

# Licence Variation

Licence - 5927



SINGLETON COUNCIL,  
ABN 52 877 492 396,  
PO BOX 314,  
SINGLETON NSW 2330

Attention: Mr. BRIAN CARTER

Notice Number 1119449  
File Number LIC08/1219  
Date

## NOTICE OF VARIATION OF LICENCE NO. 5927

### BACKGROUND

- A. SINGLETON COUNCIL ("the licensee") is the holder of Environment Protection Licence No. 5927 ("the licence") issued under the *Protection of the Environment Operations Act 1997* ("the Act"). The licence authorises the carrying out of Scheduled Activity - Premises Based at DYRRING ROAD, SINGLETON, NSW.
- B. On 02-Jul-2010 the EPA received an application for the variation of the licence.
- C. The proposed licence variation included requests to:
- Amend the existing property description to refer to a recently completed site survey;
  - Amend existing monitoring point descriptions to include newly surveyed spatial data coordinates;
  - Delete points no longer operational due to an approved extension;
  - Add a replacement point for leachate quality monitoring;
  - Remove requirements related to tyres originating from the Sydney Metropolitan Area as the licensee has a local policy prohibiting the receipt of such;
  - Remove the requirement to report compaction rates in the Annual Return as the Annual Return Form does not provide for the recording of this information;
  - Remove the requirement to report the quantise of waste received each quarter;
  - Remove the requirement to undertake works to address ammonia migration into groundwater as these works have now been completed; and
  - Amend the requirement to monitor and analyse leachate generation on to extend the timeframe for report submission to 31 October 2010.

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D. The EPA has assessed the application and has approved several of the requests. Reasons for the approval/non-approval of each request are:

- Amend the existing property description to refer to a recently completed site survey; *This information has been incorporated into the Licence to provide for more accurate identification of the premises;*
- Amend existing monitoring point descriptions to include newly surveyed spatial data coordinates; *This information has been incorporated into the Licence to provide for more accurate identification of monitoring points.*
- Delete points no longer operational due to an approved extension; *The decommissioning of these points has been the result of approved work undertaken at the landfill.*
- Add a replacement point for leachate quality monitoring; Amend existing monitoring point descriptions to include newly surveyed spatial data coordinates; *The new point has been incorporated into the Licence to ensure appropriate monitoring of leachate quality.*
- Remove requirements related to tyres originating from the Sydney Metropolitan Area as the licensee has a local policy prohibiting the receipt of such; *This request has not been approved as the condition is a standard condition on all Landfill licences and is required to ensure appropriate management of tyres should they be received.*
- Remove the requirement to report compaction rates in the Annual Return as the Annual Return Form does not provide for the recording of this information; *This request has not been approved as the information is required by the EPA and should be included as an attachment to the Annual Return.*
- Remove the requirement to report the quantise of waste received each quarter; *This request has been approved as it has been superseded by s13 of the Protection of the Environment (Waste) Regulation.*
- Remove the requirement to undertake works to address ammonia migration into groundwater as these works have now been completed; *This request has been approved as the works have been completed.*
- Amend the requirement to monitor and analyse leachate generation on to extend the timeframe for report submission to 31 October 2010. *This request has been approved, however a new condition outlining current requirements for a Water Balance Report has been included as a replacement for the existing condition.*

## VARIATION OF LICENCE NO. 5927

1. By this notice the EPA varies licence No. 5927 as set out in the attached document. This document contains a copy of the provisions of the licence marked with the variations that are made to it by this notice.
2. The variations to the licence are indicated in the following way:
  - if a strike through mark appears through any word or other text (eg. ~~Solids or~~) this indicates that the word or other text is deleted from the licence by this notice; and
  - if a underline appears under any word or other text (eg. must be treated) this indicates that the word or other text is added to the licence by this notice.

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(by Delegation)

## INFORMATION ABOUT THIS NOTICE

- This notice is issued under section 58(5) of the Act.
- Details provided in this notice, along with an updated version of the licence, will be available on the EPA's Public Register (<http://www.environment.nsw.gov.au/prpoeo/index.htm>) in accordance with section 308 of the Act.

## Appeals against this decision

- You can appeal to the Land and Environment Court against this decision. The deadline for lodging the appeal is 21 days after you were given notice of this decision.

