

**Our Ref:  
6887**

27/02/2025

Application to amend existing  
Environmental Authority – ERA  
60 Waste Disposal - BRID0056  
– Condition P7-A20 & P7-WT4

Caloundra Landfill, 171 Pierce  
Avenue, Bells Creek, QLD 4551

Client: Sunshine Coast Council

**Future-Plus Environmental (Sunshine Coast)**  
4/40 Technology Drive, Warana QLD 4575

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Signed on behalf of  
**Future-Plus Environmental**

Date: 27 February 2025



**Paul Wood**  
Director

**DOCUMENT CONTROL INFORMATION****Project Number:** 6887-250123-0.1**Project Manager:** Paul Wood**Client:** Michelle Walker, Sunshine Coast Council**Report Title:** Application to amend existing Environmental Authority – ERA 60 Waste Disposal - BRID0056 – Condition P7-A20 and P7-WT4**Project Summary:** An application seeking to remove from EA BRID0056 condition P7-A20 comprising prescriptive conditions for operation of the gas flare, and condition P7-WT4 given the Transitional Environmental Program has been finalised, at Caloundra Landfill.**Site Address:** 171 Pierce Avenue, Bells Creek QLD 4551**Document Review**

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## 1.0 INTRODUCTION

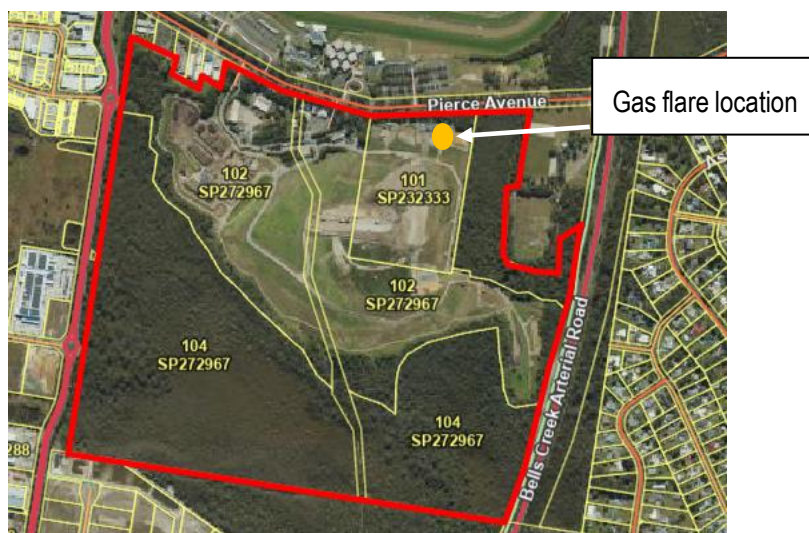
### 1.1 BACKGROUND

This report has been prepared by Future-Plus Environmental (FPE) as a supporting document for an application to the Department of Environment, Tourism, Science and Innovation (DETSI) for an amendment to the existing Environmental Authority (EA) BRID0056 held by Sunshine Coast Council (SCC) for Caloundra Landfill located on Lot 101 on SP232333, Lot 102 on SP272967 and Lot 104 on SP272967 at 171 Pierce Avenue, Bells Creek, QLD 4551, refer to **Figure 1**. The amendment relates to the landfill gas flare, and the previously finalised Transitional Environmental Program (TEP) at Caloundra Landfill. The location of the landfill gas flare is indicated in **Figure 1**.

The existing EA was approved by DESI on 04 October 2024 and relates to the following environmentally relevant activities (ERA):

- ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only
- ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (c) more than 100,000t but not more than 200,000t; and
- ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste

A copy of the existing EA document is included as **Appendix A**.



**Figure 1. Site Locality Plan (Source: QLD Globe, 2025)**

## 2.0 PROPOSED AMENDMENT AND JUSTIFICATION

### 2.1 EXISTING EA CONDITION P7-A20

SCC are seeking for DETSI to amend condition P7-A20 and P7-WT 4 of EA BRID0056 from the EA. The existing conditions are provided in **Table 1** below.

**Table 1: Condition to be Amended**

| Condition Number           | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P7-A20                     | The flare must be constructed with a release height not less than six (6) metres above ground level and must be operated in such a way that the temperature for the combustion of gas by the flare is at least 980°C.                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P7-WT4<br>(previously CC4) | <p>A transitional environmental program must be submitted to the administering authority to transition existing site controls to achieve the performance outcomes described in P7-WT3 above. The transitional environmental program must:</p> <ol style="list-style-type: none"> <li>1. be for no longer than 3 years; and</li> <li>2. include a monitoring program to demonstrate the achievement of P7-WT3 above; and</li> <li>3. identify action for the promotion of best practice site erosion protection measures and sediment control measures to the broader urban development and infrastructure development community.</li> </ol> |

### 2.2 PROPOSED CHANGE

SCC seeks to amend condition P7-A20 of EA BRID0056. Specifically, Council seek to remove the condition entirely. Where this is not agreed with DETSI, Council seek to reduce the gas flare combustion temperature from 980°C to 760°C.

SCC also seeks to remove condition P7-WT4 requiring a TEP in its entirety.

## 2.3 JUSTIFICATION

### 2.3.1 Justification for P7-A20

The proposed amendment is supported by the following:

1. The condition is not in accordance with the *Model Operating Conditions ERA 60-Waste Disposal* (Model Operating Condition, DES, 2017) relating to air.

Conditions relating to flaring of landfill gas in the Model Operating Conditions are limited to condition PMA003 (A3)(4) which states:

***Landfill gas collected is reused or efficiently flared in a manner that avoids environmental harm.***

Prescriptive conditions, including that related to the temperature of the combustion of landfill gas, are not included in the Model Operating Conditions.

2. The EA (EPPR01855314) for the nearest Council landfill operating an ERA 60-Waste Disposal that includes flaring of landfill gas (Noosa Councils Eumundi Road Landfill located at Lot 77 on SP298776, 561 Eumundi Noosa Road, Doonan) includes the Model Operating Condition PMA003 (A3)(4) only, and no other prescriptive conditions pertinent to gas flare operation. In the Noosa Council Landfill EA (EPPR01855314), condition A7 prescribes details to flaring of landfill gas, and a copy of that EA is provided in **Appendix B**.
3. The gas flare installed and operated at Caloundra Landfill is an LMS Standard Landfill Biogas Flare, manufactured by LMS Energy, the same modular design installed and operated for similar applications at other waste management facilities in Queensland and Australia.  
The LMS Standard Landfill Biogas Flare operates at a combustion temperature of >760 °C. A copy of the LMS Standard Landfill Biogas Flare specification sheet is provided in **Appendix C**. Details relating to combustion temperature are provided on Page 2 of the specification.  
A copy of an email from LMS Energy Environmental Supervisor provided to SCC on 2 November 2024, providing details on the combustion temperature of the gas flare installed and operated at Caloundra Landfill is provided in **Appendix D**.
4. The proposed amendment is considered to meet the criteria of a minor amendment. The proposed amendment will not result in any alteration of the design, equipment or operation of the gas flare. As such no change to air emissions will occur, nor any change impacts on environmental values or significant increase in level of environmental harm associated with any air emissions (further

discussed in Section . A justification for meeting the minor amendment thresholds is provided in **Table 2**. Further details are provided in **Section 3.0**.

### 2.3.2 Justification for P7-WT4

Condition P7-WT4 required development and completion of a TEP. This TEP has been submitted, approved, and finalised. Evidence that the TEP has been finalised is provided in **Appendix E**. The condition should therefore be removed.

**Table 2: Minor Change Justification**

| Condition Number                                                                                                                                                                                                                                                                                                                                                                                                                                       | Condition                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| a) is not a change to a condition identified in the authority as a standard condition, other than -<br>(i) a change that is a condition conversion; or<br>(ii) a change that is not a condition conversion but that replaces a standard condition of the EA with a standard condition for the ERA to which the EA relates; or<br>(iii) a change that will not result in a change to the impact of the relevant activity on an environmental value; and | Condition P7-A20 or P7-WT4 is not identified in the EA as a standard condition.                                                                                                                                                                 |
| (b) does not significantly increase the level of environmental harm caused by the relevant activity; and                                                                                                                                                                                                                                                                                                                                               | The proposed amendment will not result in any alteration of the design, equipment or operation of the gas flare.<br><br>The proposed amendment will not significantly increase the level of environmental harm caused by the relevant activity. |
| (c) does not change any rehabilitation objectives in the EA in a way likely to result in significantly different impacts on environmental values than the impacts previously permitted under the EA; and                                                                                                                                                                                                                                               | The proposed amendment does not change any rehabilitation objectives of the EA.                                                                                                                                                                 |
| (d) does not significantly increase the scale or intensity of the relevant activity; and                                                                                                                                                                                                                                                                                                                                                               | The proposed amendments will not result in any alteration of the design, equipment or operation of the gas flare.                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                              |                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                              | The proposed amendment will not significantly increase the scale or intensity of the relevant activity. |
| <p>(e) does not relate to a new relevant resource tenure for the EA that is:</p> <p>(i) a new mining lease; or</p> <p>(ii) a new petroleum lease; or</p> <p>(iii) a new geothermal lease under the Geothermal Energy Act 2010; or</p> <p>(iv) a new greenhouse gas injection and storage lease under the Greenhouse Gas Storage Act 2009</p> | The EA is not associated with a resource lease or tenure.                                               |
| (f) involves an addition to the surface area for the relevant activity of no more than 10% of the existing area; and                                                                                                                                                                                                                         | The proposed amendments will not cause a change in the surface area of the relevant activity.           |
| <p>(g) for an EA for a petroleum activity:</p> <p>(i) involves constructing a new pipeline that does not exceed 150km in length; or</p> <p>(ii) involves extending an existing pipeline by no more than 10% of the existing length of the pipeline</p>                                                                                       | The EA is not associated with a petroleum activity.                                                     |
| (h) if the amendment relates to a new relevant resource tenure for the authority that is an exploration permit or greenhouse gas permit - the amendment application seeks an EA that is subject to the standard conditions for the relevant activity, to the extent it relates to the permit                                                 | The EA is not associated with a resource lease or tenure.                                               |

### 3.0 IMPACT OF CONDITION AMENDMENT ON ENVIRONMENTAL VALUES

#### 3.1 AIR

This condition amendment is limited to condition P7-A20 only, which is related to air emissions, and the removal of condition P7-WT4 regarding a completed TEP. The purpose of condition P7-A20 is to ensure effective combustion of landfill gas, to prevent potential impacts (from noxious or offensive odours and pollutants) on sensitive neighbouring commercial and residential receptors, as well as reducing green house gas emissions released into the atmosphere.

The proposed amendment will not result in any alteration of the design, equipment or operation of the gas flare at the Caloundra Landfill. This is inclusive of any change to the combustion temperature, which is standard at  $>760^{\circ}\text{C}$  for the modular LMS Standard Landfill Biogas Flare, as explained in Section 2.3 above.

LMS Energy are contracted to operate, monitor and maintain the landfill gas collection and flaring system at the Caloundra Landfill, and no change to the maintenance or operation of the system will occur as a result of the amendment.

As such, the proposed amendment will not cause any change to potential impact (from noxious or offensive odours and pollutants) on sensitive receptors related to air emissions.

#### 3.2 OTHER ENVIRONMENTAL VALUES

An assessment of the likely impacts of the proposed amendment on environmental values other than air is provided in **Table 3**.

**Table 3: Assessment of Other Environmental Values**

| Environmental Value | Impact of Amendment                                                                                                                                                                                               |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water               | The proposed amendment is related to the landfill gas flare, and regarding completion of the TEP, and will not impact the release of contaminants from the site to any waters or the bed and banks of any waters. |
| Groundwater         | The proposed amendment is related to the landfill gas flare, and completion of the TEP, and will not impact the release of contaminants from the site to any                                                      |

|          |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | groundwater. The construction of the HES Basin as part of the TEP improved stormwater discharges, and hence reduced impacts on water environmental values.                                                                                                                                                                                                                           |
| Wetlands | The proposed amendment is related to the landfill gas flare, and regarding completion of the TEP, and will not impact the release of contaminants from the site to any waters or the bed and banks of any waters including wetlands. The construction of the HES Basin as part of the TEP improved stormwater discharges, and hence reduced impacts on wetland environmental values. |
| Land     | The proposed amendment is related to the landfill gas flare, and completion of the TEP, and will not result in any change to release of contaminants to land.                                                                                                                                                                                                                        |
| Land use | No change in landuse is proposed as a result of the amendment. The ERA 60-Waste Disposal and associated landfill gas flare at Caloundra Landfill will continue to operate unchanged.                                                                                                                                                                                                 |
| Acoustic | The proposed amendment will not result in any alteration of the design, equipment or operation of the gas flare or stormwater basins at the Caloundra Landfill. As such no impact on noise levels or environmental nuisance will occur as resulting from the amendment.                                                                                                              |
| Waste    | The proposed amendment will not cause any change to the generation, or management, or release of waste to the environment. The amendment will not cause any alteration of the design, equipment or operation (including combustion temperature) of the gas flare at the Caloundra Landfill, and as such no change to landfill gas emissions will occur.                              |

## **4.0 MANAGEMENT OF WASTE GENERATED BY THE AMENDMENT**

The proposed amendment will not have any impact on any waste that is either generated, accepted or managed by the activity.

LMS Energy are contracted to operate, monitor and maintain the landfill gas collection and flaring system at the Caloundra Landfill, and no change to the maintenance or operation of the system will occur as a result of the amendment.

## 5.0 CONCLUSION

This report has been prepared as supporting information to accompany an application to DETSI for amendment to the existing EA BRID0056 held by SCC, pertaining to operation of the gas flare and the finalisation of the TEP, at Caloundra Landfill.

**Appendix A.**

**Existing Caloundra Landfill Environmental Authority BRID0056**

# Permit

*Environmental Protection Act 1994*

## Environmental authority BRID0056

*This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.*

### Environmental authority number: BRID0056

**Environmental authority takes effect on the day the authority is approved.**

The anniversary day of this environmental authority remains **17 May** each year. Payment of the annual fee will be due each year on this day.

### Environmental authority holder

| Name                            | Registered address                              |
|---------------------------------|-------------------------------------------------|
| Sunshine Coast Regional Council | Cnr Currie and Bury Streets<br>NAMBOUR QLD 4560 |

### Environmentally relevant activity and location details

| Environmentally relevant activities                                                                                                                                                                                                                                                                                                                                       | Locations                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (d) more than 200,000t                                                                                                                                                                                                      | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600,<br>Lot 2 RP208600 & Lot 1 RP202997 |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only                                                                                                                                                                               | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2<br>RP208600                               |
| ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (c) category 2 regulated waste | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600,<br>Lot 2 RP208600 & Lot 1 RP202997 |



|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| ERA 16- (2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                             |
| ERA 16- (3b) Screening, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                 |
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Toolborough Road, COOLUM QLD 4562<br>Lot 3 RP158158                                                             |
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Mt Beerwah Road GLASS HOUSE MOUNTAINS QLD 4518<br>Lot 18 Plan RP835978 & Lot 933 Plan CG4274                    |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste                                                                                                                                                                                                    | Syd Lingard Drive, BUDERIM QLD 4556<br>Lot 665 Plan CP901247                                                    |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only<br>ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (c) more than 100,000t but not more than 200,000t<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste | 171 Pierce Avenue, BELLS CREEK QLD 4551<br>Lot 101 Plan SP232333, Lot 102 Plan SP272967 & Lot 104 Plan SP272967 |
| ERA 54 – Mechanical waste reprocessing 2: Operating a facility for receiving and mechanically reprocessing, in a year, the following quantity of general waste – (c) more than 10,000t<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste                                                                                                                                                                                                         | 66 Cooney Road BLI BLI QLD 4560<br>Lot 3 on SP193049                                                            |

### **Additional information for applicants**

#### Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any

inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

#### Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the **administering authority** if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website [www.qld.gov.au](http://www.qld.gov.au), using the search term 'duty to notify'.

#### Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the **administering authority**-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise - on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the **administering authority** written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

04/10/2024

Date

Dorota Rosiak  
Department of Environment, Science and Innovation  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**Enquiries:**  
Utilities and Government Organisations Assessment  
Department of Environment, Science and Innovation  
Phone: 1300 130 372  
Email: [palm@des.qld.gov.au](mailto:palm@des.qld.gov.au)

### **Obligations under the *Environmental Protection Act 1994***

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

### **Obligations under the Nature Conservation (Koala) Conservation Plan 2017**

In addition to the requirements found in the conditions of this environmental authority, the holder of this environmental authority must also meet the relevant following requirements under the Nature Conservation (Koala) Conservation Plan 2017:

- clearing in particular areas (section 10 - 11)

### **Other permits required**

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site.

### **Development Approval**

This permit is not a development approval under the Planning Act 2016. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

## Contents:

| <b>Part 1 – General Conditions – Nambour Landfill</b>                                                                                                                                                                                                                                                                                                                     |                                                                                                                   |
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| ERA 16 - (2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                  | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| ERA 16 - (3b) Screening, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                                           |                                                                                                                   |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only                                                                                                                                                                               | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (d) more than 200,000t                                                                                                                                                                                                      | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |
| ERA 62 – Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing – (b) general waste<br>ERA 62 – Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing – (c) category 2 regulated waste | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |
| <b>Part 2 - Site specific conditions – Waste Disposal Activities at Nambour Landfill</b>                                                                                                                                                                                                                                                                                  |                                                                                                                   |
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (d) more than 200,000t                                                                                                                                                                                                      | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |
| <b>Part 3 - Site specific conditions – Extracting and Screening Activities at Nambour Landfill</b>                                                                                                                                                                                                                                                                        |                                                                                                                   |
| ERA 16 - (2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                  | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| ERA 16 - (3b) Screening, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                                           | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| <b>Part 4 - Site specific conditions – Coolool Landfill</b>                                                                                                                                                                                                                                                                                                               |                                                                                                                   |
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility                                                                                                                                                                                                                                                                                           | Toolborough Road, COOLool QLD 4562<br>Lot 3 RP158158                                                              |
| <b>Part 5 - Site specific conditions – Glasshouse Mountains Facility</b>                                                                                                                                                                                                                                                                                                  |                                                                                                                   |
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility                                                                                                                                                                                                                                                                                           | Mt Beerwah Road GLASS HOUSE MOUNTAINS QLD 4518<br>Lot 18 Plan RP835978 & Lot 933 Plan CG4274                      |

| <b>Part 6 - Site specific conditions – Buderim Waste Transfer Facility</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                 |
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| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste                                                                                                                                                                                                    | Syd Lingard Drive, BUDERIM QLD 4556<br>Lot 665 Plan CP901247                                                    |
| <b>Part 7 - Site specific conditions – Caloundra Landfill</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                 |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only<br>ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (c) more than 100,000t but not more than 200,000t<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste | 171 Pierce Avenue, BELLS CREEK QLD 4551<br>Lot 101 Plan SP232333, Lot 102 Plan SP272967 & Lot 104 Plan SP272967 |
| <b>Part 8 - Site specific conditions – Nambour Materials Recovery Centre</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                 |
| ERA 54 – Mechanical waste reprocessing 2: Operating a facility for receiving and mechanically reprocessing, in a year, the following quantity of general waste – (c) more than 10,000t<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste                                                                                                                                                                                                         | 66 Cooney Road BLI BLI QLD 4560<br>Lot 3 on SP193049                                                            |

## Conditions of environmental authority

### PART 1 – General Conditions – Nambour Landfill

| Environmentally relevant activities                                                                                                                                                                                                                                                                                                                                       | Locations                                                                                                         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ERA 16 - (2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                  | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| ERA 16 - (3b) Screening, in a year, more than 100,000t but not more than 1,000,000t of material                                                                                                                                                                                                                                                                           |                                                                                                                   |
| ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only                                                                                                                                                                               | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600                               |
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (d) more than 200,000t                                                                                                                                                                                                      | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |
| ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste<br>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (c) category 2 regulated waste | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                     |
| <b>P1-G1</b>             | Activities conducted under this environmental authority must not be conducted contrary to any of the following limitations:<br>1. The extent of all activities is limited to the areas shown in the plans/drawings approved in <i>Part 1 Attachments – 1. Approved plans.</i>                                 |
| <b>P1-G2</b>             | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the activities.                                                                                                                                                                              |
| <b>P1-G3</b>             | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable, or at most, within 24 hours of becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions undertaken. |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>P1-G4</b>  | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur in a manner that causes or is likely to cause environmental harm beyond the boundaries of the <b>site</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P1-G5</b>  | All information and <b>records</b> that are required by the conditions of this environmental authority must be kept for a <b>minimum</b> of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and <b>records</b> required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P1-G6</b>  | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P1-G7</b>  | All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities ( <b>NATA</b> ) certification, or an equivalent certification, for such analyses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P1-G8</b>  | An annual monitoring report must be prepared and submitted to the <b>administering authority</b> by 30 November each year, for the preceding financial year.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P1-G9</b>  | <b>You</b> must record all the following details for all environmental <b>complaints</b> received: <ol style="list-style-type: none"> <li>1. date and time complaint was received</li> <li>2. name and contact details of the complainant</li> <li>3. nature of the complaint</li> <li>4. investigations undertaken</li> <li>5. conclusions formed</li> <li>6. actions taken</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P1-G10</b> | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint that is not considered by the <b>administering authority</b> to be frivolous or vexatious, of <b>environmental nuisance</b> arising from the <b>activity</b> . The monitoring results must be provided to the <b>administering authority</b> upon request.                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>P1-G11</b> | The <b>activity</b> must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> <li>1. identify potential risks to the <b>environment</b> from the <b>activity</b> during routine <b>operations</b>, closure and an emergency; and</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for environmental harm; and</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition; and</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner; and</li> <li>5. ensure that staff in and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and</li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |
| <b>P1-12</b>  | All batteries, <b>liquid</b> chemicals, fuels, and other <b>liquid</b> substances with potential to cause environmental harm must be stored within a <b>secondary containment system</b> that is impervious                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                               | to the materials stored within it, and must be managed to prevent the <b>release</b> of contaminants to <b>waters</b> or <b>land</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Agency interest: Air</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P1-A1</b>                  | Odours or airborne contaminants which are <b>noxious</b> or <b>offensive</b> or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P1-A2</b>                  | Dust and particulate matter emissions must not exceed the following concentrations at any <b>sensitive place</b> or <b>commercial place</b> : <ol style="list-style-type: none"> <li>1. dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions); or</li> <li>2. a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions).</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P1-A3</b>                  | Dust and particulate matter monitoring must: <ol style="list-style-type: none"> <li>1. be undertaken to investigate any complaint of <b>environmental nuisance</b> by dust and/or particulate matter; and</li> <li>2. be carried out at places relevant to the potentially affected <b>sensitive place</b> or <b>commercial place</b> and at suitable representative reference <b>site(s)</b> unlikely to be affected by the <b>activity</b>; and</li> <li>3. be carried out at a sufficient number of monitoring points to enable compliance assessment with condition P1-A2 above; and</li> <li>4. take into account: <ol style="list-style-type: none"> <li>a) locations of dust and particulate sources; and</li> <li>b) locations of persons or <b>site(s)</b> potentially affected by any <b>release</b> of dust or particulate matter from the <b>activity</b>; and</li> </ol> </li> <li>5. be carried out in accordance with the latest edition of the <b>administering authority's Air Quality Sampling Manual</b>; and</li> <li>6. be undertaken in conjunction with the recording of precipitation, wind speed and direction in accordance with the requirements of the relevant standards within AS3580.</li> </ol> |
| <b>Agency interest: Water</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P1-WT1</b>                 | Other than as permitted within the environmental authority, contaminants must not be released to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

| P1-WT2                                                                                 | The stormwater runoff from <b>disturbed areas</b> must be retained on <b>site</b> or managed to remove contaminants before <b>release</b> in accordance condition P1-WT4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                 |           |            |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
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| P1-WT3                                                                                 | <p>Stormwater basins must be able to retain and treat stormwater runoff from <b>disturbed areas</b> up to the <b>minimum</b> capture capacity in accordance with <i>Table P1-WT3 – Approved stormwater basins</i>.</p> <p style="text-align: center;"><b>Table P1-WT3 – Approved stormwater basins</b></p> <table><tr><th>Approved stormwater basin</th><th>Minimum capture capacity</th><th>Release point location</th></tr><tr><td>'HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i></td><td>Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 10 years</b> for reporting catchments.</td><td>R1</td></tr><tr><td>'Proposed HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i></td><td>Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 2 years</b> for reporting catchments.</td><td>R2</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |           |            |                              | Approved stormwater basin                               | Minimum capture capacity | Release point location         | 'HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i> | Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 10 years</b> for reporting catchments. | R1                           | 'Proposed HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i> | Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 2 years</b> for reporting catchments. | R2       |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| Approved stormwater basin                                                              | Minimum capture capacity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Release point location          |           |            |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| 'HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i>          | Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 10 years</b> for reporting catchments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | R1                              |           |            |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| 'Proposed HES basin', as per <i>Part 1 Attachments – 2. Approved stormwater basins</i> | Volume required to capture a <b>24 hour storm event with an average recurrence interval of 1 in 2 years</b> for reporting catchments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | R2                              |           |            |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| P1-WT4                                                                                 | <p>Contaminants must only be released to surface <b>waters</b> where a rainfall event exceeds the minimum capture capacity of the relevant approved stormwater basin as identified in condition P1-WT3, or where they:</p> <ol style="list-style-type: none"><li>are released from the approved release point locations; and</li><li>meet the release limits for each indicator; and</li><li>are monitored at the monitoring location and at the frequency;</li></ol> <p>a) as stated in <i>Table P1-WT4—Surface water release limits</i>, and the associated requirements are complied with.</p> <p style="text-align: center;"><b>Table P1-WT4—Surface water release limits</b></p> <table><tr><th colspan="2">Release Point(s) and Monitoring Location(s) Description</th><th rowspan="2">Quality characteristic (units)</th><th rowspan="2">Limit</th><th rowspan="2">Limit Type</th><th rowspan="2">Minimum Monitoring Frequency</th></tr><tr><th>Discharge Points</th><th>Monitoring Locations</th></tr><tr><td rowspan="4">R1<br/>R2</td><td rowspan="4">W1 and W2</td><td>pH (pH units)</td><td>6.5 – 9.0</td><td>Range</td><td rowspan="4">Prior to release</td></tr><tr><td>Electrical Conductivity (µS/cm)</td><td>1500</td><td>Maximum</td></tr><tr><td>Dissolved oxygen (mg/L)</td><td>6</td><td>Minimum</td></tr><tr><td>Suspended solids (mg/L)</td><td>50</td><td>Maximum</td></tr></table> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>monitoring must be in accordance with the methods prescribed in the current edition of the <b>administering authority's Water Quality Sampling Manual</b>; and</li><li>water samples must be representative of the general condition of the water body or sediments; and</li></ol> |                                 |           |            |                              | Release Point(s) and Monitoring Location(s) Description |                          | Quality characteristic (units) | Limit                                                                         | Limit Type                                                                                                                             | Minimum Monitoring Frequency | Discharge Points                                                                       | Monitoring Locations                                                                                                                  | R1<br>R2 | W1 and W2 | pH (pH units) | 6.5 – 9.0 | Range | Prior to release | Electrical Conductivity (µS/cm) | 1500 | Maximum | Dissolved oxygen (mg/L) | 6 | Minimum | Suspended solids (mg/L) | 50 | Maximum |
| Release Point(s) and Monitoring Location(s) Description                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quality characteristic (units)  | Limit     | Limit Type | Minimum Monitoring Frequency |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| Discharge Points                                                                       | Monitoring Locations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |           |            |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
| R1<br>R2                                                                               | W1 and W2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | pH (pH units)                   | 6.5 – 9.0 | Range      | Prior to release             |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
|                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Electrical Conductivity (µS/cm) | 1500      | Maximum    |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
|                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Dissolved oxygen (mg/L)         | 6         | Minimum    |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |
|                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Suspended solids (mg/L)         | 50        | Maximum    |                              |                                                         |                          |                                |                                                                               |                                                                                                                                        |                              |                                                                                        |                                                                                                                                       |          |           |               |           |       |                  |                                 |      |         |                         |   |         |                         |    |         |

