Second edition 2016. Installation of any new final cap must be approved in writing by the EPA prior to construction.
- O5.18 For waste Cells 1-4, the licensee must undertake capping works in accordance with the Nammoona Landfill Capping Plan Cells 1-4 prepared by GreenTec Consulting as issued on 27/09/2018 and containing Revision G - Revegetation Layer Revision (EPA document reference no. DOC18/765778).
- O5.19 Before undertaking any work on the final capping over Cells 1-4, the licensee must provide a Construction Quality Assurance Plan (CQAP) for the proposed final capping work that is consistent with the capping plan referred to in Condition O5.18 above.

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- O5.20 Within 30 days of completing the final capping over Cells 1-4, the licensee must provide a Construction Quality Assurance Report (CQAR) demonstrating consistency of the works undertaken with the CQAP.
- O5.21 The licensee must undertake all practical measures to minimise the tracking of waste and mud offsite by vehicles.

## O6 Other operating conditions

- O6.1 The licensee must install the leachate collection system/leachate barrier system/capping system at the premises in accordance with the quality assurance program HB90.3 (2000) or an alternative construction quality assurance scheme approved in writing by the EPA in advance of installation.
- O6.2 The licensee must ensure that all practical measures are taken to prevent fires occurring at the premises.
- O6.3 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, in accordance with Section 5.6 of the LEMP.
- O6.4 The sedimentation basin must be operated and maintained so as to collect and impound all surface water runoff from, or generated by, a storm event generating rainfall greater than 102.6 mm over 6 hours (a 1 in 10 year 6-hour duration event).
- O6.5 Controls must be implemented to minimise erosion and reduce sediment load of stormwater discharged from the site in accordance with section 3 of the *Environmental Guidelines: Solid Waste Landfills, Second edition 2016*.

## 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.

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## 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 6

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

#### POINT 7

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

Note: For the purposes of the table above, Special Method 1 means the collection of samples using the methodology for gas monitoring described in the Woodward-Clyde report dated 20 August 1998.

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

#### POINT 1

Pollutant	Units of measure	Frequency	Sampling Method
pH	pH	Special Frequency 2	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 2	Grab sample

#### POINT 3

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Quarterly	Grab sample
Arsenic	milligrams per litre	Quarterly	Grab sample
Bicarbonate	milligrams per litre	Quarterly	Grab sample
Calcium	milligrams per litre	Quarterly	Grab sample
Chloride	milligrams per litre	Quarterly	Grab sample
Chromium (total)	milligrams per litre	Quarterly	Grab sample
Conductivity	microsiemens per centimetre	Quarterly	Grab sample
Copper	milligrams per litre	Quarterly	Grab sample



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Dissolved organic carbon	milligrams per litre	Quarterly	Grab sample
Dissolved Oxygen	milligrams per litre	Quarterly	Grab sample
Magnesium	milligrams per litre	Quarterly	Grab sample
Nitrogen (total)	milligrams per litre	Quarterly	Grab sample
Organochlorine pesticides	milligrams per litre	Quarterly	Grab sample
Organophosphate pesticides	milligrams per litre	Quarterly	Grab sample
pH	pH	Quarterly	Grab sample
Phenols	milligrams per litre	Quarterly	Grab sample
Phosphorus	milligrams per litre	Quarterly	Grab sample
Potassium	milligrams per litre	Quarterly	Grab sample
Semi-volatile organic carbons	milligrams per litre	Quarterly	Grab sample
Sodium	milligrams per litre	Quarterly	Grab sample
Sulfate	milligrams per litre	Quarterly	Grab sample
Total dissolved solids	milligrams per litre	Quarterly	Grab sample
Total petroleum hydrocarbons	milligrams per litre	Quarterly	Grab sample
Volatile organic compounds	milligrams per litre	Quarterly	Grab sample

## POINT 8,9,10,11,13

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Every 6 months	Representative sample
Dissolved organic carbon	milligrams per litre	Every 6 months	Representative sample
Nitrate	milligrams per litre	Every 6 months	Representative sample
Nitrite	milligrams per litre	Every 6 months	Representative sample
Nitrogen (total)	milligrams per litre	Every 6 months	Representative sample
pH	pH	Every 6 months	Representative sample
Potassium	milligrams per litre	Every 6 months	Representative sample
Standing Water Level	metres (Australian Height Datum)	Every 6 months	In situ
TPH C10-C36 Fraction	micrograms per litre	Every 6 months	Representative sample