## When this notice begins to operate

- The variations to the licence specified in this notice begin to operate immediately from the date of this notice, unless another date is specified in this notice.
- If an appeal is made against this decision to vary the licence and the Land and Environment Court directs that the decision is stayed the decision does not operate until the stay ceases to have effect or the Land and Environment Court confirms the decision or the appeal is withdrawn (whichever occurs first).

# Environment Protection Licence

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Environment,  
Climate Change  
& Water

## Licence Details

|                   |             |
|-------------------|-------------|
| Number:           | 5927        |
| Anniversary Date: | 13-October  |
| Review Due Date:  | 11-Jun-2013 |

## Licensee

SINGLETON COUNCIL  
PO BOX 314  
SINGLETON NSW 2330

## Licence Type

Premises

## Premises

SINGLETON WASTE DEPOT  
DYRRING ROAD  
SINGLETON NSW 2330

## Scheduled Activity

Waste disposal (application to land)

## Fee Based Activity

Waste disposal (application to land)

## Scale

0 - All

## Region

Waste Ops Operations Newcastle Compliance Team  
Ground Floor, NSW Govt Offices, 117 Bull Street 59-61 Goulburn  
Street  
NEWCASTLE WEST NSW 2302 SYDNEY NSW 2000  
Phone: 02 4908 6800 9995 5000  
Fax: 02 4908 6810 9995 5999  
PO Box 488 C NEWCASTLE PO Box A290 SYDNEY SOUTH  
NSW 2300 1232

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## Information about this licence

### Dictionary

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

### Responsibilities of licensee

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

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act); and
- 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).

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees.

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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>SINGLETON COUNCIL</b>  |
| <b>PO BOX 314</b>         |
| <b>SINGLETON NSW 2330</b> |

subject to the conditions which follow.

## 1 Administrative conditions

### A1 What the licence authorises and regulates

A1.1 Not applicable.

A1.2 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

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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                   |
|--------------------------------------|
| Waste disposal (application to land) |

| Fee Based Activity                   | Scale   |
|--------------------------------------|---------|
| Waste disposal (application to land) | 0 - All |

A1.3 Not applicable.

## A2 Premises to which this licence applies

A2.1 The licence applies to the following premises:

| Premises Details                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SINGLETON WASTE DEPOT                                                                                                                                                                                                          |
| DYRRING ROAD                                                                                                                                                                                                                   |
| SINGLETON                                                                                                                                                                                                                      |
| NSW                                                                                                                                                                                                                            |
| 2330                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                |
|                                                                                                                                                                                                                                |
| The area highlighted on the plan titled "Singleton Waste Depot Premises <del>Detail</del> Boundary & Monitoring Points" dated <del>March 2006</del> April 2010 and submitted to the EPA on <del>3 April 2006</del> 2 July 2010 |

## A3 Other activities

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A3.1 Not applicable.

## 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.

A5 The Singleton Landfill "Landfill Environmental Management Plan - February 1998" is not to 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 Not applicable.

P1.2 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

P1.3 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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## Water and land

| EPA identification no. | Type of monitoring point                                                                                     | Type of discharge point | Description of location                                                                                                                                                                                                                                                                                                                                            |
|------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1                      | Groundwater Water<br>Quality Monitoring Point                                                                |                         | Point MW3 on Figure 6-1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW3 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331486 Northing 6396580            |
| 2                      | Groundwater Water<br>Quality Monitoring Point                                                                |                         | Point MW4 on Figure 6-1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW4 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331486 Northing 6396849            |
| 3                      | Surface Water<br>Runoff/Leachate Holding<br>Pond Monitoring<br>Point Groundwater quality<br>monitoring point |                         | leachate cut off dam on Figure 6-1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW5 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331410 Northing 6396849 |