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|                               | <ol style="list-style-type: none"> <li>3. all determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic; and</li> <li>4. all monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li> </ol> |
| <b>P1-WT5</b>                 | Stormwater released from the <b>site</b> in accordance with condition P1-WT4 must not contain <b>leachate</b> .                                                                                                                                                                                                                                                                                                                              |
| <b>P1-WT6</b>                 | <p>In addition to P1-WT4, the release to <b>waters</b> must not:</p> <ol style="list-style-type: none"> <li>1. have any other properties at a concentration that is capable of causing environmental harm; and</li> <li>2. produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.</li> </ol>                                           |
| <b>P1-WT7</b>                 | <p>The controlled release of treated/settled stormwater must be conducted in a way and at a rate that does not cause:</p> <ol style="list-style-type: none"> <li>1. re-suspension of particles; or</li> <li>2. erosion of bed or banks of receiving <b>waters</b>; or</li> <li>3. landscape damage; or</li> <li>4. ponding of the water; or</li> <li>5. vegetation damage.</li> </ol>                                                        |
| <b>Agency interest: Land</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P1-L1</b>                  | Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .                                                                                                                                                                                                                                                                   |
| <b>Agency interest: Noise</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P1-N1</b>                  | Noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                               |

## PART 2 - Site specific conditions – Waste Disposal Activities at Nambour Landfill

| Environmentally relevant activities                                                                                                                                  | Locations                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (d) more than 200,000t | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 CG2584, Lot 1 RP208600, Lot 2 RP208600 & Lot 1 RP202997 |

In addition to Part 1 of this environmental authority, the environmentally relevant activity conducted at the locations as described above must be conducted in accordance with the following **site** specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P2-G1                    | A <b>leachate</b> collection system must be designed by an <b>appropriately qualified person</b> and installed and maintained to: <ol style="list-style-type: none"> <li>1. collect <b>leachate</b> generated in the <b>landfill unit</b>; and</li> <li>2. convey the collected <b>leachate</b> out of the <b>landfill unit</b>; and</li> <li>3. minimise the <b>leachate</b> head.</li> </ol>                                                                                                                                                                                                                                                  |
| P2-G2                    | <b>Leachate</b> and stormwater runoff which has been in contact with waste materials in the <b>landfill unit</b> , must be: <ol style="list-style-type: none"> <li>1. treated in a <b>leachate</b> treatment plant and/or discharged to sewer in accordance with the requirements of the relevant water utility; or</li> <li>2. recirculated through waste disposed in the <b>landfill unit</b>; or</li> <li>3. treated by alternative technologies agreed by the <b>administering authority</b> for offsite disposal, discharge, or on-site reuse; or</li> <li>4. disposed of at a facility that is approved to receive such waste.</li> </ol> |
| P2-G3                    | All reasonable and practicable <b>measures</b> must be taken to exclude vectors and pest species to the extent necessary to prevent: <ol style="list-style-type: none"> <li>1. nuisance to occupiers of neighbouring premises; and</li> <li>2. any danger or risk to the health of any persons.</li> </ol>                                                                                                                                                                                                                                                                                                                                      |
| Agency interest: Air     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P2-A1                    | The following materials must not be used for dust suppression purposes: <ol style="list-style-type: none"> <li>1. <b>leachate</b> or landfill gas condensate; and</li> <li>2. waste oil or other hydrocarbons.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P2-A2                    | The <b>release</b> of landfill gas must not cause environmental harm.<br><br>Landfill gas is not considered to cause environmental harm if:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|               | <p><b>Notes:</b></p> <p><sup>1</sup> highest background value means the highest monitored value of the water quality characteristic, measured in the aquifer from the last 8 quarterly sampling results at the corresponding hydraulically up-gradient or background monitoring site in the <b>groundwater monitoring system</b>, as required under this approval.</p> <p><b>Associated monitoring requirements:</b></p> <ol style="list-style-type: none"> <li>1. monitoring must be in accordance with the methods prescribed in the current edition of the <b>administering authority</b> <i>Water Quality Sampling Manual</i>.</li> <li>2. water samples must be representative of the general condition of the water body or sediments.</li> <li>3. all determinations must employ analytical practical quantification limits of sufficiently sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.</li> <li>4. all monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P2-WT3</b> | A Receiving Environment Monitoring Program (REMP) must be designed and implemented by an <b>appropriately qualified person(s)</b> to monitor the effects of the <b>activity</b> on surface <b>waters</b> and <b>groundwater</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>P2-WT4</b> | <p>The Receiving Environment Monitoring Program required by condition P2-WT3, must include at least the following:</p> <ol style="list-style-type: none"> <li>1. <b>Groundwater monitoring program, which must:</b> <ol style="list-style-type: none"> <li>a) include sufficient number of bores installed at locations and depths which yield representative <b>groundwater</b> samples from at least the <b>uppermost aquifer</b> so as to: <ol style="list-style-type: none"> <li>i) establish the quality of <b>groundwater</b> that has not been affected by seepage or drainage of contaminants to <b>groundwater</b> from the <b>activity</b>; and</li> <li>ii) detect any seepage of contaminants to <b>groundwater</b> from the licensed place; and</li> <li>iii) establish the quality of <b>groundwater</b> affected by any seepage of contaminants; and</li> </ol> </li> <li>b) include monitoring of <b>background groundwater</b> quality, with both hydraulically up-gradient bore(s) or background bore(s) that have not been affected by any <b>release</b> of contaminants to <b>groundwater</b> from the activity and hydraulically down gradient bore(s) of the <b>activity</b>.</li> <li>c) be undertaken before, during and after deposition of waste in the <b>landfill unit</b>; and</li> <li>d) be conducted at least quarterly; and</li> <li>e) be undertaken for, at least, the following water quality characteristics: <ul style="list-style-type: none"> <li>- Ammonia (as N) (<b>mg/L</b>)</li> <li>- Carbonate/Bicarbonate (CO<sub>3</sub>/HCO<sub>3</sub>) (<b>mg/L</b>)</li> <li>- Calcium (<b>mg/L</b>)</li> <li>- Chloride (<b>mg/L</b>)</li> <li>- Iron (total) (<b>mg/L</b>)</li> <li>- Manganese (<b>mg/L</b>)</li> <li>- Oxidised Nitrogen (as N) (<b>mg/L</b>)</li> <li>- pH (field measured) (pH units)</li> <li>- Potassium (<b>mg/L</b>)</li> <li>- Sodium (<b>mg/L</b>)</li> <li>- Sulphate (<b>mg/L</b>)</li> <li>- Electrical Conductivity (µs/cm)</li> <li>- Total Organic Carbon (TOC) (<b>mg/L</b>)</li> <li>- Zinc (<b>mg/L</b>)</li> <li>- Magnesium (<b>mg/L</b>); and</li> </ul> </li> </ol> </li> </ol> |

|                                                                        | <p>f) identify actions, response and procedures for when any seepage of contaminants from the activities to <b>groundwater</b> was detected, or upon becoming aware of any monitoring results that indicate potential <b>groundwater</b> contamination; and</p> <p>g) consider the potential use of <b>groundwater</b> in the vicinity; and</p> <p>2) <u>Surface water monitoring, which must:</u></p> <p>a) monitor the quality of surface water, as often as necessary, but not less frequently than quarterly, at points upstream and downstream of the <b>landfill facility</b> to detect any possible <b>release(s)</b> of contaminants to surface <b>waters</b>, not in accordance with this approval; and</p> <p>b) be undertaken for, at least the following water quality characteristics:</p> <ul style="list-style-type: none"><li>- pH (pH units)</li><li>- Dissolved oxygen (<b>mg/L</b>)</li><li>- Electrical conductivity (µs/cm)</li><li>- Turbidity (NTU)</li><li>- Temperature (°C)</li><li>- Ammonia (as N) (<b>mg/L</b>)</li><li>- Carbonate/Bicarbonate (CO3/HCO3) (<b>mg/L</b>)</li><li>- Calcium (<b>mg/L</b>)</li><li>- Chloride (<b>mg/L</b>)</li><li>- Iron (total)</li><li>- Manganese (dissolved)</li><li>- Oxidised Nitrogen (as N) (<b>mg/L</b>)</li><li>- Phosphorus (total) (<b>mg/L</b>)</li><li>- Potassium (<b>mg/L</b>)</li><li>- Sodium (<b>mg/L</b>)</li><li>- Sulphate (<b>mg/L</b>)</li><li>- Total Organic Carbon (TOC) (<b>mg/L</b>)</li><li>- Zinc (<b>mg/L</b>)</li><li>- Magnesium (<b>mg/L</b>)</li></ul> |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
|------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|---------------------|---------------|----------------------------|-----------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------|---------------------|----------------------|--------------------------|-----------------------------------|----------------------------|
| <b>P2-WT5</b>                                                          | <p>The holder of this environmental authority must monitor <b>groundwater</b> quality for the quality characteristics specified in <i>Table P2-WT5 - Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i> in aquifers potentially affected by the <b>activity</b> in bores hydraulically down-gradient of the landfill for deviations in <b>groundwater</b> quality trending away from that monitored in corresponding hydraulically up-gradient or background locations, as required under condition P2-WT4.</p> <p><b>Table P2-WT5 - Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</b></p> <table><tr><th>Quality Characteristic</th><th>Test Site Statistic</th><th>Trigger Level</th></tr><tr><td>Ammonia (as N) <b>mg/L</b></td><td rowspan="7"><b>Median</b> of test site<sup>1</sup></td><td rowspan="7"><b>80<sup>th</sup> percentile</b> background<sup>2</sup></td></tr><tr><td>Carbonate/Bicarbonate (CO<sub>3</sub>/HCO<sub>3</sub>) <b>mg/L</b></td></tr><tr><td>Calcium <b>mg/L</b></td></tr><tr><td>Chloride <b>mg/L</b></td></tr><tr><td>Iron (total) <b>mg/L</b></td></tr><tr><td>Manganese (dissolved) <b>mg/L</b></td></tr><tr><td>Nitrate (as N) <b>mg/L</b></td></tr></table>                                                                                                                                                                                                                                                                                                 | Quality Characteristic                                    | Test Site Statistic | Trigger Level | Ammonia (as N) <b>mg/L</b> | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> background <sup>2</sup> | Carbonate/Bicarbonate (CO <sub>3</sub> /HCO <sub>3</sub> ) <b>mg/L</b> | Calcium <b>mg/L</b> | Chloride <b>mg/L</b> | Iron (total) <b>mg/L</b> | Manganese (dissolved) <b>mg/L</b> | Nitrate (as N) <b>mg/L</b> |
| Quality Characteristic                                                 | Test Site Statistic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trigger Level                                             |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Ammonia (as N) <b>mg/L</b>                                             | <b>Median</b> of test site <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>80<sup>th</sup> percentile</b> background <sup>2</sup> |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Carbonate/Bicarbonate (CO <sub>3</sub> /HCO <sub>3</sub> ) <b>mg/L</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Calcium <b>mg/L</b>                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Chloride <b>mg/L</b>                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Iron (total) <b>mg/L</b>                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Manganese (dissolved) <b>mg/L</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |
| Nitrate (as N) <b>mg/L</b>                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                           |                     |               |                            |                                         |                                                           |                                                                        |                     |                      |                          |                                   |                            |

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|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|--------------------|----------------------|------------------------------------------|----------------------------------|------------------|-----------------------|---------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|
|                                                           | <table><tr><td>Potassium <b>mg/L</b></td><td rowspan="7"></td><td rowspan="7"></td></tr><tr><td>Sodium <b>mg/L</b></td></tr><tr><td>Sulphate <b>mg/L</b></td></tr><tr><td>Electrical Conductivity <math>\mu\text{S/cm}</math></td></tr><tr><td>Total Organic Carbon <b>mg/L</b></td></tr><tr><td>Zinc <b>mg/L</b></td></tr><tr><td>Magnesium <b>mg/L</b></td></tr><tr><td>pH (field measured)</td><td></td><td><table><tr><td><b>80<sup>th</sup> percentile</b> background<sup>2</sup></td></tr><tr><td><b>20<sup>th</sup> percentile</b> background<sup>3</sup></td></tr></table></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Potassium <b>mg/L</b>                                                                                                                                               |                                                           |                                                           | Sodium <b>mg/L</b> | Sulphate <b>mg/L</b> | Electrical Conductivity $\mu\text{S/cm}$ | Total Organic Carbon <b>mg/L</b> | Zinc <b>mg/L</b> | Magnesium <b>mg/L</b> | pH (field measured) |  | <table><tr><td><b>80<sup>th</sup> percentile</b> background<sup>2</sup></td></tr><tr><td><b>20<sup>th</sup> percentile</b> background<sup>3</sup></td></tr></table> | <b>80<sup>th</sup> percentile</b> background <sup>2</sup> | <b>20<sup>th</sup> percentile</b> background <sup>3</sup> |
| Potassium <b>mg/L</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Sodium <b>mg/L</b>                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Sulphate <b>mg/L</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Electrical Conductivity $\mu\text{S/cm}$                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Total Organic Carbon <b>mg/L</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Zinc <b>mg/L</b>                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| Magnesium <b>mg/L</b>                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| pH (field measured)                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <table><tr><td><b>80<sup>th</sup> percentile</b> background<sup>2</sup></td></tr><tr><td><b>20<sup>th</sup> percentile</b> background<sup>3</sup></td></tr></table> | <b>80<sup>th</sup> percentile</b> background <sup>2</sup> | <b>20<sup>th</sup> percentile</b> background <sup>3</sup> |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| <b>80<sup>th</sup> percentile</b> background <sup>2</sup> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| <b>20<sup>th</sup> percentile</b> background <sup>3</sup> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
|                                                           | <p><b>Notes:</b></p> <p><sup>1</sup><b>median</b> of test site means the running <b>median</b> value for the hydraulically down-gradient test site, calculated from the most recent 8 quarterly <b>groundwater</b> monitoring results as required under this approval. If less than 8 results are available, the running <b>median</b> is to be calculated once 2 or more consecutive results are available, using available data, until the full 8 results are available.</p> <p><sup>2</sup><b>80<sup>th</sup> percentile</b> of background means the running <b>80<sup>th</sup> percentile</b> value for the relevant hydraulically up-gradient or background monitoring site calculated from the most recent 8 quarterly <b>groundwater</b> monitoring results as required under this approval. If less than 8 results are available, the running <b>median</b> is to be calculated once 2 or more consecutive results are available, using available data, until the full 8 results are available.</p> <p><sup>3</sup><b>20<sup>th</sup> percentile</b> of background means the running <b>20<sup>th</sup> percentile</b> value calculated from the same data set used to calculate the <b>80<sup>th</sup> percentile</b> of background value.</p>                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| P2-WT6                                                    | For the purpose of complying with condition P2-WT5, the holder of this environmental authority must make comparisons for the quality characteristics specified in <i>Table P2-WT5 - Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i> , between <b>median groundwater</b> quality in aquifers potentially affected by the <b>activity</b> , in bores hydraulically down-gradient of the landfill (Test Site Statistic), against the <b>80<sup>th</sup> percentile</b> of monitoring results (Trigger Level) for <b>groundwater</b> quality in corresponding hydraulically up-gradient or background locations, as required in condition P2-WT4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |
| P2-WT7                                                    | <p>In the event that comparison in condition P2-WT6 shows that any <b>groundwater</b> quality trigger levels prescribed in <i>Table P2-WT5 - Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i> have been exceeded, then the holder of this environmental authority must conduct a review to identify the likelihood that the exceedance is <b>site</b> or <b>activity</b> related. If it is determined that the exceedance is likely to be related to <b>site</b> activities an assessment into the cause of the exceedance must be undertaken by implementing relevant actions which are applicable to the early warning exceedance and may include but are not limited to:</p> <ol style="list-style-type: none"><li>1. review of <b>leachate</b> management practices at the landfill for effectiveness in minimising <b>leachate</b> formation and escape;</li><li>2. review the frequency of <b>groundwater</b> monitoring, for the relevant water quality indicator(s) at the relevant <b>groundwater</b> monitoring bore site(s) until the issue is resolved;</li><li>3. evaluate potential causes of the monitored levels, for example, evaluate <b>leachate</b> quality monitoring results for any relevant trends or variations in composition between <b>leachate</b> and <b>groundwater</b> using finger print style indicators<sup>1</sup>;</li><li>4. any other investigative option considered appropriate; and</li><li>5. monitor and record actions taken and results of monitoring and assessments.</li></ol> |                                                                                                                                                                     |                                                           |                                                           |                    |                      |                                          |                                  |                  |                       |                     |  |                                                                                                                                                                     |                                                           |                                                           |

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|                              | <sup>1</sup> Means water quality indicators that have good potential to discriminate between presence of landfill <b>leachate</b> and other extraneous sources of contaminants.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P2-WT8</b>                | The holder of this environmental authority must produce suitable spreadsheets and charts to display and facilitate interpretation of the monitoring results to enable comparisons against the <b>groundwater</b> quality limits and trigger levels prescribed in <i>Table P2-WT2 – Groundwater quality limits – Detection monitoring</i> and <i>Table P2-WT5 - Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Agency interest: Land</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Condition number</b>      | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P2-L1</b>                 | When the deposition of waste to the <b>landfill unit</b> ceases, a final capping system to the <b>landfill unit</b> must be designed by an <b>appropriately qualified person</b> and installed to minimise: <ol style="list-style-type: none"> <li>1. infiltration of water into the <b>landfill unit</b> and water ponding on the surface; and</li> <li>2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials; and</li> <li>3. a final capping system is not required where the deposition of waste to a <b>landfill unit</b> ceases temporarily for the purpose of using an alternative working face.</li> </ol>                                                                                                                                                                                                                                                                                                                                          |
| <b>P2-L2</b>                 | <b>Land</b> that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: <ol style="list-style-type: none"> <li>1. suitable species of vegetation for the location are established and sustained for earthen surfaces; and</li> <li>2. potential for erosion is minimised; and</li> <li>3. the quality of water, including seepage, released from the <b>site</b> does not cause environmental harm; and</li> <li>4. potential for <b>environmental nuisance</b> caused by dust is minimised;</li> <li>5. the water quality of any residual water body does not have potential to cause environmental harm; and</li> <li>6. the final landform is stable and protects public safety; and</li> <li>7. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the '<i>National Environmental Protection (Assessment of Soil Contamination) Measure 1999</i>.'</li> </ol> |
| <b>P2-L3</b>                 | Following cessation of deposition of waste in the <b>landfill unit</b> , post-closure care of the <b>landfill unit</b> must be conducted for: <ol style="list-style-type: none"> <li>1. a period of 30 years; or</li> <li>2. such shorter period until the <b>administering authority</b> determines, on the basis of correct information, that the <b>landfill unit</b> and surrounding <b>site</b> are stable and that no <b>release</b> of waste materials, <b>leachate</b>, landfill gas or other contaminants that may cause environmental harm is likely.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P2-L4</b>                 | The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include <b>measures</b> to: <ol style="list-style-type: none"> <li>1. maintain the structural integrity and effectiveness of the final capping system; and</li> <li>2. maintain and operate the <b>leachate</b> collection system; and</li> <li>3. maintain the <b>groundwater monitoring system</b> and monitor quality of <b>groundwater</b> at a frequency sufficient to detect any <b>release</b> of contaminants to <b>groundwater</b>; and</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                  |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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|                               | <ol style="list-style-type: none"> <li>4. maintain and operate the landfill gas monitoring system; and</li> <li>5. maintain and operate the landfill gas collection system.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>P2-W1</b>                  | <p>Only the following waste streams can be received at the <b>site</b>:</p> <ol style="list-style-type: none"> <li>1. municipal solid waste - consisting of domestic clean-up waste, recyclable waste and green waste;</li> <li>2. commercial and industrial waste - consisting of commercial waste and commercial garden waste, metal, green waste, engine oil, batteries, eWaste;</li> <li>3. construction and demolition waste - consisting of bricks, concrete, timber, plasterboard, glass, green waste, metal, cardboard, plastic and soil;</li> <li>4. <b>regulated waste</b>; and</li> <li>5. contaminated soils.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P2-W2</b>                  | <p>In addition to condition P2-W1, the following waste streams must not be permitted to be placed at the <b>landfill facility</b> at any time:</p> <ol style="list-style-type: none"> <li>1. <b>liquid</b> or semi <b>liquid</b> waste, other than: <ol style="list-style-type: none"> <li>a) <b>liquid</b> or semi <b>liquid</b> waste which has been produced in the carrying out of the <b>activity</b>;</li> <li>b) <b>liquid</b> or semi <b>liquid</b> waste that is incidental to, and commingled with, the permitted waste streams.</li> </ol> </li> <li>2. hot ash;</li> <li>3. material that is smouldering or aflame;</li> <li>4. material containing a substance which is ignitable, corrosive, reactive or <b>toxic material</b> (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated monocell with a written approval of the administering authority;</li> <li>5. all radioactive wastes, unless otherwise approved under the <i>Radiation Safety Act 1999</i> or approved contaminated soil;</li> <li>6. an explosive;</li> <li>7. ammunition, other than ammunition that no longer contains explosives, pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction.</li> </ol> |
| <b>P2-W3</b>                  | Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P2-W4</b>                  | Excepting combustion of landfill gas, waste must not be burnt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P2-W5</b>                  | <p>Waste and any contaminated soil disposed of at the premises to which this environmental authority relates:</p> <ol style="list-style-type: none"> <li>1. must be accepted subject to effectively implementing risk assessment practices and procedures for contaminant testing that ensure that the material accepted complies with the <b>maximum</b> contaminant levels and the allowable leaching contaminant levels prescribed in <i>Table P2-W5a—Maximum contaminant levels in soils</i> and <i>Table P2-W5b—Allowable leaching contaminant levels respectively</i>; and</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

2. if the contaminated soil is used as coverage material, contaminant levels must not exceed the **maximum** concentration limits in *Table P2-W5c- Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)*, must not cause contaminated stormwater **release** and must not include any soil that is contaminated due to the concentration of monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons.