## POINT 14,15

Pollutant	Units of measure	Frequency	Sampling Method
Ammonia	milligrams per litre	Special Frequency 1	Grab sample
Arsenic	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
Chromium	milligrams per litre	Special Frequency 1	Grab sample
Conductivity	microsiemens per centimetre	Special Frequency 1	Probe

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Copper	milligrams per litre	Special Frequency 1	Grab sample
Dissolved organic carbon	milligrams per litre	Special Frequency 1	Grab sample
Dissolved Oxygen	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
pH	pH	Special Frequency 1	Probe
Potassium	milligrams per litre	Special Frequency 1	Grab sample
Redox potential	millivolts	Special Frequency 1	Probe
Sodium	milligrams per litre	Special Frequency 1	Grab sample
Sulfate	milligrams per litre	Special Frequency 1	Grab sample
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

Note: For the purposes of the table above, specific frequency 1 means the collection of samples during flow arising from each rainfall event exceeding 50mm.

M2.4 For the purposes of the above table Special Frequency 2 means taking a sample within 24 hours of a basin discharge occurring and a further sample each week if the discharge is ongoing.

## 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 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 2021* 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 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period, at the same time each day.

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## **M5 Recording of pollution complaints**

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- a) the date and time of the complaint;
  - b) the method by which the complaint was made;
  - c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
  - d) the nature of the complaint;
  - e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
  - f) if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

## **M6 Telephone complaints line**

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

## **6 Reporting Conditions**

### **R1 Annual return documents**

- R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:
1. a Statement of Compliance,
  2. a Monitoring and Complaints Summary,
  3. a Statement of Compliance - Licence Conditions,
  4. a Statement of Compliance - Load based Fee,
  5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
  6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
  7. a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee notification that the Annual Return is



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due.

- 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:
- the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
  - the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.
- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
  - in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- the licence holder; or
  - by a person approved in writing by the EPA to sign on behalf of the licence holder.

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

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.

- R2.1 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 they became aware of the incident.

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## R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- where this licence applies to premises, an event has occurred at the premises; or
  - 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:
- the cause, time and duration of the event;
  - the type, volume and concentration of every pollutant discharged as a result of the event;
  - 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;
  - 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;
  - action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
  - details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
  - 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 notifications

- R4.1 Whenever leachate discharges to surface waters or whenever leachate discharges or overflows from the leachate collection or storage system the licensee must notify the event to the EPA in accordance with condition R4.2 and R2.1.
- R4.2 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 R4.3.
- R4.3 The written details referred to in the above condition must be provided as a report. The report must include the following information:
- the volume of the leachate discharged and over what time period the discharge occurred;
  - the date and time of the commencement of the overflow;
  - the weather conditions at the time of the discharge, specifying the amount of rainfall on a daily basis that had fallen:
    - on the day(s) of the discharge; and
    - for the one week period prior to the discharge.
  - the most recent monitoring results of the chemical composition of the leachate;
  - an explanation as to why the discharge occurred;

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- 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.

## R5 Other reporting conditions

- R5.1 The licensee must maintain a daily log and record the following data of fires at the site:
- a) Time and date when the fire was deliberately started or reported.
  - b) Whether the fire was authorised by the licensee, and, if not, the circumstances which ignited the fire.
  - c) The time and date that the fire ceased and whether it burnt out or was extinguished.
  - d) The location of fire (eg. clean timber stockpile, putrescible garbage cell, etc).
  - e) Prevailing weather conditions.
  - 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.
- R5.2 The licensee or its employees or agents must notify the EPA in accordance with conditions R2.1 and R2.2 of all fires at the premises as soon as practical after becoming aware of the incident.
- R5.3 Whenever two or more of the indicator analytes in the below Table exceed the ground water investigation levels (GILs) in that Table in one sampling round required by condition M2.3, a resampling for the groundwater sampling point/s in question is to be conducted within 20 days of the results being received. If the second set of results also exceed two of the GILs a further resampling is to be conducted within 20 days of receiving the results from the second round of sampling.

If two GILs are in exceedance for all three consecutive monitoring events, the licensee must submit a report to the EPA within 30 days of receiving the third round of sampling, proposing a Groundwater Monitoring and Assessment Program to assess the extent of groundwater contamination emanating from the premises and any necessary remediation strategies or action.