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| EPA identification no. | Type of monitoring point                               | Type of discharge point | Description of location                                                                                                                                                                                                                                                                                                                                 |
|------------------------|--------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4                      | Landfill leachate Groundwater quality monitoring point |                         | Point MW2A on Figure 6.1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW5 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331655 Northing 639568 |
| 5                      | Groundwater quality monitoring point                   |                         | Point MW5 on Figure 6.1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW7 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331548 Northing 6395852 |
| 6                      | Groundwater quality monitoring point                   |                         | Point MW6 on Figure 6.3 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW8 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331902 Northing 6397337 |

| EPA identification no. | Type of monitoring point                               | Type of discharge point | Description of location                                                                                                                                                                                                                                                                                                                                 |
|------------------------|--------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 79                     | Groundwater Landfill leachate quality monitoring point |                         | Point MW7 on Figure 6.1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002. Point MW9 on plan titled "Singleton Waste Depot Premises Boundary & Monitoring Points" dated April 2010 and submitted to the EPA on 2 July 2010. Easting 331521 Northing 6395889 |
| 8                      | Groundwater quality monitoring point                   |                         | Point MW8 on Figure 6.1 of the document "Extension of Singleton Council Landfill - Environmental Impact Statement" prepared by GHD Consultants and dated October 2002.                                                                                                                                                                                  |

## 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 Load limits

L2.1 Not applicable.

L2.2 Not applicable.

### L3 Concentration limits

L3.1 Not applicable.

L3.2 Not applicable.

L3.3 Not applicable.

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## L4 Volume and mass limits

L4.1 Not applicable.

## L5 Waste

L5.1 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.

Condition L5.1 does not limit any other conditions in this licence.

| Code | Waste                                 | Description                                                                                                                | Activity                             | Other Limits                                                                                                                                                                                  |
|------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NA   | General Solid Waste (non-putrescible) | As defined in Schedule 1 of the POEO Act, in force from time to time.                                                      | Waste Disposal (application to land) | The total combined tonnage of General Solid Waste (non-putrescible), General Solid Waste (putrescible) and Asbestos Waste disposed of at the premises must not exceed 30000 tonnes/per annum. |
| 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) |                                                                                                                                                                                               |
| NA   | Asbestos Waste                        | As defined in Schedule 1 of the POEO Act, in force from time to time.                                                      | Waste Disposal (application to land) |                                                                                                                                                                                               |
| NA   |                                       | 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                                                                                                                                                                                            |

## L6 Noise Limits

L6.1 Noise generated by the premises must not exceed:

(a) 41 dB(A)  $L_{Aeq(15 \text{ minute})}$  during the day (7am to 6pm Monday to Friday and 8:00am to 6:00pm on Saturday and Sunday).

at all affected residential receivers which are not owned by the licensee.

Where  $L_{Aeq}$  means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period.

L6.2 To determine compliance with condition L6.1 noise must be measured at the most affected point on or within the residential boundary or at the most affected point within 30m of the dwelling (rural dwellings) where the dwelling is more than 30m from the boundary.

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A modifying factor correction must be applied for tonal, impulsive or intermittent noise in accordance with the "Environmental Noise Management - NSW Industrial Noise Policy (January 2000)".

- L6.3 The noise emission limits identified in this licence apply under all meteorological conditions except:
- (a) during rain and wind speeds (at 10m height) greater than 3m/s; and
  - (b) under "non-significant weather conditions".

Note: Field meteorological indicators for non-significant weather conditions are described in the NSW Industrial Noise Policy, Chapter 5 and Appendix E in relation to wind and temperature inversions.

## L7 Potentially offensive odour

- L7.1 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.

## L8 Hours of operation

- L8.1 All landfilling and associated activities at the premises must only be conducted between 7:00am and 6:00pm Monday to Friday and 8:00am and 6:00pm on Saturdays and Sundays.

# 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 Control**

- 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 Tyre Storage and Disposal**

- O4.1 The total quantity of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) stockpiled at the premises must not exceed 50 tonnes.
- O4.2 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are located in a clearly defined area.
- O4.3 The licensee must ensure that stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) are managed so as not to cause or to be likely to cause the spread of disease by vermin.
- O4.4 The licensee must ensure that measures are taken to prevent stockpiles of used, rejected or unwanted tyres (including shredded tyres and tyre pieces) from catching on fire.
- O4.5 The licensee must not dispose of any tyres on the premises which;
- (a) have a diameter of less than 1.2 metres; and
  - (b) are delivered at the premises in a load containing more than 5 whole tyres; and
  - (c) became waste in the Sydney Metropolitan Area.
- O4.6 Tyres from the Sydney Metropolitan Area must not be received at the premises unless:
- (a) they have been shredded into pieces measuring no more than 250mm in any direction; or
  - (b) they have had their walls removed; or
  - (c) the facility has the capacity, at the time of receiving the tyres, to recycle or reprocess the tyres into a saleable product (including retreading the tyres); or
  - (d) the facility has the capacity, at the time of receiving the tyres, to shred the tyres or remove the walls from the tyres; or
  - (e) the tyres are from a domestic load containing no more than 5 tyres having a diameter of less than 1.2 metres.