**Table P2-W5a—Maximum contaminant levels in soils**

| Contaminant                                   | Maximum<br>contaminant level for<br>clay lined landfills<br>(mg/kg) | Maximum<br>contaminant level for<br>double lined landfills<br>(mg/kg) |
|-----------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| <i>Monocyclic aromatic hydrocarbons (MAH)</i> |                                                                     |                                                                       |
| Benzene                                       | 10                                                                  | 20                                                                    |
| Ethyl Benzene                                 | 500                                                                 | 1,000                                                                 |
| Toluene                                       | 300                                                                 | 600                                                                   |
| Xylene                                        | 250                                                                 | 500                                                                   |
| Total MAH                                     | 500                                                                 | 1,000                                                                 |
| <i>Polycyclic aromatic hydrocarbons (PAH)</i> |                                                                     |                                                                       |
| Total PAH                                     | 500                                                                 | 1,000                                                                 |
| <i>Phenolic contaminants</i>                  |                                                                     |                                                                       |
| <i>Non halogenated compounds:</i>             |                                                                     |                                                                       |
| Phenol                                        | 100                                                                 | 250                                                                   |
| m-cresol                                      | 250                                                                 | 500                                                                   |
| o-cresol                                      | 250                                                                 | 500                                                                   |
| p-cresol                                      | 250                                                                 | 500                                                                   |
| Total non halogenated phenol                  | 250                                                                 | 500                                                                   |
| <i>Halogenated phenol</i>                     |                                                                     |                                                                       |
| Chlorophenol                                  | 1                                                                   | 5                                                                     |
| Pentachlorophenol                             | 5                                                                   | 20                                                                    |
| Trichlorophenol                               | 5                                                                   | 20                                                                    |
| Total halogenated phenol                      | 5                                                                   | 20                                                                    |
| <i>Chlorinated Hydrocarbons</i>               |                                                                     |                                                                       |
| <i>Chlorinated aliphatic compounds:</i>       |                                                                     |                                                                       |
| Carbon tetrachloride                          | 5                                                                   | 10                                                                    |
| 1,2 Dichloroethane                            | 10                                                                  | 20                                                                    |
| 1,1 Dichloroethene                            | 1                                                                   | 1                                                                     |
| Tetrachloroethene                             | 10                                                                  | 20                                                                    |

|                                                                  |        |        |
|------------------------------------------------------------------|--------|--------|
| Trichloroethene                                                  | 25     | 25     |
| Total chlorinated aliphatic compounds                            | 50     | 50     |
| <i>Chlorinated aromatic compounds:</i>                           |        |        |
| Chlorobenzene                                                    | 100    | 200    |
| Hexachlorobenzene                                                | 1      | 1      |
| Total chlorinated aromatic compounds                             | 100    | 200    |
| Non scheduled solid polychlorinated biphenyls (PCBs)             | 2      | 50     |
| <i>Pesticides</i>                                                |        |        |
| Total organochlorine                                             | 5      | 50     |
| Total herbicides                                                 | 25     | 50     |
| Total carbamates                                                 | 25     | 50     |
| Total organophosphorus                                           | 10     | 50     |
| <i>Petroleum hydrocarbons</i>                                    |        |        |
| Total petroleum hydrocarbons (C <sub>6</sub> -C <sub>9</sub> )   | 500    | 1,000  |
| Total petroleum hydrocarbons (C <sub>10</sub> -C <sub>14</sub> ) | 5,000  | 10,000 |
| Total petroleum hydrocarbons (C <sub>15</sub> -C <sub>28</sub> ) | 10,000 | 50,000 |
| Total petroleum hydrocarbons (C <sub>29</sub> -C <sub>36</sub> ) | 10,000 | 50,000 |

**Table P2-W5b—Allowable leaching contaminant levels respectively**

| Contaminant               | Allowable leaching contaminant levels (TCLP*) for <b>clay lined</b> landfills (mg/l) | Allowable leaching contaminant levels (TCLP) for <b>double lined</b> landfills (mg/l) |
|---------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Non specific contaminants |                                                                                      |                                                                                       |
| Biochemical oxygen demand | 20,000                                                                               | 20,000                                                                                |
| Total organic carbon      | 10,000                                                                               | 10,000                                                                                |
| Petroleum hydrocarbons    | 25                                                                                   | 50                                                                                    |
| Metals/non-metals         |                                                                                      |                                                                                       |
| Antimony                  | 0.5                                                                                  | 5                                                                                     |
| Arsenic                   | 0.5                                                                                  | 5                                                                                     |
| Barium                    | 10                                                                                   | 100                                                                                   |
| Cadmium                   | 0.05                                                                                 | 0.5                                                                                   |
| Chromium                  | 0.5                                                                                  | 5                                                                                     |
| Cobalt                    | 0.5                                                                                  | 5                                                                                     |
| Copper                    | 10                                                                                   | 100                                                                                   |
| Lead                      | 0.5                                                                                  | 5                                                                                     |

|                                        |       |       |
|----------------------------------------|-------|-------|
| Mercury                                | 0.01  | 0.1   |
| Molybdenum                             | 0.1   | 5     |
| Nickel                                 | 0.5   | 5     |
| Selenium                               | 0.1   | 1     |
| Silver                                 | 0.5   | 5     |
| Thallium                               | 0.1   | 1     |
| Tin                                    | 0.3   | 3     |
| Vanadium                               | 0.5   | 5     |
| Zinc                                   | 50    | 500   |
| Inorganic anions                       |       |       |
| Bromide                                | 5     | 50    |
| Chloride                               | 6,000 | 6,000 |
| Cyanide (total)                        | 1     | 5     |
| Fluoride                               | 15    | 150   |
| Nitrate                                | 100   | 1,000 |
| Sulphate                               | 2,500 | 4,000 |
| Monocyclic aromatic hydrocarbon (MAH)  |       |       |
| Benzene                                | 0.1   | 1     |
| Ethyl benzene                          | 5     | 50    |
| Toluene                                | 3     | 30    |
| Xylene                                 | 2     | 20    |
| Total MAH                              | 5     | 50    |
| Polycyclic aromatic hydrocarbons (PAH) |       |       |
| Anthracene                             | 0.07  | 0.7   |
| Benz (a) anthracene                    | 0.005 | 0.05  |
| Benz (c) phenanthrene                  | 0.005 | 0.05  |
| Benzo (a) pyrene                       | 0.002 | 0.02  |
| Benzo (b) fluoranthene                 | 0.005 | 0.05  |
| Benzo (k) fluoranthene                 | 0.005 | 0.05  |
| Chrysene                               | 0.01  | 0.1   |
| Dibenz (a,h) anthracene                | 0.002 | 0.02  |
| Dibenz (a,h) pyrene                    | 0.01  | 0.1   |
| Dimethylbenz (a) anthracene            | 0.005 | 0.05  |
| Fluoranthene                           | 0.02  | 0.2   |
| Indeno (1,2,3-cd) pyrene               | 0.01  | 0.1   |

|                                        |       |      |
|----------------------------------------|-------|------|
| Naphthalene                            | 0.07  | 0.7  |
| Phenanthrene                           | 0.01  | 0.1  |
| Pyrene                                 | 0.07  | 0.7  |
| Total PAH                              | 0.1   | 1    |
| <i>Phenolic contaminants</i>           |       |      |
| <i>Non halogenated compounds:</i>      |       |      |
| Phenol                                 | 1     | 10   |
| m-cresol                               | 2     | 20   |
| o-cresol                               | 2     | 20   |
| p-cresol                               | 2     | 20   |
| Halogenated phenols                    |       |      |
| Chlorophenol                           | 0.01  | 0.1  |
| Pentachlorophenol                      | 0.1   | 1    |
| Trichlorophenol                        | 0.1   | 1    |
| Chlorinated hydrocarbons               |       |      |
| <i>Chlorinated aliphatic compounds</i> |       |      |
| Carbon tetrachloride                   | 0.03  | 0.3  |
| 1,2 Dichloroethane                     | 0.1   | 1    |
| 1,1 Dichloroethene                     | 0.003 | 0.03 |
| Tetrachloroethene                      | 0.1   | 1    |
| Trichloroethene                        | 0.3   | 3    |
| Chlorinated aromatic compounds         |       |      |
| Chlorobenzene (total)                  | 1     | 10   |
| Hexachlorobenzene                      | 0.002 | 0.02 |
| Pesticides                             |       |      |
| Organochlorine                         |       |      |
| Aldrin                                 | 0.001 | 0.01 |
| Chlordane                              | 0.006 | 0.06 |
| Chlorpyrifos                           | 0.01  | 0.03 |
| Dieldrin                               | 0.001 | 0.01 |
| DDT                                    | 0.003 | 0.03 |
| Endrin                                 | 0.001 | 0.01 |
| Heptachlor                             | 0.003 | 0.03 |
| Lindane                                | 0.1   | 1    |
| Methoxychlor                           | 0.1   | 1    |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Toxaphene                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.005  | 0.05   |
| Herbicides                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |        |
| 2,4-D                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.1    | 1      |
| 2,4-DB                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.2    | 2      |
| 2,4,5 -T                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.002  | 0.02   |
| MCPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.2    | 2      |
| Carbamates:                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |        |
| Carbaryl                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.06   | 0.6    |
| Carbofuran                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.03   | 0.3    |
| Organophosphoru                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |        |
| Diazinon                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01   | 0.1    |
| Methyl Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.006  | 0.06   |
| Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.03   | 0.3    |
| Triazines:                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |        |
| Atrazine                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01   | 0.03   |
| Simazine                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.01   | 0.03   |
| Fluorinated organic compounds                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |        |
| Total fluorinated organic compounds (if <b>leachate</b> reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                      | 0.0003 | 0.0003 |
| Total fluorinated organic compounds (if <b>leachate</b> not reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                  | 0.05   | 0.05   |
| For any waste or soil contaminated by radioactive material, the gross alpha and gross beta <b>activity</b> concentration in the Toxicity Characteristic Leaching Procedure (TCLP) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta <b>activity</b> concentrations specified in the <i>National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines, 2011</i> . |        |        |

\*Allowable leaching levels to be determined using the TCLP procedure mentioned in United States Environmental Protection Agency (EPA), Washington DC (2008) "*Test methods for evaluating solid waste, physical/chemical methods*" Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.

**Table P2-W5c - Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)**

| Contaminant     | Maximum total contaminant levels in soils used as cover material (mg/kg) |
|-----------------|--------------------------------------------------------------------------|
| Arsenic (total) | 200                                                                      |
| Beryllium       | 40                                                                       |
| Cadmium         | 40                                                                       |
| Chromium (iii)  | 240,000                                                                  |
| Chromium (vi)   | 200                                                                      |

|  |                                     |                                |
|--|-------------------------------------|--------------------------------|
|  | Copper                              | 2,000                          |
|  | Lead                                | 600                            |
|  | Manganese                           | 3,000                          |
|  | Mercury (inorganic)                 | 30                             |
|  | Methyl Mercury                      | 20                             |
|  | Nickel                              | 600                            |
|  | Zinc                                | 14,000                         |
|  | PFOS (Perfluoro-octane sulfonate)   | 6                              |
|  | PFOA (Perfluoro-octanoic acid)      | 16                             |
|  | Total fluorinated organic compounds | 10 (not including PFOS & PFOA) |

**Part 3 – Site specific conditions – Extracting and Screening Activities at Nambour Landfill**

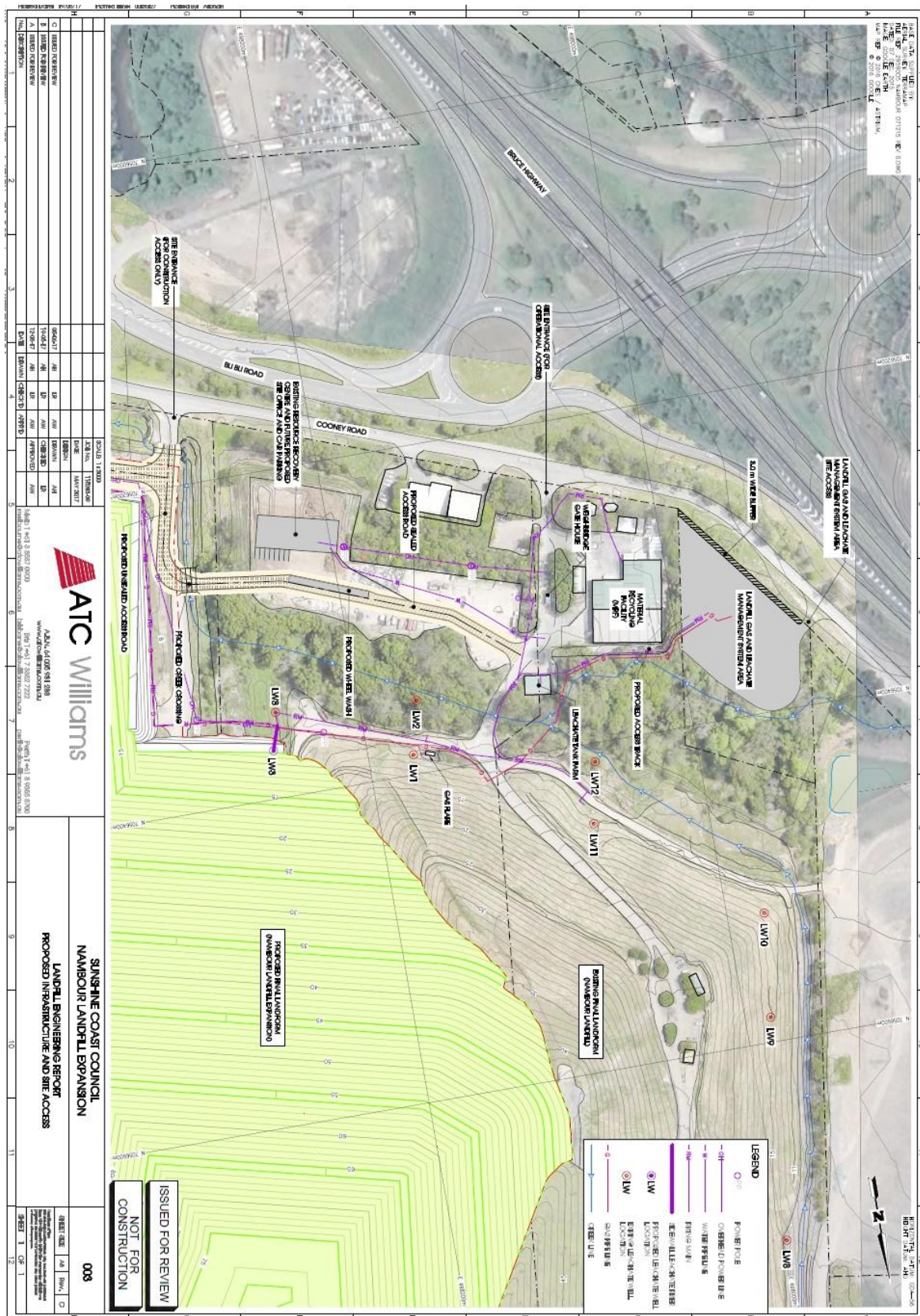
| Environmentally relevant activities                                                                                      | Location                                                                            |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ERA 16 - (2b) Extracting, other than by dredging, in a year, more than 100,000t but not more than 1,000,000t of material | 18 Cooney Road, BLI BLI QLD 4560<br>Lot 4 RP803104, Lot 1 RP208600 & Lot 2 RP208600 |
| ERA 16 - (3b) Screening, in a year, more than 100,000t but not more than 1,000,000t of material                          |                                                                                     |

In addition to Part 1 of this environmental authority, the environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

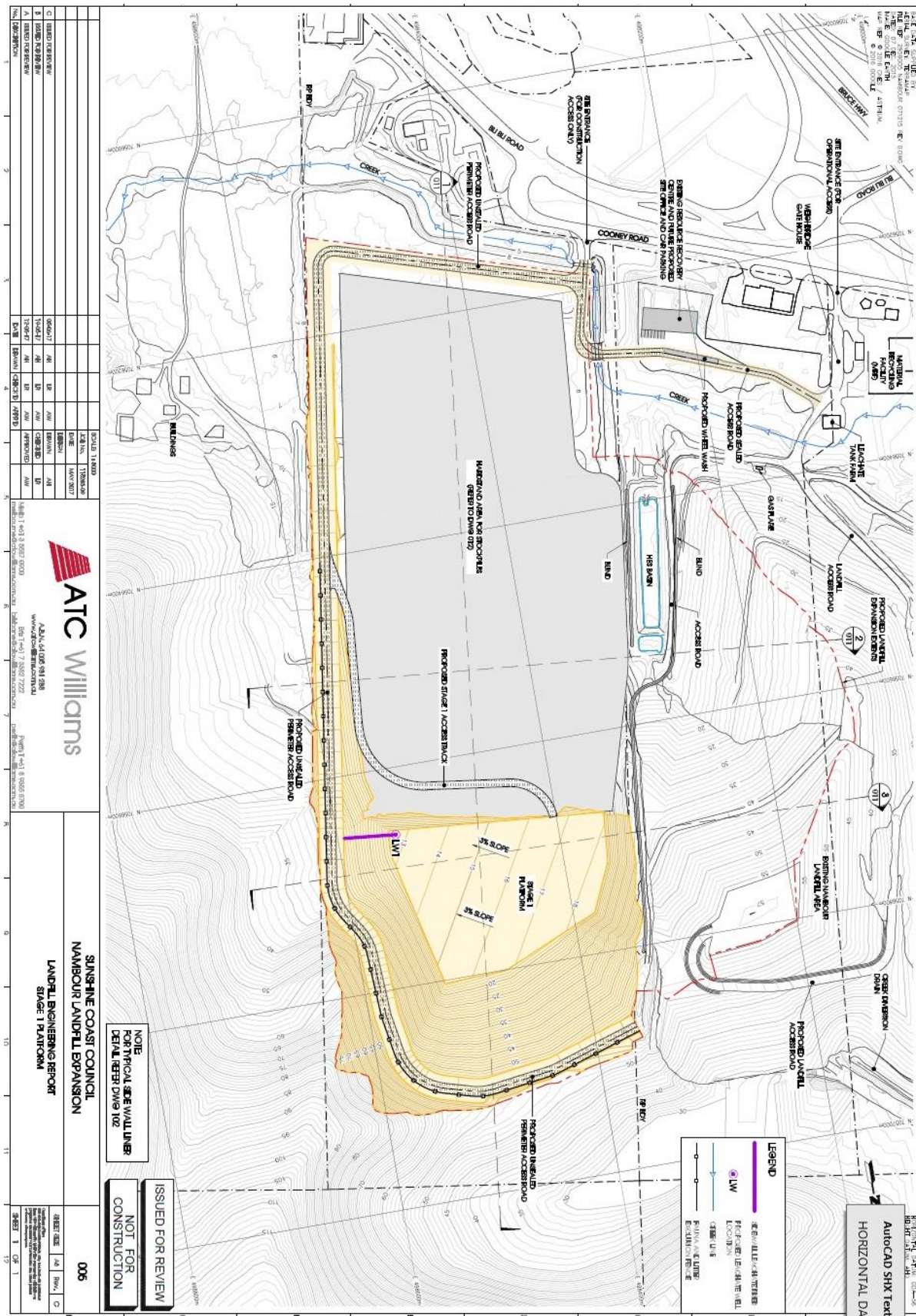
| Agency interest: Noise       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------|
| Condition number             | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| <b>P3-N1</b>                 | <p><b>Blasting</b> activities must not exceed the limits for <b>peak particle velocity (ppv)</b> and air blast overpressure in <i>Table P3-N1—Blasting limits</i> when measured at any <b>sensitive place</b> or <b>commercial place</b> in accordance with the associated monitoring requirements.</p> <p style="text-align: center;"><b>Table P3-N1—Blasting limits</b></p> <table> <tr> <th>Blasting criteria</th><th>Blasting limits</th></tr> <tr> <td><b>Airblast overpressure</b></td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated<br/>and not greater than 120 dB (Linear) Peak at any time.</td></tr> <tr> <td>Ground <b>vibration ppv</b></td><td>5 mm/s <b>ppv</b> for 9 out of 10 consecutive blasts<br/>and not greater than 10 mm/s <b>ppv</b> at any time.</td></tr> </table> <p><b>Associated monitoring requirements:</b></p> <ol style="list-style-type: none"> <li>1. monitoring must be performed in accordance with the most recent edition of the <b>administering authority's Noise and Vibration from Blasting guideline</b> and any relevant <i>Australian Standard</i>; and</li> <li>2. all monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li> </ol> | Blasting criteria | Blasting limits | <b>Airblast overpressure</b> | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated<br>and not greater than 120 dB (Linear) Peak at any time. | Ground <b>vibration ppv</b> | 5 mm/s <b>ppv</b> for 9 out of 10 consecutive blasts<br>and not greater than 10 mm/s <b>ppv</b> at any time. |
| Blasting criteria            | Blasting limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| <b>Airblast overpressure</b> | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated<br>and not greater than 120 dB (Linear) Peak at any time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| Ground <b>vibration ppv</b>  | 5 mm/s <b>ppv</b> for 9 out of 10 consecutive blasts<br>and not greater than 10 mm/s <b>ppv</b> at any time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| <b>P3-N2</b>                 | <b>Blasting</b> must be carried out in accordance with the current edition of the <b>administering authority's Noise and vibration from blasting</b> guideline and with <i>Australian Standard 2187</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| <b>P3-N3</b>                 | Unless prior approval is obtained from the <b>administering authority</b> : <ol style="list-style-type: none"> <li>1. <b>blasting</b> is only permitted during the hours of 9 am to 3 pm Monday to Friday, and from 9 am to 1 pm on Saturdays; and</li> <li>2. <b>blasting</b> is not permitted at any time on Sundays or public holidays.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |
| <b>P3-N4</b>                 | When required by the <b>administering authority</b> , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table P3-N1—Blasting limits</i> at any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                   |                 |                              |                                                                                                                             |                             |                                                                                                              |

## Part 1 Attachments – 1. Approved plans

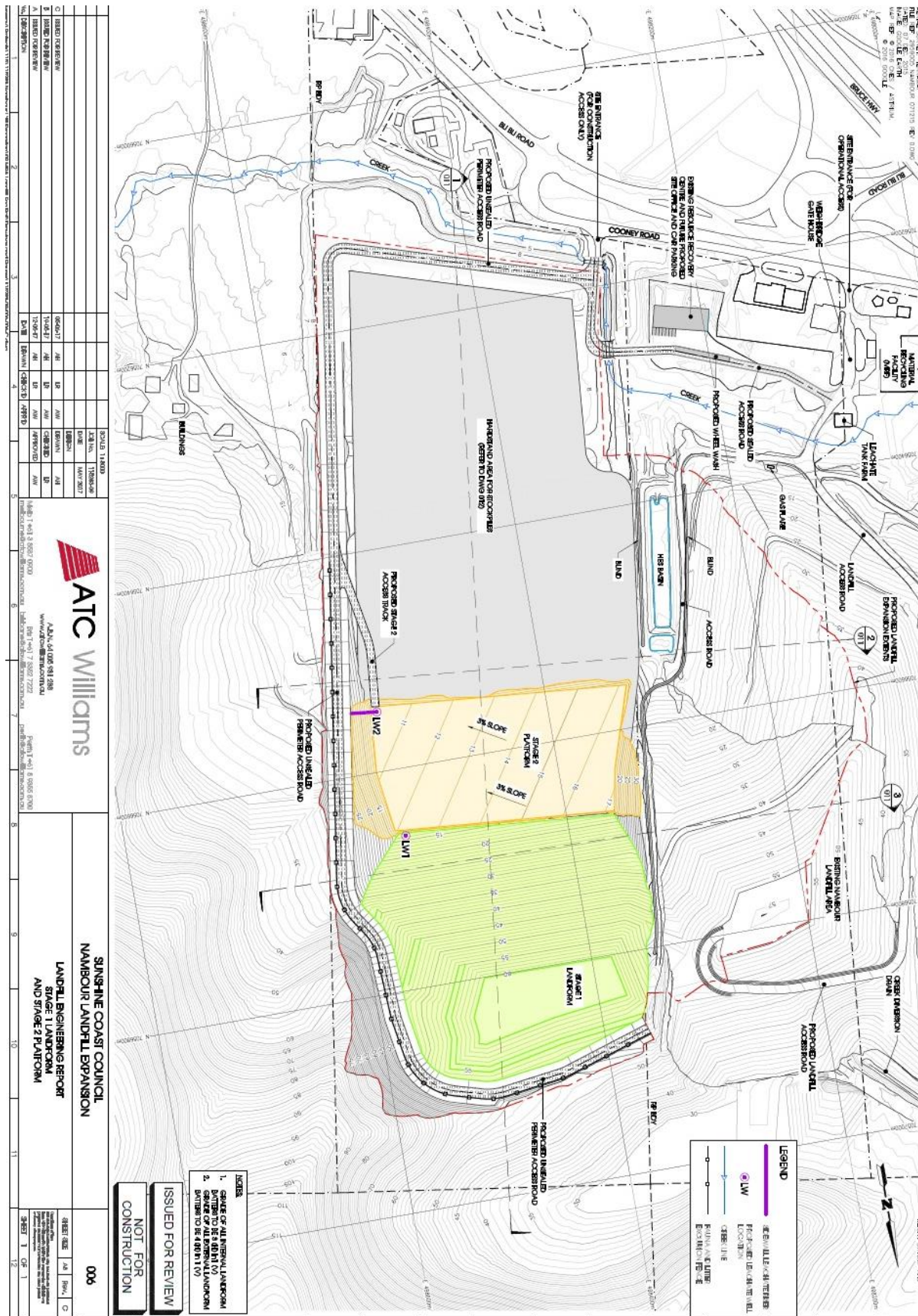
Landfill Engineering Report Proposed Infrastructure and Site Access prepared by ATC Williams dated 05-06-17,  
plan reference number 003 and version C;