POINT	Parameter	Unit of measure	Groundwater Investigation Level
8	pH	pH	5.35-9.26
	Ammonia	mg/L	2.09
	Total Nitrogen	mg/L	4.2
	Dissolved organic carbon	mg/L	69.6
	Potassium	mg/L	36.9
	Total Petroleum Hydrocarbons C10-C36 Fractions	µg/L	300
9	pH	pH	5.11-9.5
	Ammonia	mg/L	2.09
	Total Nitrogen	mg/L	3.3
	Dissolved organic carbon	mg/L	63.4
	Potassium	mg/L	9.1

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	Total Petroleum Hydrocarbons C10-C36 Fractions	µg/L	300
10	pH	pH	5.54-9.1
	Ammonia	mg/L	2.09
	Total Nitrogen	mg/L	2.3
	Dissolved organic carbon	mg/L	45.8
	Potassium	mg/L	6.9
	Total Petroleum Hydrocarbons C10-C36 Fractions	µg/L	300
11	pH	pH	4.97-10.3
	Ammonia	mg/L	2.09
	Total Nitrogen	mg/L	1.0
	Dissolved organic carbon	mg/L	92.9
	Potassium	mg/L	8.6
	Total Petroleum Hydrocarbons C10-C36 Fractions	µg/L	300
13	pH	pH	6.01-7.26
	Ammonia	mg/L	2.09
	Total Nitrogen	mg/L	2.97
	Dissolved organic carbon	mg/L	27.14
	Potassium	mg/L	8.54
	Total Petroleum Hydrocarbons C10-C36 Fractions	µg/L	300

R5.4 If gas monitoring at EPA Point 6 detects methane above 500 parts per million (v/v) and 1% (v/v) at EPA Point 7, the licensee must:

- notify the EPA within 24 hours in accordance with condition R2.1; and
- increase the frequency of monitoring to daily, until the EPA states otherwise.

## 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.



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## 8 Special Conditions

### E1 New Landfill Cell 6

- E1.1 **Cell 6 Design** The licensee must construct Cell 6 in stages in accordance with the designs, specifications, methods, and Construction Quality Assurance (CQA) Plan contained in the approved project documents.
- E1.2 **CQA Report for Cell 6** Following completion of construction of each stage of Cell 6, the licensee must submit a CQA Report to the EPA. The licensee must not deposit waste in the new sub-cell until the EPA has approved the CQA Report. Each CQA Report must contain:
- a. Details of the works installed, the testing conducted, and the quality assurance procedures implemented.
  - b. An account of any variations to the approved designs, specifications, methods and CQA Plan.
  - c. An opinion by an appropriately qualified and experienced construction quality assurance practitioner on the conformance of the works with the approved measures.
- E1.3 **Staged construction** For the purpose of this condition, the stages of construction are:
- Cell 6A lower - base liner, lower piggyback liner and new leachate pond
  - Cell 6B lower - base liner and lower piggyback liner
  - Cell 6A upper – piggyback liner vertical extension
  - Cell 6B upper – piggyback liner vertical extension
  - Cell 6C - base liner extension.
- E1.4 **Approved project documents** For the purpose of this condition, the approved project documents are:
- 'Nammoona Waste and Resource Recovery Facility, Richmond Valley Council, 14 April 2021, Tonkin Consulting', comprising the following reports:
- Cell 6 and Piggyback Liner, Leachate Pond and Surface Water Basin Design Report
  - Cell 6 and Piggyback Technical Specification
  - Cell 6 and Piggyback CQA Plan
  - Cell 6 and Associated Infrastructure Design.
- E1.5 **Base liner components** Without limiting the generality of this condition, the base liner of Cell 6 must include the following components, from bottom up:
- Compacted sub-grade
  - 300 mm engineered fill layer
  - Geosynthetic clay liner
  - 2 mm high density polyethylene geomembrane liner
  - Protection geotextile
  - 300 mm gravel drainage layer containing leachate collection pipework
  - Separation geotextile.