## **O5 Leachate management**

- O5.1 A leachate barrier must be installed on each surface within the premises to be used for the disposal of waste.
- O5.2 The leachate barrier system must be installed above the groundwater table.

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- O5.3 Surface drainage must be diverted away from any area where waste is being or has been landfilled.
- O5.4 A leachate barrier system must be installed on each surface within the premises to be used for the storage of leachate.
- O5.5 The leachate level in the leachate sump(s) in the landfill extension areas and Stage 3 trench area must not rise above 300mm from the base of the sumps.

## **O6 Maintenance of leachate holding ponds**

- O6.1 The leachate holding ponds must be maintained to ensure that their design capacity is available for the storage of leachate.

## **O7 Management of surface waters**

- O7.1 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 10 year 24 hour duration storm event .
- O7.2 The drainage from all areas at the premises which will liberate suspended solids when stormwater runs over these areas must be diverted into sedimentation basins .

## **O8 Incineration or open burning**

- O8.1 There must be no incineration or burning of any waste at the premises.

## **O9 Screening of waste**

- O9.1 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.

## **O10 Waste compaction**

- O10.1 The licensee must ensure that the estimated compaction rate of landfilled waste (excluding cover material) is stated in the annual report for the waste premises submitted to the EPA.

## **O11 Filling plan**

- O11.1 The licensee must manage the disposal of waste at the premises in accordance with the progressive filling plan identified in the LEMP.

## **O12 Completion of landfill cells**

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- O12.1 The licensee must ensure that the landfill cells are capped progressively during operations and specifically at times when the level of waste reaches final heights as detailed in the LEMP.

## O13 Unauthorised entry

- O13.1 The licensee must take all practicable steps to control entry to the premises.
- O13.2 The licensee must maintain a high wire mesh fence of not less than 1.8 metres around the active tipping area.
- O13.3 The licensee must maintain lockable security gates at all access and departure locations.
- O13.4 The licensee must ensure that all gates are locked whenever the landfill is unattended.

## O14 Tracking of mud and waste

- O14.1 The licensee must minimise the tracking of waste and mud by vehicles in accordance with the LEMP.

## O15 Covering of waste

- O15.1 Cover material must be virgin excavated natural materials or other material as approved by the EPA.
- (a) Daily cover  
Cover material must be applied to a minimum depth of 10 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 to a minimum depth of 10-15cm 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.

## O16 Control of pests, vermin and weeds

- O16.1 The licensee must control pests, vermin and weeds at the premises in accordance with the LEMP.

## O17 Fire extinguishment

- O17.1 The licensee must extinguish fires at the premises as soon as possible.

## O18 Fire fighting capability

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O18.1 The licensee must have adequate fire prevention measures in place, and ensure that facility personnel are able to access fire-fighting equipment and manage fire outbreaks at any part of the premises in accordance with the LEMP.

## O19 Staff training

O19.1 The licensee must ensure that adequately trained staff are available at the premises in order to administer the requirements of this licence.

## O20 Operation of cut-off trenches

O20.1 The licensee must install and operate a cut-off trench to intercept contaminated groundwater.

O20.2 The licensee must manage contaminated groundwater collected by the cut-off trench in the same manner as leachate.

# 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 must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

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## Water and Land

### POINT 1

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polynuclear aromatic hydrocarbons | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Yearly    | Grab sample     |

### POINT 2

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| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Quarterly | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Quarterly | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Quarterly | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Quarterly | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Quarterly | Grab sample     |
| Phenols                           | micrograms per litre        | Quarterly | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Quarterly | Grab sample     |
| Potassium                         | milligrams per litre        | Quarterly | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Quarterly | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Quarterly | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Quarterly | Grab sample     |