Landfill Engineering Report Stage 1 Platform prepared by ATC Williams dated 05-06-17, plan reference number 005 and version C;



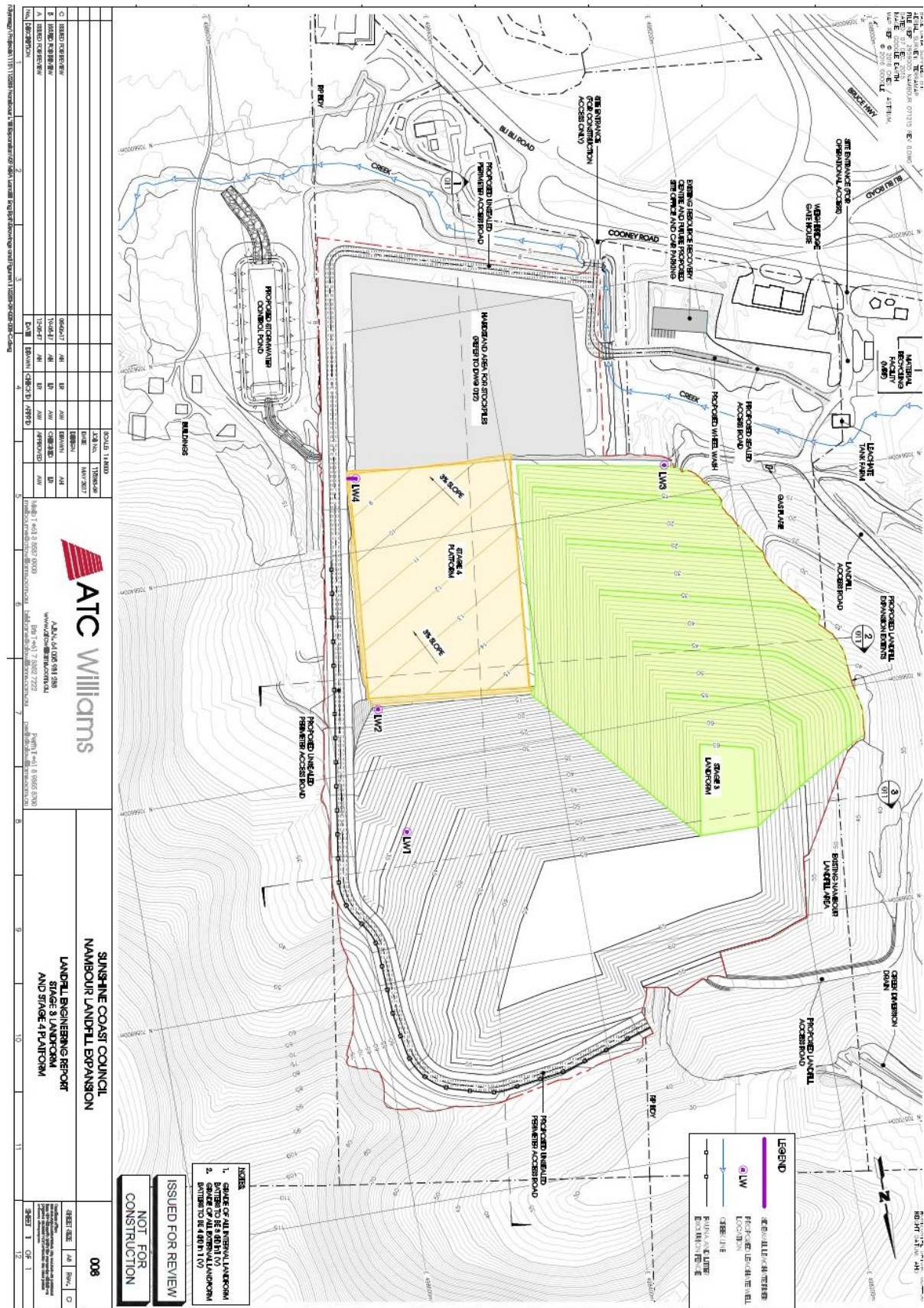
Landfill Engineering Report Stage 1 Landform and Stage 2 Platform prepared by ATC Williams dated 05-06-17, plan reference number 006 and version C;



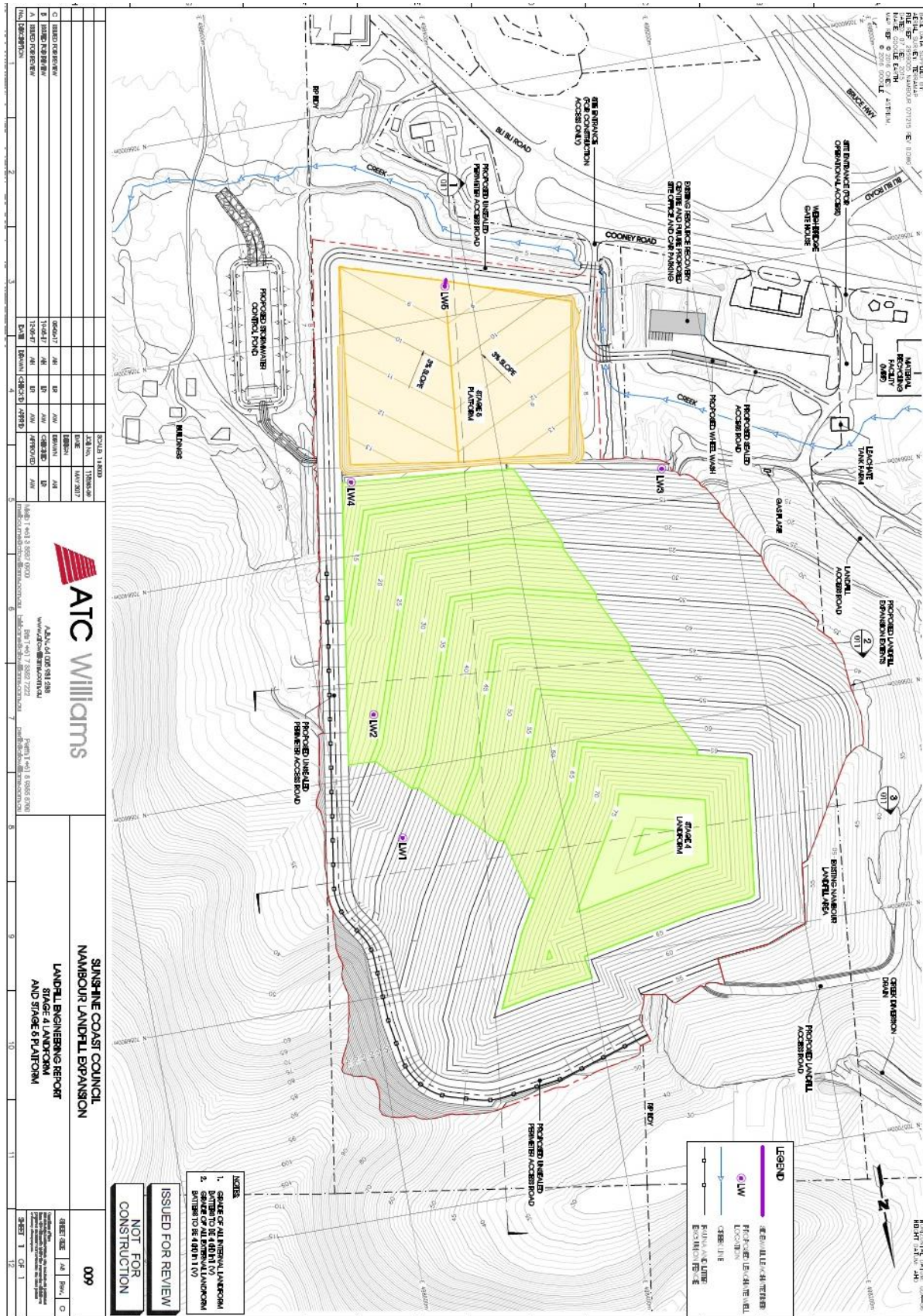
Landfill Engineering Report Stage 2 Landform and Stage 3 Platform prepared by ATC Williams dated 05-06-17, plan reference number 007 and version C;



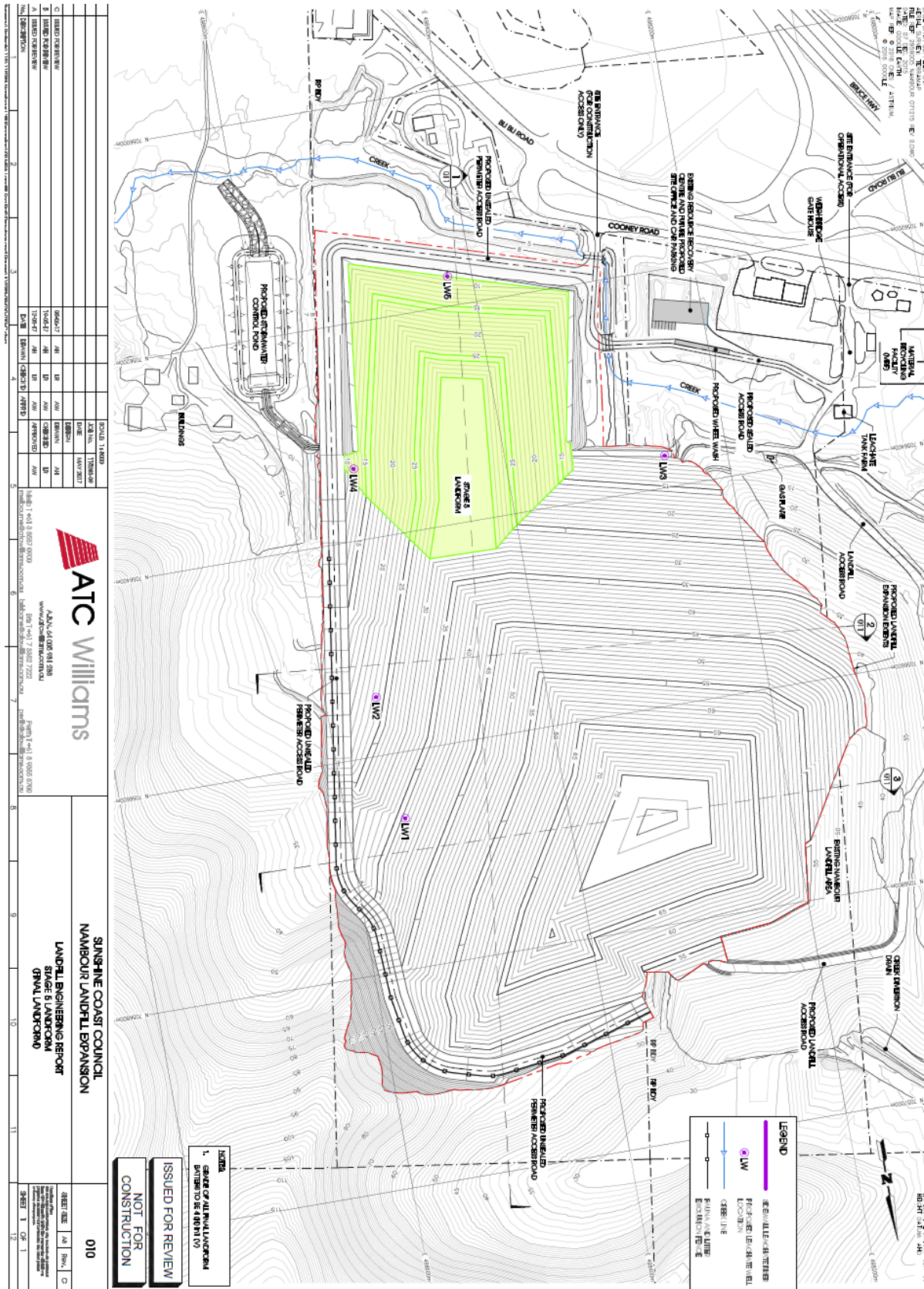
Landfill Engineering Report Stage 3 Landform and Stage 4 Platform prepared by ATC Williams dated 05-06-17, plan reference number 008 and version C;



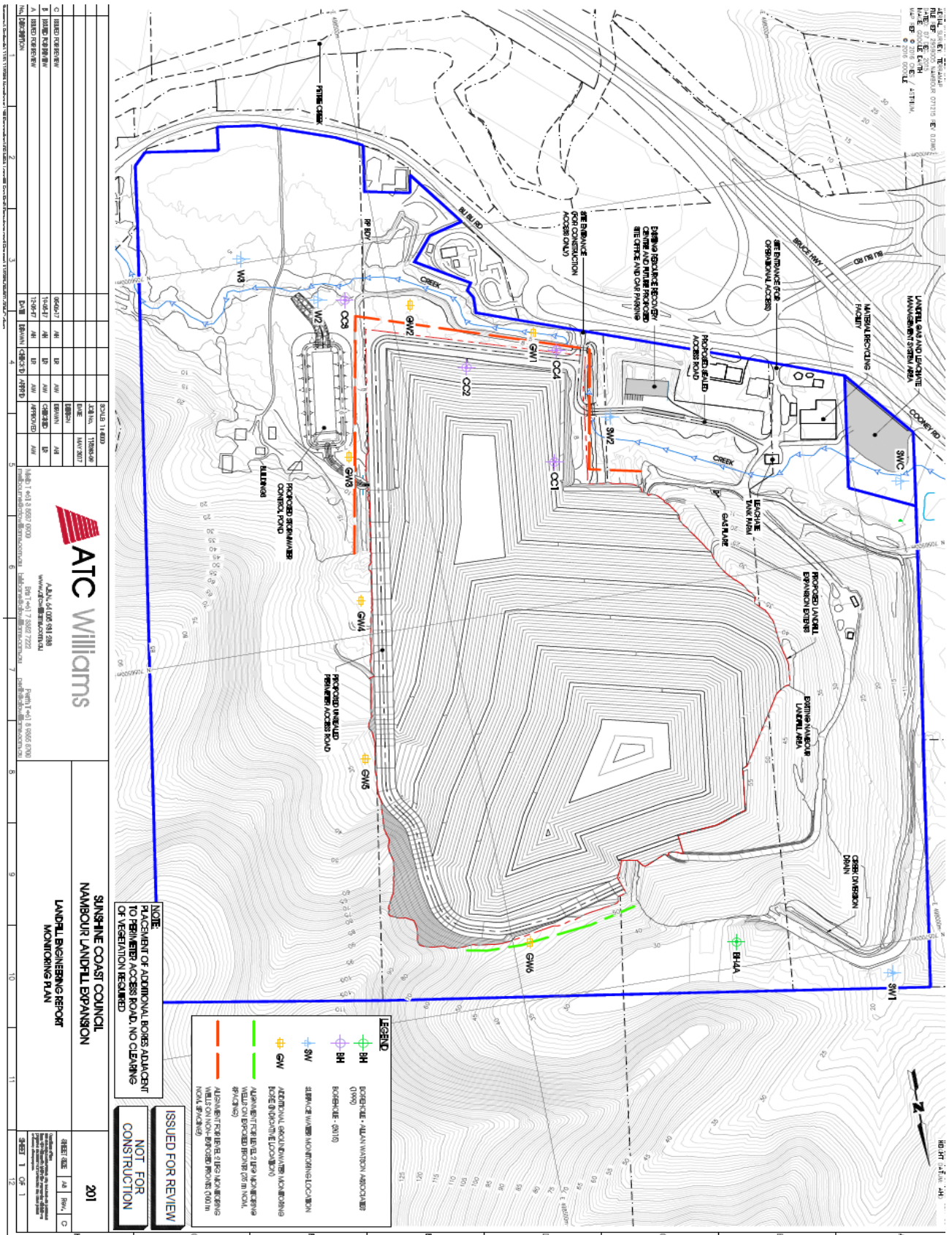
Landfill Engineering Report Stage 4 Landform and Stage 5 Platform prepared by ATC Williams dated 05-06-17, plan reference number 009 and version C;



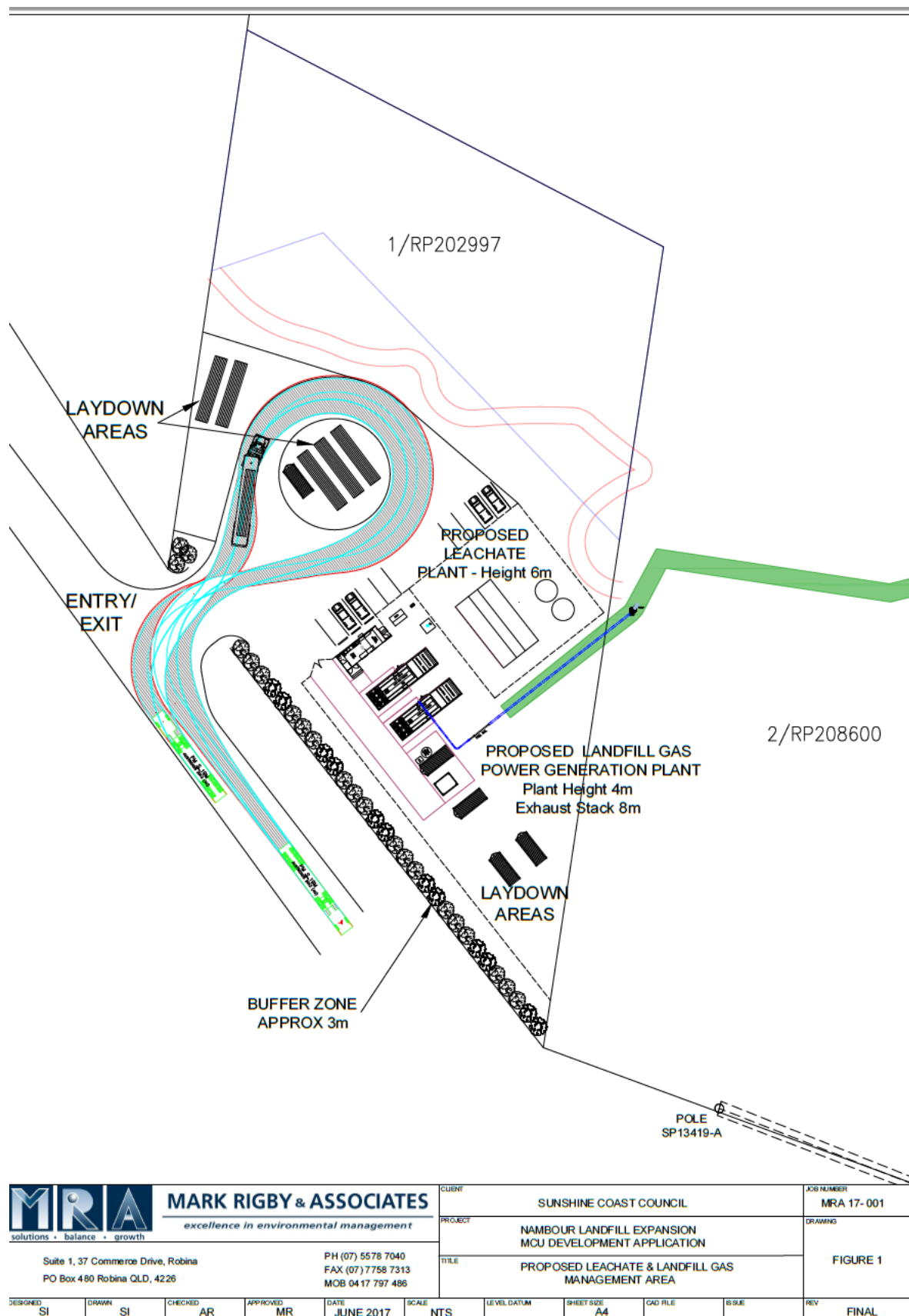
Landfill Engineering Report Stage 6 Landform (Final Landform) prepared by ATC Williams dated 05-06-17,  
plan reference number 010 and version C;



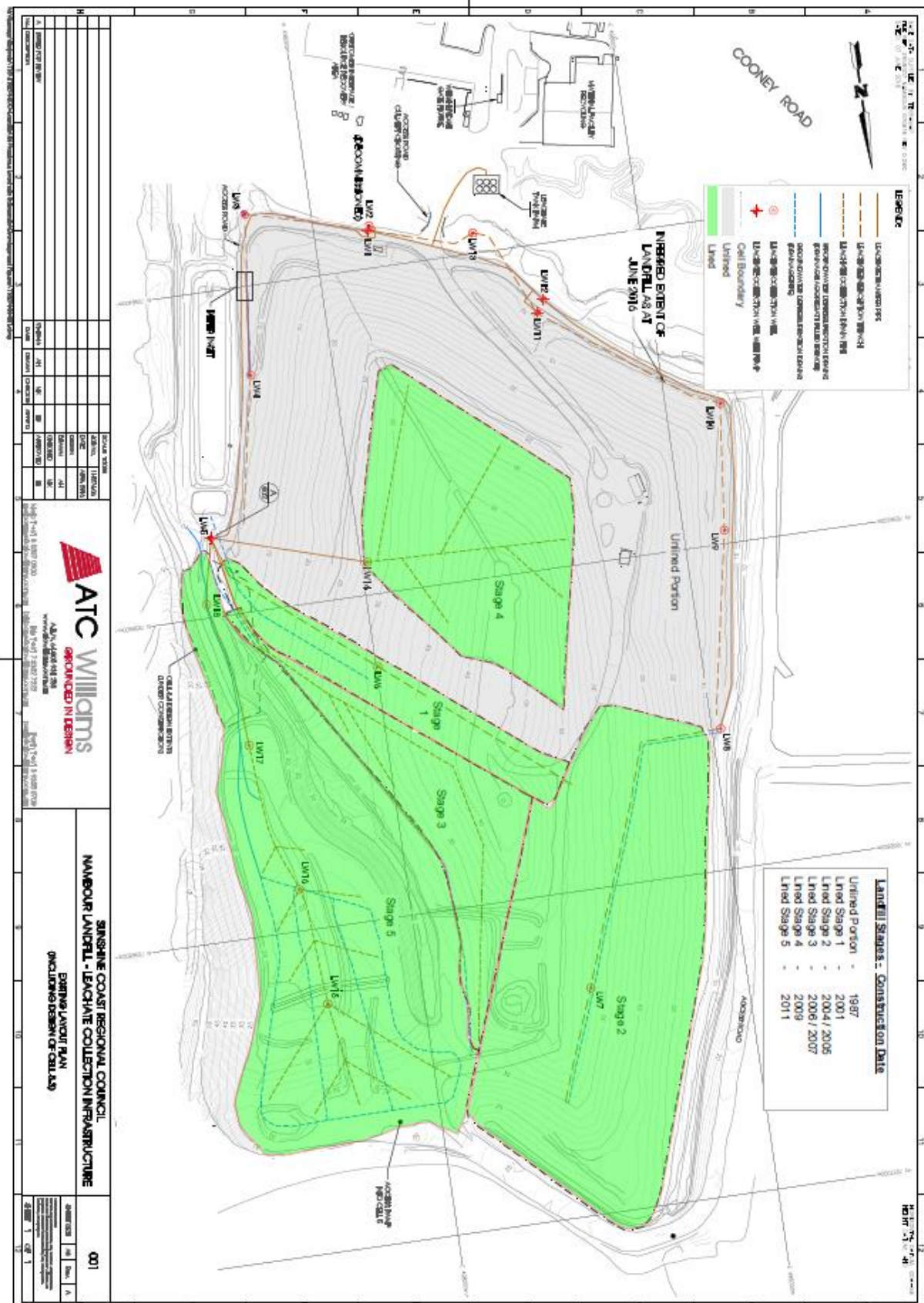
Landfill Engineering Report Report Monitoring Plan prepared by ATC Williams dated 05-06-17, plan reference number 201 and version C;



Proposed Leachate & Landfill Gas Management Area prepared by Mark Rigby & Associates dated June 2017, plan reference number MRA 17-001 Figure 1, Final.



## Nambour Landfill – Existing Layout Plan



## Part 1 Attachments – 2. Approved stormwater basins

Landfill Engineering Report Site Preparatory Works Stormwater Management prepared by ATC Williams dated 15/07/2020, plan reference number 300, Revision D.