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- E1.6 Piggyback liner components** Without limiting the generality of this condition, the piggyback liner over existing waste cells 1-4 must include the following components, from bottom up:
- 300 mm soil layer, including pipework to collect gas from underlying waste
  - Geogrid reinforcement layer
  - 600 mm bridging layer comprised of engineered fill
  - 2 mm low density polyethylene geomembrane liner
  - Drainage geocomposite.
- E1.7 Final cap concept** The licensee must construct a final cap on Cell 6 within 6 months of completion of waste disposal in the cell. The cap must include, from bottom to surface:
- a. a 300mm thick seal bearing surface comprised of engineering material
  - b. a sealing layer in the form of EITHER a 600mm thick compacted clay sealing layer with hydraulic conductivity less than  $1 \times 10^{-9}$  m/s OR a geosynthetic equivalent
  - c. a 1000mm thick revegetation layer.
- E1.8 Final cap detailed design** At least 3 months prior to commencing construction of the cap, the licensee must submit detailed designs, specifications, methods and a CQA Plan for the works. These documents must be in accordance with the NSW Landfill Guidelines. The licensee must not commence construction until the EPA has approved the design and CQA Plan.
- E1.9 Final cap CQA Report** Following construction of the final cap, the licensee must submit a CQA Report to the EPA. The CQA Report must contain:
- a. Details of the works installed, the testing conducted, and the quality assurance procedures implemented.
  - b. An account of any variations to the approved designs, specifications, methods and CQA Plan.
  - c. An opinion by an appropriately qualified and experienced construction quality assurance practitioner on the conformance of the works with the approved measures.

## E2 Special Dictionary

- E2.1** Leachate - means liquid released by, or water that has percolated through, waste and which contains dissolved and/or suspended liquids and/or solids and/or gases.

## E3 Use of Reclaimed asphalt for road construction and repair

- E3.1** Reclaimed asphalt millings obtained from the removal of the surface layer of asphalt roads is authorised to be used for road construction and maintenance within the landfill premises, subject to the following conditions:
1. The licensee must monitor reclaimed asphalt millings received at the premises for detectable quantities of asbestos or coal tar and exclude any such material from reuse. These monitoring procedures must be documented.
  2. The licensee must ensure that the reuse of reclaimed asphalt occurs within a reasonable period of time after its receipt at the premises.
  3. Where the reclaimed asphalt is used within the confines of a landfill cell there is no requirement for the material to be covered with daily cover or intermediate cover while the landfill cell is active.



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Note: Construction and maintenance of hardstand areas where vehicles and plant operate, is included within the definition of 'road construction or maintenance'.

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## Dictionary

### General Dictionary

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

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

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<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non-putrescible), special waste or hazardous waste
<b>Wellhead</b>	Has the same meaning as in Schedule 1 to the Protection of the Environment Operations (General) Regulation 2021.

Mr Graeme Budd

Environment Protection Authority

(By Delegation)

Date of this edition: 01-December-2000

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## End Notes

- 1 Licence varied by change from LGA 1650 to 6610, issued on 24-May-2001, which came into effect on 24-May-2001.
- 2 Licence varied by notice 1020396, issued on 11-Sep-2002, which came into effect on 06-Oct-2002.
- 3 Licence varied by notice 1022328, issued on 07-Feb-2003, which came into effect on 04-Mar-2003.
- 4 Licence varied by notice 1032186, issued on 12-Dec-2003, which came into effect on 06-Jan-2004.
- 5 Licence varied by notice 1047774, issued on 14-Jun-2005, which came into effect on 09-Jul-2005.
- 6 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 7 Licence varied by notice 1097457, issued on 24-Feb-2009, which came into effect on 24-Feb-2009.
- 8 Licence varied by correction to DECCW Region data record, issued on 01-Nov-2010, which came into effect on 01-Nov-2010.
- 9 Licence varied by notice 1502815 issued on 05-Jan-2012
- 10 Licence varied by notice 1509646 issued on 15-Nov-2012
- 11 Licence varied by notice 1517819 issued on 25-Oct-2013
- 12 Licence varied by notice 1534352 issued on 06-Oct-2015
- 13 Licence varied by notice 1536679 issued on 17-Dec-2015
- 14 Licence varied by notice 1537658 issued on 16-Mar-2018
- 15 Licence varied by notice 1584354 issued on 28-Feb-2020
- 16 Licence varied by notice 1592450 issued on 06-Aug-2020
- 17 Licence varied by notice 1599610 issued on 15-Sep-2020
- 18 Licence varied by notice 1603239 issued on 07-Jan-2021
- 19 Licence varied by notice 1604984 issued on 23-Apr-2021
- 20 Licence varied by notice 1609792 issued on 02-Aug-2021
- 21 Licence varied by notice 1614630 issued on 01-Dec-2021