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## POINT 3

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Quarterly | Grab sample     |
| BOD                               | milligrams per litre        | Quarterly | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Quarterly | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Quarterly | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Quarterly | Grab sample     |
| Phenols                           | micrograms per litre        | Quarterly | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Quarterly | Grab sample     |
| Potassium                         | milligrams per litre        | Quarterly | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Quarterly | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Quarterly | Grab sample     |
| Total suspended solids            | milligrams per litre        | Quarterly | Grab sample     |
| pH                                | pH                          | Quarterly | Grab sample     |

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## POINT 4

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chlorinated volatile compounds    | micrograms per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Organochlorine pesticides         | micrograms per litre        | Yearly    | Grab sample     |
| Organophosphate pesticides        | micrograms per litre        | Yearly    | Grab sample     |
| PCBs                              | micrograms per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |

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| Pollutant | Units of measure     | Frequency | Sampling Method |
|-----------|----------------------|-----------|-----------------|
| Zinc      | milligrams per litre | Yearly    | Grab sample     |
| pH        | pH                   | Yearly    | Grab sample     |

## POINT 5

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Quarterly | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Quarterly | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Quarterly | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Quarterly | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Quarterly | Grab sample     |
| Phenols                           | micrograms per litre        | Quarterly | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Quarterly | Grab sample     |
| Potassium                         | milligrams per litre        | Quarterly | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Quarterly | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Quarterly | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Quarterly | Grab sample     |

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## POINT 6

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Yearly    | Grab sample     |

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## POINT 7

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Yearly    | Grab sample     |

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## POINT 8

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Biochemical oxygen demand         | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total Iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |
| Zinc                              | milligrams per litre        | Yearly    | Grab sample     |
| pH                                | pH                          | Yearly    | Grab sample     |

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## POINT 9

| Pollutant                         | Units of measure            | Frequency | Sampling Method |
|-----------------------------------|-----------------------------|-----------|-----------------|
| Alkalinity (as calcium carbonate) | milligrams per litre        | Yearly    | Grab sample     |
| Aluminium                         | milligrams per litre        | Yearly    | Grab sample     |
| Arsenic                           | milligrams per litre        | Yearly    | Grab sample     |
| BOD                               | milligrams per litre        | Yearly    | Grab sample     |
| Barium                            | milligrams per litre        | Yearly    | Grab sample     |
| Cadmium                           | milligrams per litre        | Yearly    | Grab sample     |
| Calcium                           | milligrams per litre        | Yearly    | Grab sample     |
| Chloride                          | milligrams per litre        | Yearly    | Grab sample     |
| Chlorinated volatile compounds    | micrograms per litre        | Yearly    | Grab sample     |
| Chromium (hexavalent)             | milligrams per litre        | Yearly    | Grab sample     |
| Chromium (total)                  | milligrams per litre        | Yearly    | Grab sample     |
| Conductivity                      | microsiemens per centimetre | Yearly    | Grab sample     |
| Copper                            | milligrams per litre        | Yearly    | Grab sample     |
| Fluoride                          | milligrams per litre        | Yearly    | Grab sample     |
| Lead                              | milligrams per litre        | Yearly    | Grab sample     |
| Magnesium                         | milligrams per litre        | Yearly    | Grab sample     |
| Mercury                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrate                           | milligrams per litre        | Yearly    | Grab sample     |
| Nitrogen (ammonia)                | milligrams per litre        | Yearly    | Grab sample     |
| Organochlorine pesticides         | micrograms per litre        | Yearly    | Grab sample     |
| Organophosphate pesticides        | micrograms per litre        | Yearly    | Grab sample     |
| PCBs                              | micrograms per litre        | Yearly    | Grab sample     |
| Phenols                           | micrograms per litre        | Yearly    | Grab sample     |
| Polycyclic aromatic hydrocarbons  | micrograms per litre        | Yearly    | Grab sample     |
| Potassium                         | milligrams per litre        | Yearly    | Grab sample     |
| Sodium                            | milligrams per litre        | Yearly    | Grab sample     |
| Sulfate                           | milligrams per litre        | Yearly    | Grab sample     |
| Total iron                        | milligrams per litre        | Yearly    | Grab sample     |
| Total dissolved solids            | milligrams per litre        | Yearly    | Grab sample     |
| Total manganese                   | milligrams per litre        | Yearly    | Grab sample     |
| Total organic carbon              | milligrams per litre        | Yearly    | Grab sample     |
| Total petroleum hydrocarbons      | micrograms per litre        | Yearly    | Grab sample     |

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| Pollutant | Units of measure     | Frequency | Sampling Method |
|-----------|----------------------|-----------|-----------------|
| Zinc      | milligrams per litre | Yearly    | Grab sample     |
| pH        | pH                   | Yearly    | Grab sample     |

## M3 Testing methods - concentration limits

M3.1 Not applicable.