#### Part 4 – Site Specific Conditions - Coolum Landfill

| Environmentally relevant activities                                             | Locations                                           |
|---------------------------------------------------------------------------------|-----------------------------------------------------|
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility | Toolborough Road, COOLUM QLD 4562<br>Lot 3 RP158158 |

The environmentally relevant **activity** conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P4-G1                    | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the <b>activity</b> .                                                                                                                                                                                                                                                                                                                                      |
| P4-G2                    | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable within 24 hours of becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions taken.                                                                                                                                                                                 |
| P4-G3                    | Telephone the department's Pollution Hotline or local office as soon as practicable after becoming aware of any <b>release</b> of contaminants not in accordance with the conditions of this approval.                                                                                                                                                                                                                                                                      |
| P4-G4                    | <p><b>The activity</b> under Part 4 of this environmental authority must be conducted in accordance with the following limitations:</p> <ol style="list-style-type: none"> <li>1. permit <b>activities</b> are limited to the Coolum Landfill of Lot 3 RP158158; and</li> <li>2. waste must not be accepted at the <b>landfill facility</b>; and</li> <li>3. only rehabilitation and maintenance activities including monitoring are authorised at the facility.</li> </ol> |
| P4-G5                    | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                                                                                                                                                                           |
| P4-G6                    | All <b>records</b> that are required by the conditions of this environmental authority must be kept for a <b>minimum</b> of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All <b>records</b> required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request.                                                                               |
| P4-G7                    | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitoring by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                               |
| P4-G8                    | All analyses required under this environmental authority must be carried out by a laboratory that has <b>NATA</b> certification, or an equivalent certification, for such analyses.                                                                                                                                                                                                                                                                                         |
| P4-G9                    | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint of <b>environmental nuisance</b> arising from the <b>activity</b> . The monitoring results must be provided within 10 business <b>days</b> to the <b>administering authority</b> upon its request.                                                                                          |

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| <b>P4-G10</b>               | <p><b>Annual Monitoring Report</b></p> <p>Any monitoring data compiled, collected or recorded as required by conditions of this environmental authority for:</p> <ul style="list-style-type: none"> <li>- ambient air monitoring;</li> <li>- surface water monitoring and the water quality releases to surface water;</li> <li>- <b>groundwater</b> monitoring program; and</li> <li>- <b>leachate</b> monitoring;</li> </ul> <p>must be evaluated, summarised and compiled into a report on an annual basis (the Annual Monitoring Report).</p>                                                                                                                                                                                                                                                                                                                               |
| <b>P4-G11</b>               | <p><b>You</b> must record all the following details for all environmental complaints received:</p> <ol style="list-style-type: none"> <li>1. date and time complaint was received;</li> <li>2. name and contact details of the complainant;</li> <li>3. nature of the complaint;</li> <li>4. investigations undertaken;</li> <li>5. conclusions formed; and</li> <li>6. actions taken.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>P4-G12</b>               | <p>The <b>activity</b> must be undertaken in accordance with written procedures that:</p> <ol style="list-style-type: none"> <li>1. identify potential risks to the <b>environment</b> from the <b>activity</b> during routine <b>operations</b>, closure and an emergency; and</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for <b>environmental harm</b>; and</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition; and</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner; and</li> <li>5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and</li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |
| <b>P4-G13</b>               | <p>Following cessation of deposition of waste in the <b>landfill facility</b>, post-closure care of <b>the landfill facility</b> must be conducted for a period of 30 years or until the operator demonstrates that the <b>landfill facility</b> and surrounding <b>site</b> are stable and that no <b>release</b> of waste materials, <b>leachate</b>, landfill gas or other contaminants that may cause <b>environmental harm</b> is likely.</p>                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>P4-G14</b>               | <p><b>Measures</b> must be taken to prevent unauthorised access to the <b>site</b> to which this approval relates.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Agency interest: Air</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Condition number</b>     | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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| <b>P4-A1</b>                  | Other than as permitted within this environmental authority, odours or airborne <b>contaminants</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P4-A2</b>                  | A <b>receiving environment monitoring program</b> must be designed and implemented by an <b>appropriately qualified person(s)</b> to monitor the effects of the <b>activity</b> on the <b>environmental values</b> of the air environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Agency interest: Water</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P4-WT1</b>                 | <b>Contaminants</b> must not be <b>released</b> to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P4-WT2</b>                 | A liner system must be installed and maintained to: <ol style="list-style-type: none"> <li>1. prevent <b>release</b> of contaminants, including <b>leachate</b>, to <b>land</b> and <b>waters</b>; and</li> <li>2. prevent subsurface migration of landfill gas from the <b>landfill unit</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P4-WT3</b>                 | The only contaminants permitted to be <b>released</b> from any sedimentation pond to any <b>waters</b> is settled stormwater runoff that has not been in contact with waste or <b>leachate</b> due to rainfall at the approved place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P4-WT4</b>                 | A <b>receiving environment monitoring program</b> must be designed and implemented by an <b>appropriately qualified person(s)</b> to monitor the effects of the <b>activity</b> on <b>surface water</b> and <b>groundwater</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P4-WT5</b>                 | A <b>groundwater</b> monitoring network must be installed for each <b>landfill unit</b> . The network must be: <ol style="list-style-type: none"> <li>1. installed and maintained by a person possessing appropriate qualifications and experience in the fields of hydrogeology and <b>groundwater</b> monitoring program design to be able to competently make recommendations about these matters; and</li> <li>2. include a sufficient number of 'bore(s) of compliance' that are located not more than 150 metres from the <b>landfill unit</b> or the boundary of the <b>landfill facility</b> whichever is the closer, and provides the following: <ol style="list-style-type: none"> <li>a) representative <b>groundwater</b> samples from each potentially affected aquifer; and</li> <li>b) determination of background <b>groundwater</b> quality in hydraulically upgradient locations or, if this is not practicable, background bore(s) sampling equivalent local aquifer(s) that have not been affected by any <b>release</b> of contaminants to <b>groundwaters</b>; and</li> <li>c) determination of the quality of <b>groundwater</b> down gradient of any <b>release</b> of contaminants to <b>groundwater</b> including <b>groundwater</b> passing the relevant bore(s) of compliance.</li> </ol> </li> </ol> |

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| <b>P4-WT6</b> | <p>The registered operator of the <b>activity</b> must monitor and record quality of <b>groundwater</b> to detect any possible <b>release(s)</b> of contaminants. All determinations of contaminant <b>releases</b> must be:</p> <ol style="list-style-type: none"> <li>1. made in accordance with methods prescribed in the latest edition of the Department of Environment, Science and Innovation Water Quality Sampling Manual; and</li> <li>2. undertaken before, during, after deposition of waste in the <b>landfill unit</b>; and</li> <li>3. conducted at least at the frequency every three (3) months, locations determined by the <b>groundwater</b> monitoring network and for the following water quality characteristics: <ol style="list-style-type: none"> <li>a) Ammonia (as N)</li> <li>b) Carbonate/Bicarbonate (CO<sub>3</sub>/HCO<sub>3</sub>)</li> <li>c) Calcium</li> <li>d) Chloride</li> <li>e) Iron (total)</li> <li>f) Manganese (dissolved)</li> <li>g) Oxidised Nitrogen (as N)</li> <li>h) pH (field measured)</li> <li>i) Potassium</li> <li>j) Sodium</li> <li>k) Sulphate</li> <li>l) Specific conductance</li> <li>m) Total Organic Carbon (TOG)</li> <li>n) Zinc</li> <li>o) Magnesium</li> </ol> </li> </ol> |
| <b>P4-WT7</b> | <p>The registered operator of the <b>activity</b> must produce suitable spreadsheets and charts to display and facilitate interpretation of the monitoring results to enable comparisons against the <b>groundwater</b> quality limits and trigger levels prescribed in P4-WT19 and P4-WT21.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P4-WT8</b> | <p>In association with <b>groundwater</b> monitoring, the registered operator of the <b>activity</b> must monitor and record quality of <b>leachate</b> (where present) in <b>landfill units</b> for the same water quality characteristics and using the same sampling protocols employed in <b>groundwater</b> monitoring. If no <b>leachate</b> is present in a <b>landfill unit</b> sump at the time of monitoring, a record of "no <b>leachate</b> present" is to be recorded.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>P4-WT9</b>  | <p>The registered operator of the <b>activity</b> must monitor and record the quality of surface water at points upstream and downstream of the <b>landfill facility</b> to detect any possible <b>release(s)</b> of contaminants in accordance with the surface water monitoring program. The surface water monitoring program must be undertaken for, at least, the following water quality characteristics:</p> <ol style="list-style-type: none"> <li>1) pH (in-situ field measurement)</li> <li>2) Dissolved oxygen (in-situ field measurement)</li> <li>3) Specific conductance and salinity (in-situ field measurement)</li> <li>4) Turbidity (in-situ field measurement)</li> <li>5) Temperature (in-situ field measurement)</li> <li>6) General observations of receiving water upstream and downstream including presence absence of any slicks, algal blooms, discolouration, and indications of <b>leachate</b> such as iron staining.</li> <li>7) Daily rainfall as recorded at the nearest rainfall measuring station that reports that data to the Commonwealth Bureau of Meteorology or by an appropriately operated and maintained rainfall gauge located at the approved place.</li> <li>8) Ammonia (as N)</li> <li>9) Carbonate/Bicarbonate (<math>\text{CO}_3/\text{HCO}_3</math>)</li> <li>10) Calcium</li> <li>11) Chloride</li> <li>12) Iron (total)</li> <li>13) Manganese (dissolved)</li> <li>14) Oxidised Nitrogen (as N)</li> <li>15) Phosphorus (total)</li> <li>16) Potassium</li> <li>17) Sodium</li> <li>18) Sulphate</li> <li>19) Total Organic Carbon (TOC)</li> <li>20) Zinc</li> <li>21) Magnesium</li> </ol> |
| <b>P4-WT10</b> | <p>The registered operator of the <b>activity</b> must monitor and record the surface water quality, as often as is necessary, but not less frequently than quarterly for the characteristics required in items (1 to 21) as required in condition P4-WT9.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P4-WT11</b> | <p>A sedimentation pond or ponds must be installed and maintained to collect and treat stormwater runoff from those parts of the place to which this environmental authority relates from which stormwater runoff is likely to be contaminated by sediment, for example, <b>disturbed areas</b>, areas of construction and areas in which any earthen material is stored.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>P4-WT12</b> | <p>The controlled release of treated/settled stormwater must be conducted in a way and at a rate that does not cause:</p> <ol style="list-style-type: none"> <li>1. re-suspension of particles;</li> <li>2. erosion of bed or banks of receiving <b>waters</b>;</li> <li>3. landscape damage;</li> <li>4. ponding of the water; or</li> <li>5. vegetation damage.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| P4-WT13                 | <p>A <b>leachate</b> collection system must be installed and maintained, to effectively and efficiently:</p> <ol style="list-style-type: none"><li>1. collect <b>leachate</b> generated in the <b>landfill unit(s)</b>; and</li><li>2. convey the collected <b>leachate</b> out of the <b>landfill unit(s)</b> to an appropriate <b>leachate</b> storage facility; and</li><li>3. minimise the height of the <b>leachate</b> above the floor of any <b>landfill unit</b>.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |               |                                                                                                                             |            |                      |                         |    |   |         |                                                                                                                             |
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| P4-WT14                 | <p>All ponds used for the storage or treatment of contaminants (including <b>leachate</b> and storm water runoff which has been in contact with waste materials) at or on the place to which this environmental authority relates must be constructed, installed and maintained:</p> <ol style="list-style-type: none"><li>1. so as to minimise the likelihood of any <b>release</b> of contaminants through the bed or banks of the pond to any <b>waters</b> (including ground water); and</li><li>2. so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and</li><li>3. so as to ensure the stability of the ponds' construction.</li></ol>                                                                                                                                                                                                                                                                      |                         |               |                                                                                                                             |            |                      |                         |    |   |         |                                                                                                                             |
| P4-WT15                 | <p>Contaminants must not be directly or indirectly <b>released</b> from any source on the place to which this environmental authority relates to any <b>waters</b> at any location other than the contaminants and sources at the locations listed below:</p> <ol style="list-style-type: none"><li>1. release point R1 settled stormwater runoff <b>waters</b> released via overflow spillway from the sedimentation pond that collects stormwater runoff contaminated by sediment at the place to which this environmental authority relates, to <b>waters</b> described as the southern drain that traverses the approved place, at a location identified as 'R1'.</li></ol>                                                                                                                                                                                                                                                                                    |                         |               |                                                                                                                             |            |                      |                         |    |   |         |                                                                                                                             |
| P4-WT16                 | <p>The <b>release</b> of contaminants to <b>waters</b> must comply with the following qualitative characteristics:</p> <ol style="list-style-type: none"><li>1. comply with the quality characteristics limits in <i>Table P4-WT16 – Release Limits</i>; and</li><li>2. the release must not have any properties or contain any organisms or other contaminants which, in the opinion of the <b>administering authority</b>, are capable of causing environmental harm or <b>environmental nuisance</b>.</li></ol> <p style="text-align: center;"><b>Table P4-WT16 - Release Limits</b></p> <table><tr><th>Quality Characteristics</th><th>Release Point</th><th>Release Limit</th><th>Limit Type</th><th>Monitoring Frequency</th></tr><tr><td>Dissolved Oxygen (mg/L)</td><td>R1</td><td>6</td><td>Minimum</td><td>At least once per quarter in the event of a release. If no release occurs in the quarterly period, no sampling is required.</td></tr></table> | Quality Characteristics | Release Point | Release Limit                                                                                                               | Limit Type | Monitoring Frequency | Dissolved Oxygen (mg/L) | R1 | 6 | Minimum | At least once per quarter in the event of a release. If no release occurs in the quarterly period, no sampling is required. |
| Quality Characteristics | Release Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Release Limit           | Limit Type    | Monitoring Frequency                                                                                                        |            |                      |                         |    |   |         |                                                                                                                             |
| Dissolved Oxygen (mg/L) | R1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6                       | Minimum       | At least once per quarter in the event of a release. If no release occurs in the quarterly period, no sampling is required. |            |                      |                         |    |   |         |                                                                                                                             |
| P4-WT17                 | <p>Monitoring must be undertaken and <b>records</b> kept of contaminant <b>releases</b> to <b>waters</b> from the discharge location for the parameters and not less frequently than specified in <i>Table P4-WT16 – Release Limits</i>. All determinations of the quality of contaminants <b>released</b> must be:</p> <ol style="list-style-type: none"><li>1. made in accordance with methods prescribed in the latest edition of the Department of Environment, Science and Innovation Water Quality Sampling Manual; and</li><li>2. carried out on samples that are representative of the discharge</li></ol>                                                                                                                                                                                                                                                                                                                                                 |                         |               |                                                                                                                             |            |                      |                         |    |   |         |                                                                                                                             |
| P4-WT18                 | <p>The only contaminants to be <b>released</b> to <b>groundwater</b> are <b>releases</b> of <b>leachate</b> provided that such <b>releases</b> are minimised by taking all reasonable and practicable <b>measures</b> to minimise <b>leachate</b> generation and <b>leachate release</b>, for example lining systems and <b>leachate</b> collection systems.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                         |               |                                                                                                                             |            |                      |                         |    |   |         |                                                                                                                             |

| P4-WT19                           | <p>Notwithstanding condition P4-WT18, the <b>release</b> of contaminants to <b>groundwater</b> must not:</p> <ol style="list-style-type: none"><li>1. cause environmental harm; or</li><li>2. cause surface expression of any <b>leachate</b> that may be <b>released</b> to any surface <b>waters</b> or storm water drains; or</li><li>3. exceed the limits for the quality characteristics prescribed in <i>Table P4-WT19 - Groundwater Quality Limits</i> at or beyond the edge of the <b>groundwater</b> attenuation zone delineated by the bores of compliance in condition P4-WT5.</li></ol> <p style="text-align: center;"><b>Table P4-WT19 - Groundwater Quality Limits</b></p> <table><tr><th>Quality Characteristic</th><th>Limit</th><th>Limit Type</th></tr><tr><td>Ammonia (as N) <b>mg/L</b></td><td>120% of highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td>Manganese (dissolved) <b>mg/L</b></td><td>120% of highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td rowspan="2">pH (field measured)</td><td>0.5 pH units more than the highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td>0.5 pH units less than the highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td>Sulphate <b>mg/L</b></td><td>120% of highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td>Total Organic Carbon <b>mg/L</b></td><td>120% of highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr><tr><td>Zinc <b>mg/L</b></td><td>120% of highest background value<sup>1</sup></td><td><b>Maximum</b></td></tr></table> <p><b>Notes:</b></p> <p><sup>1</sup>"Highest background value" means the highest monitored value of the water quality characteristic, measured in that aquifer from the last eight quarterly sampling results at the corresponding hydraulically up-gradient or background monitoring site in the <b>groundwater monitoring system</b>, as required under this environmental authority.</p> | Quality Characteristic                                       | Limit               | Limit Type    | Ammonia (as N) <b>mg/L</b> | 120% of highest background value <sup>1</sup> | <b>Maximum</b>                                               | Manganese (dissolved) <b>mg/L</b> | 120% of highest background value <sup>1</sup> | <b>Maximum</b> | pH (field measured) | 0.5 pH units more than the highest background value <sup>1</sup> | <b>Maximum</b> | 0.5 pH units less than the highest background value <sup>1</sup> | <b>Maximum</b> | Sulphate <b>mg/L</b> | 120% of highest background value <sup>1</sup> | <b>Maximum</b> | Total Organic Carbon <b>mg/L</b> | 120% of highest background value <sup>1</sup> | <b>Maximum</b> | Zinc <b>mg/L</b> | 120% of highest background value <sup>1</sup> | <b>Maximum</b> |
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| Quality Characteristic            | Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limit Type                                                   |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Ammonia (as N) <b>mg/L</b>        | 120% of highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Manganese (dissolved) <b>mg/L</b> | 120% of highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| pH (field measured)               | 0.5 pH units more than the highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
|                                   | 0.5 pH units less than the highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Sulphate <b>mg/L</b>              | 120% of highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Total Organic Carbon <b>mg/L</b>  | 120% of highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Zinc <b>mg/L</b>                  | 120% of highest background value <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Maximum</b>                                               |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| P4-WT20                           | <p>The holder must monitor <b>groundwater</b> quality for the quality characteristics in <i>Table P4-WT21 Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i> in aquifers potentially affected by the <b>activity</b> in bores hydraulically down gradient of the land-filled waste for deviations in <b>groundwater</b> quality trending away from that monitored in corresponding hydraulically up-gradient or background locations, as required under conditions P4-WT6 (termed early warning indicator monitoring).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                              |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| P4-WT21                           | <p>For the purposes of complying with condition P4-WT20, the holder must make comparisons, for the quality characteristics in <i>Table P4-WT21 Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i>, between <b>median groundwater</b> quality in aquifers potentially affected by the <b>activity</b> in bores hydraulically down gradient of the land-filled waste (test site statistic) against the <b>80<sup>th</sup> percentile</b> of monitoring results (trigger level) for <b>groundwater</b> quality in corresponding hydraulically up-gradient or background locations, as required under conditions P4-WT5.</p> <p style="text-align: center;"><b>Table P4-WT21 Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</b></p> <table><tr><th>Quality Characteristic</th><th>Test Site Statistic</th><th>Trigger Level</th></tr><tr><td>Ammonia (as N) <b>mg/L</b></td><td><b>Median</b> of test site<sup>1</sup></td><td><b>80<sup>th</sup> percentile</b> of background<sup>2</sup></td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Quality Characteristic                                       | Test Site Statistic | Trigger Level | Ammonia (as N) <b>mg/L</b> | <b>Median</b> of test site <sup>1</sup>       | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Quality Characteristic            | Test Site Statistic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Trigger Level                                                |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |
| Ammonia (as N) <b>mg/L</b>        | <b>Median</b> of test site <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |                     |               |                            |                                               |                                                              |                                   |                                               |                |                     |                                                                  |                |                                                                  |                |                      |                                               |                |                                  |                                               |                |                  |                                               |                |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Carbonate/Bicarbonate (CO <sub>3</sub> /HCO <sub>3</sub> ) <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Calcium <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chloride <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Iron (total) <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Manganese (dissolved) <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nitrate (as N) <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | pH (field measured)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>Median</b> of test site <sup>1</sup> | <b>20<sup>th</sup> percentile</b> of background <sup>3</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Potassium <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sodium <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Sulphate <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Specific conductance µS/cm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Total Organic Carbon <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Zinc <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Magnesium <b>mg/L</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Median</b> of test site <sup>1</sup> | <b>80<sup>th</sup> percentile</b> of background <sup>2</sup> |
| <b>Notes:</b><br><br><sup>1</sup> " <b>median</b> of test site" means the running <b>median</b> value for the hydraulically down-gradient test site, calculated from the most recent 8 quarterly <b>groundwater</b> monitoring results as required under this environmental authority. If less than 8 results are available, the running <b>median</b> is to be calculated once two or more consecutive results are available, using available data, until the full 8 results are available.<br><br><sup>2</sup> " <b>80th percentile</b> of background" means the running <b>80th percentile</b> value for the relevant hydraulically up-gradient or background monitoring site calculated from the most recent 8 quarterly <b>groundwater</b> monitoring results as required under this environmental authority. If less than 8 results are available, the running <b>median</b> is to be calculated once two or more consecutive results are available, using available data, until the full 8 results are available.<br><br><sup>3</sup> " <b>20th percentile</b> of background" means the running <b>20th percentile</b> value calculated from of the same data set used to calculate the 80th percentile of background value. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |                                                              |
| <b>P4-WT22</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | In the event that comparison in condition P4-WT21 shows that any <b>groundwater</b> quality trigger levels prescribed in <i>Table P4-WT21 Groundwater Quality Trigger Levels for Early Warning Indicator Monitoring</i> have been exceeded, then the holder must carry out the following actions:<br><br>1. report the breach of the early warning trigger level(s) to the <b>administering authority</b> ; and<br><br>2. conduct an investigation (considered appropriate by the holder) of the breach and keep <b>records</b> of the outcomes of the investigation. |                                         |                                                              |
| <b>Agency interest: Land</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |                                                              |
| <b>Condition number</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |                                                              |
| <b>P4-L1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Land</b> that has been <b>disturbed</b> for <b>activities</b> conducted under this environmental authority must be rehabilitated in a manner such that:                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |                                                              |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <p>suitable species of vegetation for the location are established and sustained for earthen surfaces; and</p> <p>potential for erosion is minimised; and</p> <p>the quality of water, including seepage, released from the <b>site</b> does not cause <b>environmental harm</b>; and</p> <p>potential for <b>environmental nuisance</b> caused by dust is minimised; and</p> <p>the water quality of any residual water body does not have potential to cause <b>environmental harm</b>; and the final landform is stable and protects public safety; and</p> <p>the contaminant concentrations within the final capping layer are appropriate for the final <b>land</b> use and in accordance with the latest edition of the '<i>National Environmental Protection (Assessment of Soil Contamination) Measure</i>'.</p> |
| <b>P4-L2</b>                  | <p>The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include <b>measures</b> to:</p> <ol style="list-style-type: none"> <li>1. maintain the structural integrity and effectiveness of the final capping system;</li> <li>2. maintain and operate the <b>leachate</b> collection system; and</li> <li>3. maintain the <b>groundwater monitoring system</b> and monitor quality of <b>groundwater</b> at a frequency sufficient to detect any <b>release</b> of contaminants to <b>groundwater</b>.</li> </ol>                                                                                                                                                                                             |
| <b>Agency interest: Noise</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P4-N1</b>                  | Noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P4-W1</b>                  | <p>Post-closure care of the <b>landfill unit</b> must be conducted following deposition of waste in the <b>landfill unit</b>, for:</p> <ol style="list-style-type: none"> <li>1. a period of 30 years; or</li> <li>2. such shorter period until the <b>landfill unit</b> and surrounding <b>site</b> are <b>geotechnically stable</b> and that no <b>release</b> of waste materials, <b>leachate</b>, landfill gas or other contaminants to the <b>environment</b> is likely.</li> </ol>                                                                                                                                                                                                                                                                                                                                  |

## Part 5 – Site Specific Conditions - Glasshouse Mountains Facility

| Environmentally relevant activities                                             | Locations                                                                                      |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| ERA 60 - Waste disposal 4: Maintaining a decommissioned waste disposal facility | Mt Beerwah Road GLASS HOUSE MOUNTAINS QLD 4518<br>Lot 18 Plan RP835978 and Lot 933 Plan CG4274 |

The environmentally relevant **activity** conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P5-G1                    | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the <b>activity</b> .                                                                                                                                                                                                                                                                                                                                                                          |
| P5-G2                    | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable within 24 hours of becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions taken.                                                                                                                                                                                                                     |
| P5-G3                    | Telephone the department's Pollution Hotline or local office as soon as practicable after becoming aware of any <b>release</b> of contaminants not in accordance with the conditions of this approval.                                                                                                                                                                                                                                                                                                          |
| P5-G4                    | <b>Activities</b> under Part 5 of this environmental authority must be conducted in accordance with the following limitations: <ol style="list-style-type: none"> <li>1. permit <b>activities</b> are limited to the Glass House Mountains Landfill of Lot 18 Plan RP835978 and Lot 933 Plan CG4274; and</li> <li>2. waste must not be accepted at the <b>landfill facility</b>; and</li> <li>3. only rehabilitation and maintenance activities including monitoring are authorised at the facility.</li> </ol> |
| P5-G5                    | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                                                                                                                                                                                                               |
| P5-G6                    | All <b>records</b> that are required by the conditions of this environmental authority must be kept for a <b>minimum</b> of five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All <b>records</b> required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request.                                                                                                                   |
| P5-G7                    | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitoring by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                                                                   |
| P5-G8                    | All analyses required under this environmental authority must be carried out by a laboratory that has <b>NATA</b> certification, or an equivalent certification, for such analyses.                                                                                                                                                                                                                                                                                                                             |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P5-G9  | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint of <b>environmental nuisance</b> arising from the <b>activity</b> . The monitoring results must be provided within 10 business days to the <b>administering authority</b> upon its request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| P5-G10 | <p><b>Annual Monitoring Report</b></p> <p>Any monitoring data compiled, collected or recorded as required by conditions of this environmental authority for:</p> <ul style="list-style-type: none"> <li>- ambient air monitoring;</li> <li>- surface water monitoring and the water quality releases to surface water;</li> <li>- <b>groundwater</b> monitoring program; and</li> <li>- <b>leachate</b> monitoring;</li> </ul> <p>must be evaluated, summarised and compiled into a report on an annual basis (the Annual Monitoring Report).</p>                                                                                                                                                                                                                                                                                                                               |
| P5-G11 | <p><b>You</b> must record all the following details for all environmental complaints received:</p> <ol style="list-style-type: none"> <li>1. date and time complaint was received;</li> <li>2. name and contact details of the complainant;</li> <li>3. nature of the complaint;</li> <li>4. investigations undertaken;</li> <li>5. conclusions formed; and</li> <li>6. actions taken.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P5-G12 | <p>A record must be maintained of events including but not limited to:</p> <ol style="list-style-type: none"> <li>1. any fire at the licensed place; and</li> <li>2. any <b>release</b> of <b>leachate</b> or stormwater runoff which has been in contact with any wastes and contaminants not likely to be in accordance with the conditions of this environmental authority to the receiving <b>waters</b>; and</li> <li>3. detection by the environmental monitoring program of any <b>release</b> of contaminants not likely to be in accordance with the conditions of this environmental authority, and</li> <li>4. incidents which have adverse public health consequences and/or cause nuisance including time, date, duration and nature of the incident.</li> </ol>                                                                                                   |
| P5-G13 | <p>The <b>activity</b> must be undertaken in accordance with written procedures that:</p> <ol style="list-style-type: none"> <li>1. identify potential risks to the <b>environment</b> from the <b>activity</b> during routine <b>operations</b>, closure and an emergency; and</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for <b>environmental harm</b>; and</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition; and</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner; and</li> <li>5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and</li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |
| P5-G14 | Following cessation of deposition of waste in the <b>landfill facility</b> , post-closure care of the <b>landfill facility</b> must be conducted for a period of 30 years or until the operator demonstrates that the <b>landfill facility</b> and surrounding <b>site</b> are stable and that no <b>release</b> of waste materials, <b>leachate</b> , landfill gas or other contaminants that may cause <b>environmental harm</b> is likely.                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Agency interest: Air   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P5-A1                  | Other than as permitted within this environmental authority, odours or airborne <b>contaminants</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Agency interest: Water |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P5-WT1                 | <b>Contaminants</b> must not be <b>released</b> to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| P5-WT2                 | A liner system must be installed and maintained to: <ol style="list-style-type: none"> <li>1. prevent <b>release</b> of contaminants, including <b>leachate</b>, to <b>land</b> and <b>waters</b>; and</li> <li>2. prevent subsurface migration of landfill gas from the <b>landfill unit</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| P5-WT3                 | A <b>leachate</b> collection system must be installed and maintained, to effectively and efficiently: <ol style="list-style-type: none"> <li>1. collect <b>leachate</b> generated in the <b>landfill unit(s)</b>; and</li> <li>2. convey the collected <b>leachate</b> out of the <b>landfill unit(s)</b> to an appropriate <b>leachate</b> storage facility; and</li> <li>3. minimise the height of the <b>leachate</b> above the floor of any <b>landfill unit</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| P5-WT4                 | The holder of this environmental authority must monitor and record quality of surface water at upstream and downstream monitoring positions of the <b>landfill facility</b> to detect any possible <b>release(s)</b> of contaminants in accordance with the Detection Surface Water Monitoring Program. The Detection Surface Water Monitoring Program must be undertaken for, at least, the following water quality characteristics: <ol style="list-style-type: none"> <li>1) pH (in-situ field measurement);</li> <li>2) dissolved oxygen (in-situ field measurement);</li> <li>3) specific conductance and salinity (in-situ field measurement);</li> <li>4) suspended solids (in-situ field measurement);</li> <li>5) temperature (in-situ field measurement);</li> <li>6) general physical observations of receiving <b>waters</b> upstream and downstream;</li> <li>7) monthly rainfall;</li> <li>8) Ammonia (as N);</li> <li>9) Bicarbonate (HCO<sub>3</sub>);</li> <li>10) Calcium;</li> <li>11) Chloride;</li> <li>12) Iron (total);</li> <li>13) Manganese (dissolved);</li> <li>14) Nitrate (as N);</li> <li>15) Phosphorus (total);</li> <li>16) Potassium;</li> <li>17) Sodium;</li> <li>18) Sulfate;</li> </ol> |

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|                        | 19) Total Organic Carbon (TOC);<br>20) Zinc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| P5-WT5                 | The registered operator of the <b>activity</b> must produce suitable spreadsheets and charts to display and facilitate interpretation of the monitoring results to enable comparisons against the <b>groundwater</b> quality limits and trigger levels prescribed in P4-WT19 and P4-WT21.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P5-WT6                 | The holder of this environmental authority must monitor and record the receiving surface water quality, as often as is necessary, but not less frequently than monthly for at least the characteristics required in items (1 to 7) and every three (3) months for at least the characteristics required in items (8 to 20) as required in condition P5-WT4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P5-WT7                 | All determinations of the quality of the receiving surface <b>waters</b> must be performed by a person or body possessing appropriate experience and qualifications to perform the required determinations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| P5-WT8                 | All determinations of the quality of contaminants <b>released</b> to <b>waters</b> shall be made in accordance with methods prescribed in the latest version of the <i>Department of Environment, Science and Innovation Water Quality Sampling Manual</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Agency interest: Land  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| P5-L1                  | <p><b>Land</b> that has been <b>disturbed</b> for <b>activities</b> conducted under this environmental authority must be rehabilitated in a manner such that:</p> <ol style="list-style-type: none"> <li>1. suitable species of vegetation for the location are established and sustained for earthen surfaces; and</li> <li>2. potential for erosion is minimised; and</li> <li>3. the quality of water, including seepage, <b>released</b> from the <b>site</b> does not cause <b>environmental harm</b>; and</li> <li>4. potential for <b>environmental nuisance</b> caused by dust is minimised; and</li> <li>5. the water quality of any residual water body does not have potential to cause <b>environmental harm</b>; and the final landform is stable and protects public safety; and</li> <li>6. the contaminant concentrations within the final capping layer are appropriate for the final land use and in accordance with the latest edition of the '<i>National Environmental Protection (Assessment of Soil Contamination) Measure</i>'.</li> </ol> |
| P5-L2                  | <p>The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include <b>measures</b> to:</p> <ol style="list-style-type: none"> <li>1. maintain the structural integrity and effectiveness of the final capping system; and</li> <li>2. maintain and operate the <b>leachate</b> collection system; and</li> <li>3. maintain the <b>groundwater monitoring system</b> and monitor quality of <b>groundwater</b> at a frequency sufficient to detect any <b>release</b> of contaminants to <b>groundwater</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Agency interest: Noise |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| <b>P5-N1</b>                  | Noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P5-W1</b>                  | <p>The program of post closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused allowed. The program must include <b>measures</b> to:</p> <ol style="list-style-type: none"> <li>1. maintain the structural integrity and effectiveness of the final cover system; and</li> <li>2. maintain and operate the <b>leachate</b> collection system; and</li> <li>3. maintain the <b>groundwater monitoring system</b> and monitor quality of <b>groundwater</b> at a frequency sufficient to detect any <b>release</b> of contaminants to <b>groundwater</b>; and;</li> <li>4. where required – <ol style="list-style-type: none"> <li>a) Maintain and operate the landfill gas monitoring system; and</li> <li>b) Maintain and operate the landfill gas collection system.</li> </ol> </li> </ol> |

## Part 6 – Site Specific Conditions Buderim Waste Transfer Station

| Environmentally relevant activities                                                                                                                                                                                                                                                                                                                                                    | Locations                                                            |
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| <p>ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only</p> <p>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste</p> | <p>Syd Lingard Drive, BUDERIM QLD 4556<br/>Lot 665 Plan CP901247</p> |

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: Activity |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number          | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P6-G1</b>              | <p>In carrying out the environmentally relevant activities, <b>you</b> must take all reasonable and practicable <b>measures</b> to prevent and/ or to minimise the likelihood of environmental harm being caused. Any environmentally relevant <b>activity</b>, that, if carried out incompetently, or negligence, may cause environmental harm, in a manner that could have been prevented, shall be carried out in a proper manner in accordance with the conditions of this approval.</p> <p><i>Note: This approval authorises the environmentally relevant <b>activity</b>. It does not authorise environmental harm unless a condition contained within this approval explicitly authorises that harm. Where there is no condition or the approval is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.</i></p>                                                                                                                                                                                                                                        |
| <b>P6-G2</b>              | <p><b>Maintenance of measures, plant and equipment</b></p> <p>The holder must:</p> <ol style="list-style-type: none"> <li>1. install all <b>measures</b>, plant and equipment necessary to ensure compliance with the condition of this environmental authority; and</li> <li>2. maintain such <b>measures</b>, plant and equipment in a proper and efficient condition; and</li> <li>3. operate such <b>measures</b>, plant and equipment in a proper and efficient manner.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P6-G3</b>              | <p>From commencement of the <b>activity</b>, a <b>Site Based Management Plan (SBMP)</b> must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential <b>release</b> of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all Environmentally Relevant Activities that are carried out.</p> <p>The <b>site</b> based management plan must address all the following matters:</p> <ol style="list-style-type: none"> <li>1. environmental commitments – a commitment by senior management to achieve environmental goals;</li> <li>2. identification of environmental issues and potential impacts;</li> <li>3. control <b>measures</b> for routine <b>operations</b> to minimise likelihood of environmental harm;</li> <li>4. contingency plans and emergency procedures for non-routine situations;</li> </ol> |

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|                             | <ol style="list-style-type: none"> <li>5. organisational structure and responsibility;</li> <li>6. effective communication;</li> <li>7. method for monitoring of the contaminant <b>releases</b>;</li> <li>8. conducting environmental impact assessments;</li> <li>9. staff training;</li> <li>10. record keeping; and</li> <li>11. review of environmental performance and continual improvement at least annually and after incidents.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P6-G4</b>                | Record, compile and keep all monitoring results required by this document and present this information to the <b>administering authority</b> when requested, in a specified format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P6-G5</b>                | <p><b>Records</b> must be kept for five years, and must include the following information:</p> <ol style="list-style-type: none"> <li>1. description of waste; and</li> <li>2. quantity of waste; and</li> <li>3. intended fate of the waste, for example, type of waste treatment, reprocessing or disposal.</li> </ol> <p><i>Note: <b>Records</b> of documents maintained in compliance with waste tracking system established under the Environmental Protection Act 1994 or any other law for <b>regulated waste</b> will be deemed satisfy this condition.</i></p>                                                                                                                                                                                                                                                                                                                         |
| <b>P6-G6</b>                | <p>An annual monitoring report must be prepared and provided to the <b>administering authority</b> upon request. This report shall include but not be limited to:</p> <ol style="list-style-type: none"> <li>1. a summary of the previous twelve (12) months' monitoring results obtained under any limits, a comparison of the previous twelve (12) months monitoring results to both this authority limits and to relevant prior results;</li> <li>2. an evaluation/explanation of the data from any monitoring programs; and</li> <li>3. a summary record of incidents on <b>site</b> that may have impacted, or had the potential to impact, water quality recorded for any <b>site</b> under this authority; and</li> <li>4. an outline of actions taken or proposed to minimise the environmental risk from any deficiency identified by the monitoring or recording programs.</li> </ol> |
| <b>Agency interest: Air</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Condition number</b>     | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P6-A1</b>                | The <b>release</b> of <b>noxious</b> or <b>offensive</b> odours or any other <b>noxious</b> or <b>offensive</b> airborne contaminants resulting from the <b>activity</b> must not cause an <b>environmental nuisance</b> beyond the boundaries of the premises to which this environmental authority relates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P6-A2</b>                | The <b>release</b> of dust and/or particulate matter resulting from the <b>activity</b> must not cause an <b>environmental nuisance</b> at any <b>dust sensitive place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P6-A3</b>                | <p>Exceedance of any of the following levels when measured at any <b>dust sensitive place</b> is an <b>environmental nuisance</b> for the purposes of condition P6-A2.</p> <ol style="list-style-type: none"> <li>1. dust deposition of 120 milligrams per square metre per <b>day</b>, when monitored in accordance with Australian Standard AS 3580.10 of 1991; OR</li> <li>2. a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM<sub>10</sub>) suspended in the atmosphere of 150 micrograms per cubic metre</li> </ol>                                                                                                                                                                                                                                                                                                                  |

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|              | <p>over a 24 hour averaging time, at a <b>dust sensitive place</b> downwind of the <b>site</b>, when monitored in accordance with:</p> <ol style="list-style-type: none"> <li>Australian Standard AS 3580.9.6 '<i>Ambient air – Particulate matter – Determination of suspended particulate PM<sub>10</sub> high-volume sampler with size selective inlet – Gravimetric method</i>'; or</li> <li>any alternative method of monitoring PM<sub>10</sub> which may be permitted by the '<i>Air Quality Sampling Manual</i>' as published from time to time by the <b>administering authority</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>P6-A4</b> | <p>When requested by the <b>Administering Authority</b>, dust and particulate monitoring must be undertaken to investigate any complaint of <b>environmental nuisance</b> caused by dust and/or particulate matter, and the results notified within <b>14 days</b> to <b>administering authority</b> following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potential affected dust <b>sensitive place</b> and at upwind control sites and must include:</p> <ol style="list-style-type: none"> <li>for a complaint alleging dust nuisance, dust deposition; and</li> <li>for a complaint alleging adverse health effects caused by dust, the concentration particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM<sub>10</sub>) suspended in the atmosphere of 150 micrograms per cubic metre over an averaging time; and</li> <li>must be carried out a place(s) relevant to the potentially affected dust <b>sensitive places</b> and upwind control sites.</li> </ol> |
| <b>P6-A5</b> | <p>The following material must not be used for dust suppression purposes or be <b>released</b> on rehabilitation areas or areas being rehabilitated:</p> <ol style="list-style-type: none"> <li>any <b>leachate</b><sup>1</sup> or stormwater contaminated by contact with waste materials other than inert parts of construction and demolition waste which have been sorted in the course of the waste transfer station <b>operation</b>; and</li> <li>waste oil.</li> </ol> <p><b>Notes</b></p> <p><sup>1</sup>Other than <b>leachate</b> originating from greenwaste stockpiles that has collected in the sediment basin from stormwater runoff.</p>                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P6-A6</b> | <p>The activities must be carried out using all reasonable and practicable <b>measures</b> to minimise the <b>release</b> of windblown dust to the atmosphere. Reasonable and practicable <b>measures</b> may include but are not limited to use of water sprays, use of dust suppressants and wind breaks.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P6-A7</b> | <p>Raw material preparation plants and external transfer conveyors must be operated and maintained using all reasonable and practicable <b>measures</b> to minimise the <b>release</b> of windblown dust or particulate matter to the atmosphere. Reasonable and practicable means may include but are not limited to transfer of materials in a moist state, enclosure or shielding of conveyors, shielding and wind breaks.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P6-A8</b> | <p>Stockpiles must be maintained using all reasonable and practicable <b>measures</b> necessary to minimise the <b>release</b> of blown dust and particulate matter to the atmosphere. Reasonable and practicable <b>measures</b> may include but are not limited to:</p> <ol style="list-style-type: none"> <li>use of water spray as required during winds likely to generate such <b>releases</b>;</li> <li>use of dust-suppressant shielding; and</li> <li>storage in bunkers.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P6-A9</b> | <p>Trafficable areas must be maintained using all reasonable and practicable <b>measures</b> necessary to minimise the <b>release</b> of windblown dust and traffic generated dust to the atmosphere. Reasonable and practicable <b>measures</b> may include but are not limited to:</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|--|----|----|---------------------------------|-----------|-----------------------------|------------------------------------------|
|  | W4 | W4 | Total Suspended Solids (mg/L)   | 50        | Maximum                     | See associated monitoring requirement 5. |
|  |    |    | Electrical Conductivity (µS/cm) | 1500      | Maximum                     |                                          |
|  | W1 | W1 | BOD5 (mg/L)                     | 3.0 mg/L  | 90 <sup>th</sup> Percentile |                                          |
|  |    |    |                                 | 10 mg/L   | 99 <sup>th</sup> Percentile |                                          |
|  |    |    | Total Phosphorus (mg/L)         | 0.05 mg/L | 90 <sup>th</sup> Percentile |                                          |
|  |    |    |                                 | 1.0 mg/L  | 99 <sup>th</sup> Percentile |                                          |
|  |    |    | Total Nitrogen (mg/L)           | 2.0 mg/L  | 90 <sup>th</sup> Percentile |                                          |
|  |    |    |                                 | 10 mg/L   | 99 <sup>th</sup> Percentile |                                          |
|  |    |    | Total Suspended Solids (mg/L)   | 10 mg/L   | 90 <sup>th</sup> Percentile |                                          |
|  |    |    |                                 | 50 mg/L   | 99 <sup>th</sup> Percentile |                                          |

**Associated Discharge Requirements:**

1. **leachate** and contaminated stormwater runoff from the green waste stockpiling area must only be discharged from location W1 via the sedimentation basin and bioretention system; and
2. stormwater runoff from the concrete and other inert materials stockpile areas must only be discharged from the rock filter dams C2 and C3; and
3. stormwater runoff from the steel and other inert materials stockpile areas must only be discharged from the rock filter dam C1; and
4. stormwater runoff from the Resource Recovery Centre may be discharged from location W4 via the dedicated bioretention basin.

**Associated Monitoring Requirements:**

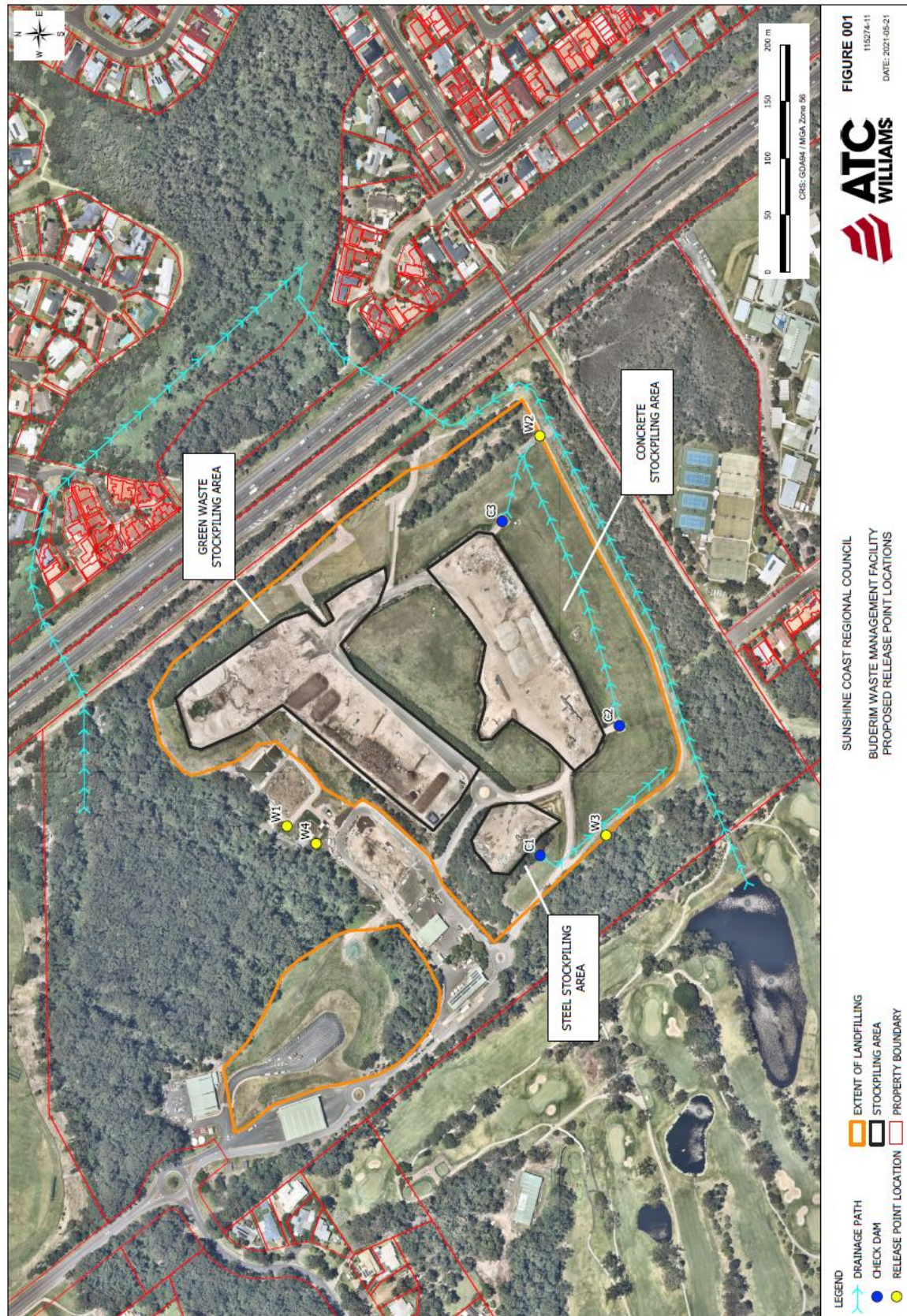
1. monitoring must be in accordance with the methods prescribed in the current edition of the **administering authority's Water Quality Sampling Manual**; and
2. samples must be taken using representative samples; and
3. all monitoring devices must be correctly calibrated and maintained; and
4. monitoring must be undertaken during a release as per the frequency stated; and
5. for monitoring locations W1, W2, W3 and W4, six monitoring events must be undertaken each year, preferably across the wet season (November to April). Samples are to be taken from W1, W2, W3 and W4 during or immediately after a rain event where more than 10mm of rain has fallen in the preceding 24 hours and where there is discharge at the monitoring location.