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.

## 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:

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

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- M5.3 Conditions M5.1 and M5.2 do not apply until 3 months after:
- (a) the date of the issue of this licence or
  - (b) if this licence is a replacement licence within the meaning of the Protection of the Environment Operations (Savings and Transitional) Regulation 1998, the date on which a copy of the licence was served on the licensee under clause 10 of that regulation.

## M6 Requirement to monitor volume or mass

M6.1 Not applicable.

M6.2 Not applicable.

## M7 Gas Monitoring

- M7.1 A gas monitoring program must be implemented which will demonstrate that landfill gas that may pose an explosive hazard is not migrating from the facility

# 6 Reporting conditions

## R1 Annual return documents

### What documents must an Annual Return contain?

- 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.
- A copy of the form in which the Annual Return must be supplied to the EPA accompanies this licence. Before 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.

### Period covered by Annual Return

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

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

- R1.3 Where this licence is transferred from the licensee to a new licensee:
- (a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
  - (b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

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

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

## **Deadline for Annual Return**

- 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').

## **Notification where actual load can not be calculated**

- R1.6** Not applicable.

## **Licensee must retain copy of Annual Return**

- R1.7** 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.

## **Certifying of Statement of Compliance and signing of Monitoring and Complaints Summary**

- R1.8** 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.
- R1.9** A person who has been given written approval to certify a certificate of compliance under a licence issued under the Pollution Control Act 1970 is taken to be approved for the purpose of this condition until the date of first review of this licence.

## **R2 Notification of environmental harm**

**Note:** The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable 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 the incident occurred.

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## R3 Written report

- R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:
- (a) where this licence applies to premises, an event has occurred at the premises; or
  - (b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence,
- and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.
- R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.
- R3.3 The request may require a report which includes any or all of the following information:
- (a) the cause, time and duration of the event;
  - (b) the type, volume and concentration of every pollutant discharged as a result of the event;
  - (c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
  - (d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
  - (e) action taken by the licensee in relation to the event, including any follow-up contact with any 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 Recording of fires

- R4.1 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.
- R4.2 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 ~~Waste recording~~ **Detection of Groundwater Pollution**

R5.1 ~~The licensee must provide the EPA with information on the quantity of waste received at the facility and the quantity of waste transported from the facility each quarter. The information in respect of a particular quarter is to be provided on the approved Form WISQTR.1 and must be received by the EPA within 60 days of the end of that quarter.~~

~~For the purposes of this condition each of the following periods is a quarter:~~

~~(Quarter 1) 1 January – 31 March~~

~~(Quarter 2) 1 April – 30 June~~

~~(Quarter 3) 1 July – 30 September~~

~~(Quarter 4) 1 October – 31 December~~

## ~~R6~~ **Detection of Groundwater Pollution**

~~R6.1~~ Further investigation of possible groundwater contamination by leachate must be undertaken if the threshold values prescribed in the table below are exceeded for one or more of the parameters listed in the table below.

| <i>Leachate Indicator Parameter</i> | <i>Threshold Value</i> |                |
|-------------------------------------|------------------------|----------------|
|                                     | <b>Point 2</b>         | <b>Point 5</b> |
| Ammonia                             | 2.8 mg/L               | 1.3 mg/L       |
| Total Detected PAH's                | 8 µg/L                 | 8 µg/L         |
| Benzene                             | 5 µg/L                 | 5 µg/L         |
| o-xylene                            | 5 µg/L                 | 5 µg/L         |
| p-xylene                            | 5 µg/L                 | 5 µg/L         |
| Phenol                              | 320 µg/L               | 320 µg/L       |
| Nitrate                             | 70 µg/L                | 480 µg/L       |
| Potassium                           | 82 mg/L                | 48 mg/L        |
| Total Organic Carbon                | 79 mg/L                | 43 mg/L        |

~~R6~~ ~~R5~~ 2 For the purposes of Condition R6.1 the following investigations must be taken if any threshold value for a leachate indicator parameter is exceeded:

- Levels of all other leachate indicator parameters must be assessed to determine whether there has been a significant increase in one or more leachate indicator parameters. If only one parameter has exceeded the threshold value this fact must be reported to the EPA within 28 days of the result becoming known and routine monitoring must continue and further assessment must be undertaken following the next monitoring round.
- If the assessment described in (a) above shows that there has been an increase in the levels of multiple leachate indicator parameters, then re-sampling of the site(s) must be undertaken within 14 days to confirm the presence of leachate indicator parameters at levels above the threshold values. If results of the re-sampling do not detect elevated levels of the leachate indicator parameters, this fact must be reported to the EPA within 28 days of the result

becoming known. Routine monitoring must continue and further assessment must be undertaken following the next monitoring round.

- (c) Should the result of the additional sampling indicated in (b) above confirm the presence of multiple leachate indicator parameters in excess of the threshold levels, then an investigation must commence to determine the source and pathway of the contamination. The EPA must be notified within twenty eight (28) days of the results becoming known and be provided with a groundwater assessment plan which identifies the specific contaminants and the extent of pollution of groundwater and must include recommendations for the remediation of contaminated groundwater.

## General conditions

### G1 Copy of licence kept at the premises

- 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.

## Pollution studies and reduction programs

### ~~U1 Prevention of Migration of Ammonia in Groundwater—Monitoring Point 2~~

#### ~~U1 Water Balance Report~~

U1.1 The licensee must ~~undertake works~~ ~~submit~~ to ~~prevent the migration of leachate to groundwaters downstream of~~ ~~EPA by 31 October 2011 a Water Balance Report for the current landfill area. These works should include but need not be limited to the installation of leachate drainage works to allow the collection of leachate by the leachate cut-off dam and pumping system which would also result in a reduction of the hydraulic head of leachate within the current landfill area.~~ ~~premises.~~

~~The Water Balance Report must include the following information:~~

- ~~a) Provide records of actual rainfall, evaporation rate and the volume of leachate stored at the premises over between 1 October 2010 and 30 September 2011.~~
- ~~b) The volume of leachate transferred from any landfill cells at the premises to any leachate storage dam between 1 October 2010 and 30 September 2011.~~

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- c) The volume of water added to any leachate storage facility at the premises by direct rainfall between 1 October 2010 and 30 September 2011 (based on actual rainfall during that period).
- d) The volume of leachate transported off the premises for disposal between 1 October 2010 and 30 September 2011.
- e) An estimate of the volume of leachate lost to evaporation at the premises between 1 October 2010 and 30 September 2011 either by evaporation from the surface of any leachate storage facility on the premises or by evaporation of leachate irrigated over the tip face or completed landfill cells.
- f) Based on the information provided in a) to e) above, the report must provide an estimate of the total volume of leachate generated from the landfill cells at the premises and also present this volume as a percentage of monthly rainfall; and
- g) Based on the information provided in f) above, the report must provide a determination as to whether any leachate storage facilities installed at the premises have sufficient capacity to contain leachate generated in any landfill cells constructed at the premises during a 90<sup>th</sup> percentile wet year (and assuming a leachate head of less than 300 millimetres is maintained in the landfill cells at all times).

These works must be completed by no later than 31 December 2006.

**Note:** For the purposes of the preparation of the Water Balance Report, monitoring of rainfall and evaporation rate may be based on data collected by a weather station nearest to the premises which is operated by the Australian Bureau of Meteorology.

## Special conditions

### E1 SCHEDULED DEVELOPMENT WORKS

The following Scheduled Development Works conditions relate to works and activities described in and approved by Development Consent 82/2003 for the Singleton Landfill Extension.

- E1.1 The compacted clay barriers in trench area 3 and the landfill extension area (as described in development application 82/2003) must be on 900mm minimal thickness and have an in-situ coefficient of permeability less than  $10^{-9}$  m/s.
- E1.2 The compacted clay barriers in trench area 3 and the landfill extension areas must have transverse gradients of greater than three percent and longitudinal gradients of greater than one percent.
- E1.3 The leachate drainage layer in the landfill extension area must be constructed in accordance with Figure 4.7 of the LEMP contained within the document "Singleton Council - Extension of Singleton Council Landfill Environmental Impact Statement Volume 2 – Appendices" prepared by GHD Consultants and dated October 2002. The gravel drainage media in the drainage layer must be rounded, smooth surfaced, non-reactive in mildly acidic conditions, free of carbonates, of grain size greater than 20mm and have an in-site coefficient of permeability greater than  $1 \times 10^{-3}$  m/s. Crushed building and demolition waste, or other alternative media, may only be used if the applicant has prior written approval from the EPA.