|                                         | Notes <sup>1</sup> See <i>Part 6 Attachments – 1. Buderim Transfer Station – Discharge and Monitoring Locations</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--|--------|-------------------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|----------------------------------|----------------------------------------|----------------------------------|---------------------------------------------|-------------------------------------|-------------------------------|------------------------------------|--|--------|--------------------------------------------------------------------------------------------------------------------------|
| <b>P6-WT4</b>                           | Discharges from the green waste sediment basin at the downstream end that bypass the bio-retention basin and discharge direct to Tuckers Creek are permitted for a <b>24 hour storm event with an average recurrence interval of 1 in 20 years</b> or greater.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-WT5</b>                           | A system of diversion drains and/or embankments must be constructed and maintained to divert surface <b>waters</b> away from any area of the <b>authorised place</b> where contact with waste or contaminants may occur.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-WT6</b>                           | Drainage through and from all trafficable areas must be designed to minimise surface flow velocities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-WT7</b>                           | Erosion control and sediment control structures must be maintained at all times during the periods of <b>operation</b> or rehabilitation and checked, repaired or replaced as required after each rain event.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-WT8</b>                           | All vegetated swales, sediment basins and bioretention systems used for the storage or treatment of contaminants in the <b>authorised place</b> must be constructed, installed and maintained: <ol style="list-style-type: none"> <li>so as to minimise the likelihood of any <b>release</b> of effluent through the bed or banks of the structure to any <b>waters</b> (including ground water);</li> <li>so that a freeboard of not less than 0.3 meters is maintained for the banks of sediment basins and bioretention systems at all times, except in emergencies; and</li> <li>so as to ensure the stability of the structure's construction.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>Agency interest: Noise</b>           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>Condition number</b>                 | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-N1</b>                            | Noise from activities must not cause an <b>environmental nuisance</b> at any noise <b>sensitive place</b> or any <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| <b>P6-N2</b>                            | <p>All noise from activities must not exceed the levels specified in <i>Table P6-N2 – Noise limits</i>.</p> <p style="text-align: center;"><b>Table P6-N2 - Noise limits</b></p> <table border="1"> <thead> <tr> <th colspan="2">NOISE LIMITS AT A NOISE SENSITIVE PLACE</th></tr> </thead> <tbody> <tr> <td>Period</td><td>Noise Level at a Noise <b>Sensitive Place</b> Measured as the Adjusted <b>Maximum</b> Sound Pressure Level <math>LA_{max\ adj, T}</math></td></tr> <tr> <td>Monday to Saturday<br/>7am - 6pm</td><td><b>Background noise level 5 dB (A)</b></td></tr> <tr> <td>Monday to Saturday<br/>6pm - 10pm</td><td><b>Background noise level 5 dB (A)</b></td></tr> <tr> <td>Monday to Saturday<br/>10pm – 7am</td><td><b>Background noise level plus 3 dB (A)</b></td></tr> <tr> <td>All other times and public holidays</td><td><b>Background noise level</b></td></tr> <tr> <th colspan="2">NOISE LIMITS AT A COMMERCIAL PLACE</th></tr> <tr> <td>Period</td><td>Noise Level at a <b>Commercial Place</b> measured as the Adjusted <b>Maximum</b> Sound Pressure Level <math>LA_{max\ adj, T}</math></td></tr> </tbody> </table> | NOISE LIMITS AT A NOISE SENSITIVE PLACE |  | Period | Noise Level at a Noise <b>Sensitive Place</b> Measured as the Adjusted <b>Maximum</b> Sound Pressure Level $LA_{max\ adj, T}$ | Monday to Saturday<br>7am - 6pm | <b>Background noise level 5 dB (A)</b> | Monday to Saturday<br>6pm - 10pm | <b>Background noise level 5 dB (A)</b> | Monday to Saturday<br>10pm – 7am | <b>Background noise level plus 3 dB (A)</b> | All other times and public holidays | <b>Background noise level</b> | NOISE LIMITS AT A COMMERCIAL PLACE |  | Period | Noise Level at a <b>Commercial Place</b> measured as the Adjusted <b>Maximum</b> Sound Pressure Level $LA_{max\ adj, T}$ |
| NOISE LIMITS AT A NOISE SENSITIVE PLACE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| Period                                  | Noise Level at a Noise <b>Sensitive Place</b> Measured as the Adjusted <b>Maximum</b> Sound Pressure Level $LA_{max\ adj, T}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| Monday to Saturday<br>7am - 6pm         | <b>Background noise level 5 dB (A)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| Monday to Saturday<br>6pm - 10pm        | <b>Background noise level 5 dB (A)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| Monday to Saturday<br>10pm – 7am        | <b>Background noise level plus 3 dB (A)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| All other times and public holidays     | <b>Background noise level</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| NOISE LIMITS AT A COMMERCIAL PLACE      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |
| Period                                  | Noise Level at a <b>Commercial Place</b> measured as the Adjusted <b>Maximum</b> Sound Pressure Level $LA_{max\ adj, T}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                         |  |        |                                                                                                                               |                                 |                                        |                                  |                                        |                                  |                                             |                                     |                               |                                    |  |        |                                                                                                                          |

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|                        | Monday to Saturday<br>7am – 6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Background noise level plus 10 dB (A) |
|                        | Monday to Saturday<br>6pm – 10pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Background noise level plus 10 dB (A) |
|                        | Monday to Saturday<br>10pm – 7am                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Background noise level plus 8 dB (A)  |
|                        | All other times and public<br>holidays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Background noise level plus 5 dB(A)   |
| P6-N3                  | Condition P6-N2 applies if:<br><div><div>1.</div><div>there are complaints to the <b>administering authority</b> about the level of noise from any source in carrying out the environmentally relevant activities at <b>authorised place</b>; and</div><div>2.</div><div>the complaints are not frivolous or vexatious or based on mistaken belief.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| P6-N4                  | When requested by the <b>administering authority</b> , noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 <b>days</b> to the <b>administering authority</b> . Monitoring must include:<br><div><div>1.</div><div>LA<sub>10</sub>, adj, 10 mins</div><div>2.</div><div>LA<sub>1</sub>, adj, 10 mins</div><div>3.</div><div>the level and frequency of occurrence of impulsive or tonal noise;</div><div>4.</div><div>atmospheric conditions including wind speed and direction;</div><div>5.</div><div>effects due to extraneous factors such as traffic noise; and</div><div>6.</div><div>location, date and time of recording.</div></div>                                                                 |                                       |
| P6-N5                  | The method of measurement and reporting of noise levels must comply with the latest edition of the <b>administering authority's</b> <i>Noise Measurement Manual</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                       |
| Agency interest: Waste |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                       |
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| P6-W1                  | The only waste materials which are permitted to be accepted at the waste transfer station facility, are domestic (or municipal) waste, including self-haul i.e. waste delivered by the general public; commercial and industrial wastes; and construction and demolition wastes, including green waste and concrete for recycling, with the exception of the following:<br><div><div>1.</div><div>any liquescent waste; and</div><div>2.</div><div>and <b>regulated waste</b>.</div></div><br><i>Note: The above condition does not apply to liquescent, regulated or <b>putrescible wastes</b> that are incidental to construction and demolition wastes and commercial and industrial wastes and can be effectively removed during sorting at the waste transfer station.</i> |                                       |
| P6-W2                  | All <b>general waste</b> resulting from sorting construction and demolition waste and commercial and industrial wastes that requires off- <b>site</b> disposal must only be stored in waste containers or equivalent containment area(s).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                       |
| P6-W3                  | The waste containers used for temporarily storage of the <b>general waste</b> for off- <b>site</b> disposal must be:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                       |

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|               | <ol style="list-style-type: none"> <li>1. maintained in a proper and efficient state of repair to effectively contain the deposited wastes; and</li> <li>2. cleaned regularly.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P6-W4</b>  | All <b>regulated waste</b> resulting from sorting construction and demolition waste must be contained within on-site containment system(s) and controlled in a manner that prevents environmental harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>P6-W5</b>  | All <b>regulated waste</b> removed from the premises to which this environmental authority relates must be removed by a person who holds a current approval such waste under the provisions of the <b>administering authority</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P6-W6</b>  | Keep and maintain <b>records</b> of source, volumes and composition of all waste types accepted at the premises and report these values to the <b>administering authority</b> by 31 August each year.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P6-W7</b>  | <p>The only materials permitted to be processed by crushing, grinding or milling under this environmental authority are:</p> <ol style="list-style-type: none"> <li>1. timber;</li> <li>2. garden and/or green waste; and</li> <li>3. concrete, bricks and like material.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>P6-W8</b>  | <p>The holder of this development approval must ensure that, at all times while the environmentally relevant <b>activity/ies</b> are operating, at least one person is present who is responsible for the control and <b>operation</b> of the facility and whose duties must include but are not limited to:</p> <ol style="list-style-type: none"> <li>1. controlling the reception, storage and removal of waste;</li> <li>2. maintaining the facility to an appropriate environmental standard;</li> <li>3. controlling all employees working in the facility;</li> <li>4. supervising all persons entering the facility; and</li> <li>5. supervising that waste acceptance criteria are being complied with.</li> </ol> |
| <b>P6-W9</b>  | The holder of this environmental authority must provide and maintain a security fence with lockable gate(s) (or equivalent <b>measures</b> ) which prevents unauthorised vehicular access to the facility.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P6-W10</b> | The holder of this environmental authority must ensure that all access gates are locked when the environmentally relevant <b>activity(ies)</b> are unattended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>P6-W11</b> | The holder of this environmental authority must take all reasonable and practicable <b>measures</b> necessary to ensure that the carrying out of the environmentally relevant <b>activity/ies</b> do not cause any adverse effect on public health or any nuisance, particularly in relation to propagation of diseases, fly breeding, mosquito breeding, and harbourage and/or breeding of rats and other pest organisms and/or vectors.                                                                                                                                                                                                                                                                                   |
| <b>P6-W12</b> | <p>In the event of any adverse effect upon public health and/or any nuisance arising from the conduct of the environmentally relevant <b>activity/ies</b>, the holder of the environmental authority must take all reasonable and practicable necessary to:</p> <ol style="list-style-type: none"> <li>1. abate such adverse effects and such nuisance; and</li> <li>2. prevent the likelihood of any recurrence of the circumstances that gave rise to such adverse effects and/or such nuisance.</li> </ol>                                                                                                                                                                                                               |
| <b>P6-W13</b> | Where litter is blown or washed from the <b>authorised place</b> in amounts that are not insignificant in scale or extent, the holder of this environmental authority must take all reasonable and practicable actions to retrieve the litter and ensure that it is disposed of in an appropriate manner.                                                                                                                                                                                                                                                                                                                                                                                                                   |

Part 6 Attachments – 1. Buderim Waste Transfer Station – Discharge and Monitoring Locations



**Part 7 – Site Specific Conditions - Caloundra Landfill, Resource Recovery and Waste Transfer Facility**

| Environmentally relevant activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Locations                                                                                                                   |
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| <p>ERA 54 - Mechanical waste reprocessing 1: Operating a facility for receiving and mechanically reprocessing, in a year, more than 5,000t of inert, non-putrescible waste or green waste only</p> <p>ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) - (c) more than 100,000t but not more than 200,000t</p> <p>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste</p> | <p>171 Pierce Avenue, BELLS CREEK QLD 4551<br/>Lot 101 Plan SP232333, Lot 102 Plan SP272967 &amp; Lot 104 Plan SP272967</p> |

The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-G1</b>             | In carrying out an ERA to which this approval relates, all reasonable and practicable <b>measures</b> must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P7-G2</b>             | <p>The operator of an ERA to which this approval relates must:</p> <ol style="list-style-type: none"> <li>1. install all <b>measures</b>, plant and equipment necessary to ensure compliance with the conditions of this approval; and</li> <li>2. maintain such <b>measures</b>, plant and equipment in a proper and efficient condition; and</li> <li>3. operate such <b>measures</b>, plant and equipment in a proper and efficient manner.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-G3</b>             | <p>An <b>activity</b> based management plan (ABMP) must be developed for implementing by the person carrying out the <b>activity</b>. The ABMP must be implemented on commencement of the <b>activity</b> and include:</p> <ol style="list-style-type: none"> <li>1. environmental commitments – a commitment by senior management to achieve specific and relevant environmental goals; and</li> <li>2. a description of the <b>activity</b> including type of machinery, and purpose of <b>operation</b>; and</li> <li>3. a description of the <b>site</b> and surrounding <b>environment</b> including <b>site</b> dimensions, land tenure and existing use of the land, designated areas such as stockpiles and loading areas, location of any sensitive areas; and</li> <li>4. identification of environmental issues and potential environmental impacts from the <b>activity</b>; and</li> <li>5. control <b>measures</b> for routine <b>operations</b> to minimise the likelihood of causing environmental harm; and</li> <li>6. contingency plans and emergency procedures for non-routine situations; and</li> <li>7. organisational structure and responsibility; and</li> <li>8. details of staff training; and</li> <li>9. record keeping methods; and</li> </ol> |

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|               | <p>10. provisions for continuous improvement and periodic review of environmental performance; and</p> <p>11. details of progressive and post-works rehabilitation of <b>disturbed areas</b>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-G4</b>  | The <b>activity</b> based management plan must not be implemented or amended in a way that contravenes any condition of this approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-G5</b>  | Record, compile and keep all monitoring results required by this approval and present this information to the <b>administering authority</b> when requested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P7-G6</b>  | A copy of this development approval must be kept in a location readily accessible to personnel carrying out the <b>activity</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-G7</b>  | All <b>records</b> required by this approval must be kept for 5 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-G8</b>  | <p>A record of all <b>regulated waste</b> must be kept detailing the following information:</p> <ol style="list-style-type: none"> <li>1. date of pickup of waste;</li> <li>2. description of waste;</li> <li>3. quantity of waste;</li> <li>4. origin of the waste; and</li> <li>5. destination of the waste.</li> </ol> <p><i>Note: Trackable wastes as listed in Schedule 1 of the Environmental Protection (Waste Management) Regulation 2000 are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.</i></p> |
| <b>P7-G9</b>  | <p>No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm.</p> <p>An example of a substantial increase in the risk of environmental harm is an increase of 10% or more in the quantity of the contaminant to be <b>released</b> to the environment</p>                                                                                                                                                                                                                         |
| <b>P7-G10</b> | A suitably qualified and competent person/s with appropriate training must conduct and report on any monitoring required by this approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P7-G11</b> | All instruments, equipment and measuring devices used for measuring or monitoring any parameter in accordance with any condition of this approval must be calibrated, and appropriately operated and maintained according to the manufacturer's instructions.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P7-G12</b> | An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the <b>site</b> .                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P7-G13</b> | Anyone operating under this approval must be trained in the use of the spill kit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-G14</b> | Deposited waste must be covered as soon as practicable to limit stormwater infiltration, prevent exposure of waste and prevent issues arising from vectors and pest species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P7-G15</b> | <p>The operator of the ERA must record the following details for all complaints received and provide this information to the <b>administering authority</b> on request:</p> <ol style="list-style-type: none"> <li>1. time, date, name and contact details of the complainant; and</li> </ol>                                                                                                                                                                                                                                                                                                                                                          |

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|                             | <ol style="list-style-type: none"> <li>2. reasons for the complaint; and</li> <li>3. any investigations undertaken; and</li> <li>4. conclusions formed; and</li> <li>5. any actions taken.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P7-G16</b>               | In accordance with the <i>Environmental Protection Act 1994</i> (duty to notify of environmental harm) the operator of the ERA must notify the <b>administering authority</b> of any incident that threatens or has caused series or material environmental harm not in accordance with the conditions of this approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Agency interest: Air</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Condition number</b>     | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P7-A1</b>                | Notwithstanding any other condition of this approval, the <b>release</b> of <b>noxious</b> or <b>offensive</b> odour(s) or any other <b>noxious</b> or <b>offensive</b> airborne contaminant(s) resulting from the <b>activity</b> must not cause any <b>environmental nuisance</b> at any nuisance sensitive or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P7-A2</b>                | <p>The holder of the environmental authority must design, construct, commission, operate and maintain the <b>site</b> in a manner that minimises or prevents the emission of odour from the <b>site</b>. For the purpose of avoiding any release of odour from the approved place which could cause an <b>environmental nuisance</b>, the following <b>measures</b> must be taken:</p> <ol style="list-style-type: none"> <li>1. the area of tipping face must be minimised as far as possible; and</li> <li>2. odorous waste must be covered as soon as possible after delivery; and</li> <li>3. landfill gas collection system must be progressively installed in conjunction with the landfill development; and</li> <li>4. landfill gas will be flared or used in electricity generation; and</li> <li>5. leachate storage tank must be maintained in a condition that minimises the emissions of odours, through regular monitoring. If issues are identified, odour management techniques must be applied.</li> </ol> |
| <b>P7-A3</b>                | <p>The holder must maintain effective odour management response and response procedures that include as a <b>minimum</b> provision for:</p> <ol style="list-style-type: none"> <li>1. field assessment of odour in a proper and competent manner in response to complaints; and</li> <li>2. reporting of results to the plant manager or other person responsible for plant operations; and</li> <li>3. recording of assessment results and responses; and</li> <li>4. initiation of modification of plant equipment and/or operation upon becoming aware of any operation or event causing a nuisance; and</li> <li>5. continual improvement in odour management.</li> </ol>                                                                                                                                                                                                                                                                                                                                               |
| <b>P7-A4</b>                | As part of the Activity Based Management Plan required for the approval, the holder must develop and implement an odour management plan. This plan must be prepared to ensure that odour does not adversely affect the welfare and amenity of nearby land uses.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>P7-A5</b>                | In the event of a complaint about <b>noxious</b> or <b>offensive</b> odour from an odour <b>sensitive place</b> , to the <b>administering authority</b> that the administering (considered neither frivolous or vexatious or based on mistaken belief in the opinion of the authorized officer) the holder of this authority must investigate any complaint of odour nuisance upon receipt of a written request from the <b>administering authority</b> . If it is determined that the <b>activity</b> is causing the complaint, steps to be taken to manage the odour are to be identified and implemented.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P7-A6</b>                | The development approval holder must install a weather station at the premises and monitor at least wind speed and direction at the <b>site</b> . This information can help the investigation of odour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|               | and dust complaints and assist in the implementation of effective odour and dust management systems under worst meteorological conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-A7</b>  | The <b>release</b> of dust and/or particulate matter resulting from the landfill <b>activity</b> must not cause an <b>environmental nuisance</b> at any nuisance sensitive or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P7-A8</b>  | The holder must design, construct, commission, operate and maintain the <b>site</b> in a manner that minimises or prevents the emission of dust from the <b>site</b> including windblown and traffic generated dust.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P7-A9</b>  | <p>The holder must design, construct, operate and maintain the <b>site</b> in a manner that minimises the potential generation of fugitive dust emission from plant and equipment, including where relevant and practicable, design the project using the following management techniques:</p> <ol style="list-style-type: none"> <li>1. watering of internal haul roads both paved and unpaved; and</li> <li>2. watering of exposed areas, excluding working cells (putrescibles landfill and dry disposal facility); and</li> <li>3. seeding of soil stockpiles; and</li> <li>4. earth moving management; and</li> <li>5. limiting the amount of cleared areas; and</li> <li>6. truck wheel wash areas.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P7-A10</b> | As part of the Activity Based Management Plan required for the approval, the holder must prepare and implement a Dust Management Plan to outline <b>measures</b> to minimise and manage any impacts from the <b>operation</b> on local air quality.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>P7-A11</b> | <p>When requested by the <b>administering authority</b> or as a result of a complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer), a dust and particulate monitoring must be undertaken (including dust deposition, total suspended particles (TSP), PM<sub>10</sub> and PM<sub>2.5</sub>), and the results thereof notified to the <b>administering authority</b> within fourteen (14) <b>days</b> following completion of monitoring. This includes providing interim reports if the monitoring lasts for more than one month.</p> <p><i>Monitoring must be carried out at a place(s) relevant to the potentially affected <b>dust sensitive place</b>, and must be conducted in accordance with the appropriate standards.</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-A12</b> | <p>Dust and particulate matter from the <b>activity</b> must not exceed any of the following levels when measured at any nuisance sensitive or <b>commercial place</b>:</p> <ol style="list-style-type: none"> <li>1. a level of deposited dust of 120 milligrams per square metre per <b>day</b> based on a monthly average;</li> <li>2. a concentration of total particulate matter suspended in the atmosphere of 90 micrograms per cubic metre over a 1 year averaging time;</li> <li>3. a concentration of particulate matter with aerodynamic diameter of less than 10 micrometres (PM<sub>10</sub>) of 50 micrograms per cubic metres over a 24-hour averaging time with not more than 5 exceedances recorded over 12 months at any <b>sensitive place</b> (5 <b>days</b> exceedances per year are for the natural events such as bushfires and dust storm);</li> <li>4. a concentration of particulate matter with aerodynamic diameter of less than 2.5 micrometres (PM<sub>2.5</sub>) of 25 micrograms per cubic metres over a 24-hour averaging time; and</li> <li>5. a concentration of particulate matter with aerodynamic diameter of less than 2.5 micrometres (PM<sub>2.5</sub>) of 8 micrograms per cubic metres over a 1 year averaging time.</li> </ol> |

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| <b>P7-A13</b> | <p>If monitoring conducted as a result of a complaint indicates an exceedance of the guidelines detailed in condition P7-A8, the holder must:</p> <ol style="list-style-type: none"> <li>1. address the complaint through the use of appropriate dispute resolution if required; and</li> <li>2. immediately implement dust abatement <b>measures</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P7-A14</b> | <p>The results of PM<sub>10</sub>, dust deposition and meteorological monitoring must be reported to the <b>administering authority</b> on request.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-A15</b> | <p>The <b>release</b> of landfill gas must not cause environmental harm.</p> <p>Landfill gas is not considered to cause environmental harm if:</p> <ol style="list-style-type: none"> <li>1. a landfill gas collection system is installed and maintained when the <b>landfill unit</b> is sufficiently elevated to allow adequate drainage of gas lines; and</li> <li>2. landfill gas monitoring shows that the <b>release</b> of methane does not exceed the following limits: <ol style="list-style-type: none"> <li>a) 500 parts per million at a height of 50 mm above the final and intermediate cover surface including the batter slopes of the <b>landfill unit</b>;</li> <li>b) 25 percent of the <b>lower explosive limit</b> when measured in facility structures (but excluding facility structures used for landfill gas control and landfill gas recovery system components); and</li> <li>c) 25 percent of the <b>lower explosive limit</b> at the <b>landfill facility</b> boundary, measured in subsurface geology.</li> </ol> </li> </ol> |
| <b>P7-A16</b> | <p>The flare must be equipped with a flare tip design to provide good mixing with air, flame stability and achieve a <b>minimum</b> Volatile Organic Compound (VOC) removal efficiency of 98% under varied gas flow rate and meteorological conditions and meet the best practice design standards</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>P7-A17</b> | <p>The flare must be equipped with a continuously burning pilot or other automatic ignition system that assures gas ignition and provides immediate notification of appropriate personnel when the ignition system ceases to function.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P7-A18</b> | <p>The flare must be designed to handle large fluctuations in both the volume and the chemical content of gases.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P7-A19</b> | <p>Visible emissions must not be permitted for more than five minutes in any two hour period.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P7-A20</b> | <p>The flare must be constructed with a release height not less than six (6) metres above ground level and must be operated in such a way that the temperature for the combustion of gas by the flare is at least 980°C.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-A21</b> | <p>The assessment of compliance with the methane limit at a height of 50 mm above the final and intermediate cover surface of the <b>landfill unit</b> prescribed by condition P7-A15 must be undertaken at the following locations:</p> <ol style="list-style-type: none"> <li>1. on a grid pattern where the grid lines are no more than 25 metres apart; and</li> <li>2. at any other locations where visual observations indicate potentially elevated concentrations of landfill gas, for example cracks, seeps in cover and distressed vegetation.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P7-A22</b> | <p>A landfill gas monitoring network must be installed for each <b>landfill unit</b> to assess compliance with methane limits for facility structures and at the boundary prescribed by condition P7-A15. The network must consist of gas monitoring devices, such as monitoring bores and be developed by a person possessing appropriate qualifications and experience in the fields of hydrogeology and landfill gas monitoring program design to be able to competently make recommendations about</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                               | these matters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
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| P7-A23                        | Conduct and keep <b>records</b> of landfill gas monitoring which is performed at the following frequencies:<br><div><div>1.</div><div>at least every 3 months to assess compliance with the methane limit at a height of 50mm above the cover surface of the <b>landfill unit</b> prescribed by condition P7-A15; and</div></div> <div><div>2.</div><div>at least every 3 months to assess compliance with methane limits for facility structures and at the boundary prescribed by condition P7-A15.</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| Agency interest: Water        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| Condition number              | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| P7-WT1                        | Contaminants must not be <b>released</b> from the <b>site</b> to any <b>waters</b> or the bed and banks of any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| P7-WT2                        | Erosion protection <b>measures</b> and sediment control <b>measures</b> must be implemented and maintained to minimise erosion and the <b>release</b> of sediment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| P7-WT3                        | <p>The holder of the approval must design, install and maintain a stormwater treatment system capable of treating the equivalent volume of a <b>24 hour storm event, with the average recurrence interval of 1 in 10</b> years to the water quality levels specified in <i>Table P7-WT3 - Water Quality Release Criteria</i>.</p> <p>The only contaminants permitted to be <b>released</b> from any sedimentation pond to any <b>waters</b> is settled stormwater runoff that has not been in contact with waste or <b>leachate</b> due to rainfall at the approved place.</p> <p><b>Table P7-WT3 – Water Quality Release Criteria</b></p> <table><tr><th>QUALITY CHARACTERISTICS</th><th>RELEASE LIMIT</th><th>Release Point</th><th>LIMIT TYPE</th><th>MONITORING FREQUENCY</th></tr><tr><td>pH. (pH Units)</td><td>6.5 - 9.0</td><td rowspan="4">RMP1<br/>RMP2</td><td><b>Range</b></td><td>Weekly in the event of a release, If no release occurs, no sampling is required.</td></tr><tr><td>Specific Conductance. (µS/cm)</td><td>1500</td><td><b>Maximum</b></td><td>Weekly in the event of a release. If no release occurs, no sampling is required.</td></tr><tr><td>Dissolved Oxygen. (mg/L)</td><td>6</td><td><b>Minimum</b></td><td>Weekly in the event of a release. If no release occurs, no sampling is required.</td></tr><tr><td>Suspended Solids (mg/L)</td><td>50</td><td><b>Maximum</b></td><td>Weekly in the event of a release. If no release occurs, no sampling is required.</td></tr></table> | QUALITY CHARACTERISTICS | RELEASE LIMIT  | Release Point                                                                    | LIMIT TYPE | MONITORING FREQUENCY | pH. (pH Units) | 6.5 - 9.0 | RMP1<br>RMP2 | <b>Range</b> | Weekly in the event of a release, If no release occurs, no sampling is required. | Specific Conductance. (µS/cm) | 1500 | <b>Maximum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. | Dissolved Oxygen. (mg/L) | 6 | <b>Minimum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. | Suspended Solids (mg/L) | 50 | <b>Maximum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. |
| QUALITY CHARACTERISTICS       | RELEASE LIMIT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Release Point           | LIMIT TYPE     | MONITORING FREQUENCY                                                             |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| pH. (pH Units)                | 6.5 - 9.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | RMP1<br>RMP2            | <b>Range</b>   | Weekly in the event of a release, If no release occurs, no sampling is required. |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| Specific Conductance. (µS/cm) | 1500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         | <b>Maximum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| Dissolved Oxygen. (mg/L)      | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         | <b>Minimum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| Suspended Solids (mg/L)       | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         | <b>Maximum</b> | Weekly in the event of a release. If no release occurs, no sampling is required. |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |
| P7-WT4                        | A transitional environmental program must be submitted to the <b>administering authority</b> to transition existing <b>site</b> controls to achieve the performance outcomes described in P7-WT3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                |                                                                                  |            |                      |                |           |              |              |                                                                                  |                               |      |                |                                                                                  |                          |   |                |                                                                                  |                         |    |                |                                                                                  |