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- E1.4 The slotted UPVC drainage pipes within the leachate drainage layer in the landfill extension area must be placed at intervals not greater than 50m.
- E1.5 All leachate storage dams must be lined with a barrier that has a leakage rate less than or equal to 1150 litres/hectare/day.
- E1.6 Pump interlock systems must be installed on all leachate storage dams. The systems must be configured such that any pump transferring leachate to a dam is automatically shut down when the freeboard in the dam is reduced to 300mm.

~~E1.7 The licensee must monitor and record the volume of leachate generated and the volume of leachate disposed of, and correlate this data with local recorded rainfall for 12 months commencing 1 January 2007. The licensee must submit a report to the EPA by no later than 31 March 2008 to confirm whether or not (as a result of this correlation), it appears likely that the leachate storage and disposal system (the system) may not be adequate to manage the leachate generated from the 10% AEP wet year. The written report must provide details of any inadequacies, as well as details of proposed measures to be implemented and/or proposed upgrades to the system, to ensure that it will be adequate to manage the leachate generated by the 10% AEP wet year.~~

## Dictionary

### General Dictionary

In this licence, unless the contrary is indicated, the terms below have the following meanings:

|                                                    |                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 1998                                                                                                                                                                                                                                                                            |
| <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 1998                                                                                                                                                                                                                                                                            |
| <b>assessable pollutants</b>                       | Has the same meaning as in the Protection of the Environment Operations (General) Regulation 1998                                                                                                                                                                                                                                                                            |
| <b>BOD</b>                                         | Means biochemical oxygen demand                                                                                                                                                                                                                                                                                                                                              |

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|                                                                      |                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 1998.                                                                                                                                                                   |
| <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 (non-putrescible)</b>                         | Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997                                                                                                                                                                                         |
| <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 1998                                                                                                                                                                                                |
| <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</b>                                           | Has the same meaning as in the Protection of the Environment Operations Act 1997                                                                                                                                                                                                                 |

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[or water pollution]

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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> .                                                                                                                                                                                                                                                |
| <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                                                                                                                                                                                                                                                                         |

Mr Mitchell Bennett

Environment Protection Authority

(By Delegation)

Date of this edition - 28-Jun-2010



## End Notes

|    |                                                                                                                        |
|----|------------------------------------------------------------------------------------------------------------------------|
| 1  | Licence varied by notice 1002424, issued on 13-Nov-2000, which came into effect on 08-Dec-2000.                        |
| 2  | Licence varied by notice 1005707, issued on 06-Jun-2001, which came into effect on 01-Jul-2001.                        |
| 3  | Licence varied by notice 1011592, issued on 11-Oct-2001, which came into effect on 05-Nov-2001.                        |
| 4  | Licence varied by notice 1014594, issued on 23-Apr-2002, which came into effect on 18-May-2002.                        |
| 5  | Licence varied by notice 1027735, issued on 11-Jun-2003, which came into effect on 06-Jul-2003.                        |
| 6  | Licence varied by notice 1035412, issued on 03-May-2004, which came into effect on 28-May-2004.                        |
| 7  | Licence varied by notice 1045020, issued on 03-May-2005, which came into effect on 28-May-2005.                        |
| 8  | Licence varied by notice 1054160, issued on 04-May-2006, which came into effect on 04-May-2006.                        |
| 9  | Licence varied by notice 1084447, issued on 18-Jun-2008, which came into effect on 18-Jun-2008.                        |
| 10 | Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>       |
| 11 | Licence varied by notice 1097235, issued on 26-Feb-2009, which came into effect on 26-Feb-2009.                        |
| 12 | Licence varied by change to DECCW region, issued on 04-Dec-2009, which came into effect on 04-Dec-2009.                |
| 13 | Licence varied by Correction to EPA Region data record., issued on 28-Jun-2010, which came into effect on 28-Jun-2010. |