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|                | <p>above. The transitional environmental program must:</p> <ol style="list-style-type: none"> <li>1. be for no longer than 3 years; and</li> <li>2. include a monitoring program to demonstrate the achievement of P7-WT3 above; and</li> <li>3. identify action for the promotion of best practice <b>site</b> erosion protection <b>measures</b> and sediment control <b>measures</b> to the broader urban development and infrastructure development community.</li> </ol>                                                        |
| <b>P7-WT5</b>  | There must be no <b>release</b> of stormwater runoff that has been in contact with any contaminants at the <b>site</b> to any <b>waters</b> , roadside gutter or stormwater drain, unless otherwise authorised by this approval.                                                                                                                                                                                                                                                                                                     |
| <b>P7-WT6</b>  | <p>Stormwater on the <b>site</b> must be managed in accordance with the following hierarchy:</p> <ol style="list-style-type: none"> <li>1. avoidance, e.g. prevent the amount of contaminated stormwater generated;</li> <li>2. reuse, e.g. reuse contaminated stormwater;</li> <li>3. recycle, e.g. treat contaminated stormwater for reuse; and</li> <li>4. disposal, e.g. dispose of contaminated stormwater in a way that causes the least environmental harm and in accordance with the conditions of this approval.</li> </ol> |
| <b>P7-WT7</b>  | All <b>liquid</b> fuel and chemical tank storage must be <b>bunded</b> so that the capacity of the <b>bund</b> is sufficient to contain at least 100 % of the largest storage tank plus 10 % of the second largest tank within the <b>bund</b> .                                                                                                                                                                                                                                                                                     |
| <b>P7-WT8</b>  | All chemical and fuel drum storage must be <b>bunded</b> so that the capacity of the <b>bund</b> is sufficient to contain at least 25% of the <b>maximum</b> design storage volume within the <b>bund</b> .                                                                                                                                                                                                                                                                                                                          |
| <b>P7-WT9</b>  | All <b>bunding</b> must be constructed of materials which are impervious to the materials stored.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P7-WT10</b> | All <b>bunding</b> must be roofed where practicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>P7-WT11</b> | Where it is impractical to completely roof a <b>bunded</b> area the holder of this development approval must ensure that any stormwater captured within the <b>bund</b> is free from contaminants or wastes prior to any <b>release</b> .                                                                                                                                                                                                                                                                                            |
| <b>P7-WT12</b> | For any new <b>bunding</b> installed following the issue of this development approval a collection sump must be provided in the floor of the <b>bunding</b> to facilitate the removal of <b>liquids</b> . The <b>bund</b> floor must be graded so that the fall is towards the collection sump.                                                                                                                                                                                                                                      |
| <b>P7-WT13</b> | All <b>bunding</b> must be maintained free from gaps or cracks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-WT14</b> | <p>4. The <b>release</b> of contaminants to <b>waters</b> must comply with the following qualitative characteristics:</p> <ol style="list-style-type: none"> <li>1. comply with the quality characteristics limits in <i>Table P7-WT3 – Water quality release criteria</i>;</li> <li>2. the release must not have any properties or contain any organisms or other contaminants which, in the opinion of the <b>administering authority</b>, are capable of causing environmental harm or <b>environmental nuisance</b>.</li> </ol>  |
| <b>P7-WT15</b> | <p>Monitoring must be undertaken and <b>records</b> kept of contaminant <b>releases</b> to <b>waters</b> from all discharge locations for the parameters specified in <i>Table P7-WT3 – Water quality release criteria</i>. All determinations of the quality of contaminants released must be:</p> <ol style="list-style-type: none"> <li>1. made in accordance with methods prescribed in the latest edition of the Department of Environment, Science and Innovation <i>Water Quality Sampling Manual</i>; and</li> </ol>         |

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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|                | 2. carried out on samples that are representative of the discharge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P7-WT16</b> | A liner system must be installed and maintained in each new <b>landfill unit</b> to effectively: <ol style="list-style-type: none"> <li>1. minimise the likelihood of any <b>release</b> of contaminants to ground <b>waters</b>; and</li> <li>2. minimise likelihood of subsurface migration of landfill gas from the <b>landfill unit</b></li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>P7-WT17</b> | A <b>leachate</b> collection system must be installed and maintained to effectively and efficiently: <ol style="list-style-type: none"> <li>1. collect <b>leachate</b> generated in the <b>landfill unit(s)</b>; and</li> <li>2. convey the collected <b>leachate</b> out of the <b>landfill unit(s)</b> to an appropriate <b>leachate</b> storage facility; and</li> <li>3. minimise the height of the <b>leachate</b> above the floor of any <b>landfill unit</b></li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P7-WT18</b> | All ponds used for the storage or treatment of contaminants (including <b>leachate</b> and storm water run-off which has been in contact with waste materials) at or on the place to which this development approval relates must be constructed, installed and maintained: <ol style="list-style-type: none"> <li>1. so as to minimise the likelihood of any <b>release</b> of contaminants through the bed or banks of the pond to any <b>waters</b> (including ground water);</li> <li>2. so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies;</li> <li>3. so as to ensure the stability of the ponds' construction.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>P7-WT19</b> | The only contaminants to be <b>released</b> to <b>groundwater</b> are <b>releases</b> of <b>leachate</b> provided that such <b>releases</b> are minimised by taking all reasonable and practicable <b>measures</b> to minimise <b>leachate</b> generation and <b>leachate release</b> , for example lining systems and <b>leachate</b> collection systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>P7-WT20</b> | Notwithstanding condition P7-WT19, the <b>release</b> of contaminants to <b>groundwater</b> must not: <ol style="list-style-type: none"> <li>1. cause environmental harm; or</li> <li>2. cause surface expression of any <b>leachate</b> that may be <b>released</b> to any surface <b>waters</b> or stormwater drains.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P7-WT21</b> | A <b>groundwater</b> monitoring network must be installed for each <b>landfill unit</b> . The network must be: <ol style="list-style-type: none"> <li>1. installed and maintained by a person possessing appropriate qualifications and experience in the fields of hydrogeology and <b>groundwater</b> monitoring program design to be able to competently make recommendations about these matters; and</li> <li>2. include a sufficient number of 'bore(s) of compliance' that are located not more than 150 metres from the <b>landfill unit</b> or the boundary of the <b>landfill facility</b> whichever is the closer, and provides the following: <ol style="list-style-type: none"> <li>a) representative <b>groundwater</b> samples from each potentially affected aquifer;</li> <li>b) determination of background <b>groundwater</b> quality in hydraulically upgradient locations or, if this is not practicable, background bore(s) sampling equivalent local aquifer(s) that have not been affected by any <b>release</b> of contaminants to <b>groundwaters</b>; and</li> <li>c) determination of the quality of <b>groundwater</b> down gradient of any <b>release</b> of contaminants to <b>groundwater</b> including <b>groundwater</b> passing the relevant bore(s) of compliance.</li> </ol> </li> </ol> |
| <b>P7-WT22</b> | The registered operator of the <b>activity</b> must monitor and record quality of <b>groundwater</b> to detect any possible <b>release(s)</b> of contaminants. All determinations of contaminant <b>releases</b> must be:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                | <ol style="list-style-type: none"> <li>1. made in accordance with methods prescribed in the latest edition of the Department of Environment, Science and Innovation Water Quality Sampling Manual; and</li> <li>2. undertaken before, during, after deposition of waste in the <b>landfill unit</b>; and</li> <li>3. conducted at least at the frequency every three (3) months, locations determined by the <b>groundwater</b> monitoring network and for the following water quality characteristics: <ol style="list-style-type: none"> <li>a) Ammonia (as N)</li> <li>b) Carbonate/Bicarbonate (<math>\text{CO}_3/\text{HCO}_3</math>)</li> <li>c) Calcium</li> <li>d) Chloride</li> <li>e) Iron (total)</li> <li>f) Manganese (dissolved)</li> <li>g) Oxidised Nitrogen (as N)</li> <li>h) pH (field measured)</li> <li>i) Potassium</li> <li>j) Sodium</li> <li>k) Sulphate</li> <li>l) Specific conductance</li> <li>m) Total Organic Carbon (TOC)</li> <li>n) Zinc</li> <li>o) Magnesium</li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>P7-WT23</b> | <p>In association with <b>groundwater</b> monitoring, the registered operator of the activity must monitor and record quality of <b>leachate</b> (where present) in <b>landfill units</b> for the same water quality characteristics and using the same sampling protocols employed in <b>groundwater</b> monitoring. If no <b>leachate</b> is present in a <b>landfill unit</b> sump at the time of monitoring, a record of "no <b>leachate</b> present" is to be recorded.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>P7-WT24</b> | <p>The registered operator of the <b>activity</b> must monitor and record the quality of surface water at points upstream and downstream of the <b>landfill facility</b> to detect any possible <b>release(s)</b> of contaminants in accordance with the surface water monitoring program. The surface water monitoring program must be undertaken for, at least, the following water quality characteristics:</p> <ol style="list-style-type: none"> <li>1) pH (in-situ field measurement)</li> <li>2) Dissolved oxygen (in-situ field measurement)</li> <li>3) Specific conductance and salinity (in-situ field measurement)</li> <li>4) Turbidity (in-situ field measurement)</li> <li>5) Temperature (in-situ field measurement)</li> <li>6) General observations of receiving water upstream and downstream including presence absence of any slicks, algal blooms, discolouration, and indications of <b>leachate</b> such as iron staining.</li> <li>7) Daily rainfall as recorded at the nearest rainfall measuring station that reports that data to the Commonwealth Bureau of Meteorology or by an appropriately operated and maintained rainfall gauge located at the approved place.</li> <li>8) Ammonia (as N)</li> <li>9) Carbonate/Bicarbonate (<math>\text{CO}_3/\text{HCO}_3</math>)</li> <li>10) Calcium</li> <li>11) Chloride</li> <li>12) Iron (total)</li> <li>13) Manganese (dissolved)</li> <li>14) Oxidised Nitrogen (as N)</li> </ol> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15) Phosphorus (total)<br>16) Potassium<br>17) Sodium<br>18) Sulphate<br>19) Total Organic Carbon (TOC)<br>20) Zinc<br>21) Magnesium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
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| P7-WT25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | The registered operator of the <b>activity</b> must monitor and record the surface water quality, as often as is necessary, but not less frequently than quarterly for the characteristics required in items (1 to 21) as required in condition P7-WT24.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| Agency interest: Noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| Condition number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| P7-N1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Noise from the ERA must not cause an <b>environmental nuisance</b> at any <b>nuisance sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| P7-N2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | To achieve compliance with P7-N1 all noise from activities must not exceed the levels specified in <i>Table P7-N3 – Noise limits at any nuisance sensitive or commercial place</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| P7-N3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>Prior to commencing the <b>activity</b>, the holder of this approval must implement a noise management plan. The plan must address at least, but not be limited to, the following matters:</p> <ol style="list-style-type: none"><li>1. identification of compliance levels specified in <i>Table P7-N3 – Noise limits at any <b>nuisance sensitive</b> or <b>commercial place</b></i></li><li>2. identification of component noise sources and activities at the place/s which impact on <b>nuisance sensitive places</b>;</li><li>3. the measured and/or predicted level of these noise sources and activities at <b>nuisance sensitive places</b>;</li><li>4. the control or abatement <b>measures</b> that can be undertaken to reduce identified <b>intrusive noise</b> sources;</li><li>5. the level of noise at <b>nuisance sensitive places</b> that would be achieved from implementing these <b>measures</b>;</li><li>6. the handling of future noise complaints, including appropriate <b>onsite</b> contacts and details of contingency <b>measures</b> and actions if noise complaints are received; community liaison and consultation and training of staff in noise management practices.</li></ol> |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| <p style="text-align: center;"><b>Table P7-N3 - Noise limits at any nuisance sensitive or commercial place</b></p> <table><tr><th>Noise level dB(A)<br/>measured as</th><th colspan="3">Monday to Sunday (Public Holidays)</th></tr><tr><td></td><th>7am - 6pm</th><th>6pm - 10pm</th><th>10pm - 7am</th></tr><tr><td></td><th colspan="3">Noise measured at a 'Noise sensitive place'</th></tr><tr><td>L<sub>Aeq,adj</sub>, 1 hr.</td><td>42</td><td>41</td><td>40</td></tr><tr><td></td><th colspan="3">Noise measured at a 'Commercial place' (indoors)</th></tr></table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Noise level dB(A)<br>measured as | Monday to Sunday (Public Holidays) |  |  |  | 7am - 6pm | 6pm - 10pm | 10pm - 7am |  | Noise measured at a 'Noise sensitive place' |  |  | L <sub>Aeq,adj</sub> , 1 hr. | 42 | 41 | 40 |  | Noise measured at a 'Commercial place' (indoors) |  |  |
| Noise level dB(A)<br>measured as                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Monday to Sunday (Public Holidays)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7am - 6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6pm - 10pm                       | 10pm - 7am                         |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Noise measured at a 'Noise sensitive place'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
| L <sub>Aeq,adj</sub> , 1 hr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 41                               | 40                                 |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Noise measured at a 'Commercial place' (indoors)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                                    |  |  |  |           |            |            |  |                                             |  |  |                              |    |    |    |  |                                                  |  |  |

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|
|                        | L <sub>Aeq,adj</sub> , 1 hr.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 45 | 45 | 45 |
| P7-N4                  | When requested by the <b>administering authority</b> , noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 <b>days</b> to the <b>administering authority</b> . Monitoring must include: <ol style="list-style-type: none"><li>1. L<sub>Aeq,adj</sub>, 1 hr, L<sub>A90</sub>, adj, 1hr, L<sub>A10,adj</sub>, 1hr, and L<sub>A1,adj</sub>, 1hr; and</li><li>2. the level and frequency of occurrence of impulsive or tonal noise; and</li><li>3. atmospheric conditions including wind speed and direction; and</li><li>4. effects due to extraneous factors such as traffic noise; and</li><li>5. location, date and time of recording; and</li><li>6. details of measurement instrumentation and measurement procedure; and</li><li>7. an analysis of monitoring data must be provided in the context of defined limits as stated in P7-N3 of this approval.</li></ol>                                                                                                                                                                                                                                                                                                                              |    |    |    |
| P7-N5                  | The method of measurement and reporting of noise levels must comply with the latest edition of the <b>administering authority's</b> <i>Noise Measurement Manual</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |    |    |
| Agency interest: Waste |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |    |    |
| Condition number       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |
| P7-W1                  | Waste must not be <b>released</b> to the environment, stored, transferred or disposed contrary to any condition of this development approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |    |    |
| P7-W2                  | Waste must not be burnt or allowed to burn at the licensed place or removed and burnt elsewhere unless specifically permitted by this development approval.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |    |    |
| P7-W3                  | Notwithstanding any condition of this approval, the following waste materials are not permitted or allowed to be deposited in the <b>landfill unit</b> : <ol style="list-style-type: none"><li>1. <b>liquid</b> or semi <b>liquid</b> waste other than <b>liquid</b> or semi <b>liquid</b> waste which has been produced in carrying out the ERA;</li><li>2. hot ash;</li><li>3. material that is smouldering or a flame;</li><li>4. material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated mono cell approved in writing by the <b>administering authority</b>;</li><li>5. all radioactive wastes, unless otherwise approved under the <i>Radiation Safety Act 1999</i> or contaminated soil in accordance with P7-W4;</li><li>6. an explosive</li><li>7. ammunition, other than ammunition that no longer contains explosives,</li><li>8. pyrotechnics or propellants apart from trace residues that are no longer capable of supporting combustion or an explosive reaction; and</li><li>9. whole scrap tyres at the rate exceeding 10,000 equivalent passenger-tyre units (EPU) per annum.</li></ol> |    |    |    |
| P7-W4                  | Waste and any contaminated soil disposed of at the premises to which this environmental authority relates: <ol style="list-style-type: none"><li>1. must be accepted subject to effectively implementing risk assessment practices and</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    |    |

procedures for contaminant testing that ensure that the material accepted complies with the **maximum** contaminant levels and the allowable leaching contaminant levels prescribed in *Table P7-Wa - Maximum contaminant levels in soils* and *Table P7-W4b - Allowable leaching contaminant levels* respectively; and

2. if the contaminated soil is used as coverage material, contaminant levels must not exceed the **maximum** concentration limits in *Table P7-W4c - Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)*, must not cause contaminated stormwater **release** and must not include any soil that is contaminated due to the concentration of monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons.

**Table P7-W4a — Maximum contaminant levels in soils**

| Contaminant                                   | Maximum contaminant level for <b>clay lined</b> landfills (mg/kg) | Maximum contaminant level for <b>double lined</b> landfills (mg/kg) |
|-----------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------|
| <i>Monocyclic aromatic hydrocarbons (MAH)</i> |                                                                   |                                                                     |
| Benzene                                       | 10                                                                | 20                                                                  |
| Ethyl Benzene                                 | 500                                                               | 1,000                                                               |
| Toluene                                       | 300                                                               | 600                                                                 |
| Xylene                                        | 250                                                               | 500                                                                 |
| Total MAH                                     | 500                                                               | 1,000                                                               |
| <i>Polycyclic aromatic hydrocarbons (PAH)</i> |                                                                   |                                                                     |
| Total PAH                                     | 500                                                               | 1,000                                                               |
| <i>Phenolic contaminants</i>                  |                                                                   |                                                                     |
| <i>Non halogenated compounds:</i>             |                                                                   |                                                                     |
| Phenol                                        | 100                                                               | 250                                                                 |
| m-cresol                                      | 250                                                               | 500                                                                 |
| o-cresol                                      | 250                                                               | 500                                                                 |
| p-cresol                                      | 250                                                               | 500                                                                 |
| Total non halogenated phenol                  | 250                                                               | 500                                                                 |
| <i>Halogenated phenol</i>                     |                                                                   |                                                                     |
| Chlorophenol                                  | 1                                                                 | 5                                                                   |
| Pentachlorophenol                             | 5                                                                 | 20                                                                  |
| Trichlorophenol                               | 5                                                                 | 20                                                                  |
| Total halogenated phenol                      | 5                                                                 | 20                                                                  |
| <i>Chlorinated Hydrocarbons</i>               |                                                                   |                                                                     |
| <i>Chlorinated aliphatic compounds:</i>       |                                                                   |                                                                     |
| Carbon tetrachloride                          | 5                                                                 | 10                                                                  |
| 1,2 Dichloroethane                            | 10                                                                | 20                                                                  |

|  |                                                                  |                                                                                      |                                                                                       |
|--|------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | I,1 Dichloroethene                                               | 1                                                                                    | 1                                                                                     |
|  | Tetrachloroethene                                                | 10                                                                                   | 20                                                                                    |
|  | Trichloroethene                                                  | 25                                                                                   | 25                                                                                    |
|  | Total chlorinated aliphatic compounds                            | 50                                                                                   | 50                                                                                    |
|  | <i>Chlorinated aromatic compounds:</i>                           |                                                                                      |                                                                                       |
|  | Chlorobenzene                                                    | 100                                                                                  | 200                                                                                   |
|  | Hexachlorobenzene                                                | 1                                                                                    | 1                                                                                     |
|  | Total chlorinated aromatic compounds                             | 100                                                                                  | 200                                                                                   |
|  | Non scheduled solid polychlorinated biphenyls (PCBs)             | 2                                                                                    | 50                                                                                    |
|  | <i>Pesticides</i>                                                |                                                                                      |                                                                                       |
|  | Total organochlorine                                             | 5                                                                                    | 50                                                                                    |
|  | Total herbicides                                                 | 25                                                                                   | 50                                                                                    |
|  | Total carbamates                                                 | 25                                                                                   | 50                                                                                    |
|  | Total organophosphorus                                           | 10                                                                                   | 50                                                                                    |
|  | <i>Petroleum hydrocarbons</i>                                    |                                                                                      |                                                                                       |
|  | Total petroleum hydrocarbons (C <sub>6</sub> -C <sub>9</sub> )   | 500                                                                                  | 1,000                                                                                 |
|  | Total petroleum hydrocarbons (C <sub>10</sub> -C <sub>14</sub> ) | 5,000                                                                                | 10,000                                                                                |
|  | Total petroleum hydrocarbons (C <sub>15</sub> -C <sub>28</sub> ) | 10,000                                                                               | 50,000                                                                                |
|  | Total petroleum hydrocarbons (C <sub>29</sub> -C <sub>36</sub> ) | 10,000                                                                               | 50,000                                                                                |
|  | <b>Table P7-W4b — Allowable leaching contaminant levels</b>      |                                                                                      |                                                                                       |
|  | Contaminant                                                      | Allowable leaching contaminant levels (TCLP*) for <b>clay lined</b> landfills (mg/l) | Allowable leaching contaminant levels (TCLP) for <b>double lined</b> landfills (mg/l) |
|  | <i>Non specific contaminants</i>                                 |                                                                                      |                                                                                       |
|  | Biochemical oxygen demand                                        | 20,000                                                                               | 20,000                                                                                |
|  | Total organic carbon                                             | 10,000                                                                               | 10,000                                                                                |
|  | Petroleum hydrocarbons                                           | 25                                                                                   | 50                                                                                    |
|  | <i>Metals/non-metals</i>                                         |                                                                                      |                                                                                       |
|  | Antimony                                                         | 0.5                                                                                  | 5                                                                                     |

|  |                                               |       |       |
|--|-----------------------------------------------|-------|-------|
|  | Arsenic                                       | 0.5   | 5     |
|  | Barium                                        | 10    | 100   |
|  | Cadmium                                       | 0.05  | 0.5   |
|  | Chromium                                      | 0.5   | 5     |
|  | Cobalt                                        | 0.5   | 5     |
|  | Copper                                        | 10    | 100   |
|  | Lead                                          | 0.5   | 5     |
|  | Mercury                                       | 0.01  | 0.1   |
|  | Molybdenum                                    | 0.1   | 5     |
|  | Nickel                                        | 0.5   | 5     |
|  | Selenium                                      | 0.1   | 1     |
|  | Silver                                        | 0.5   | 5     |
|  | Thallium                                      | 0.1   | 1     |
|  | Tin                                           | 0.3   | 3     |
|  | Vanadium                                      | 0.5   | 5     |
|  | Zinc                                          | 50    | 500   |
|  | <i>Inorganic anions</i>                       |       |       |
|  | Bromide                                       | 5     | 50    |
|  | Chloride                                      | 6,000 | 6,000 |
|  | Cyanide (total)                               | 1     | 5     |
|  | Fluoride                                      | 15    | 150   |
|  | Nitrate                                       | 100   | 1,000 |
|  | Sulphate                                      | 2,500 | 4,000 |
|  | <i>Monocyclic aromatic hydrocarbon (MAH)</i>  |       |       |
|  | Benzene                                       | 0.1   | 1     |
|  | Ethyl benzene                                 | 5     | 50    |
|  | Toluene                                       | 3     | 30    |
|  | Xylene                                        | 2     | 20    |
|  | Total MAH                                     | 5     | 50    |
|  | <i>Polycyclic aromatic hydrocarbons (PAH)</i> |       |       |
|  | Anthracene                                    | 0.07  | 0.7   |
|  | Benz (a) anthracene                           | 0.005 | 0.05  |
|  | Benz (c) phenanthrene                         | 0.005 | 0.05  |
|  | Benzo (a) pyrene                              | 0.002 | 0.02  |
|  | Benzo (b) fluoranthene                        | 0.005 | 0.05  |

|                                        |       |      |
|----------------------------------------|-------|------|
| Benzo (k) fluoranthene                 | 0.005 | 0.05 |
| Chrysene                               | 0.01  | 0.1  |
| Dibenz (a,h) anthracene                | 0.002 | 0.02 |
| Dibenz (a,h) pyrene                    | 0.01  | 0.1  |
| Dimethylbenz (a) anthracene            | 0.005 | 0.05 |
| Fluoranthene                           | 0.02  | 0.2  |
| Indeno (1,2,3-cd) pyrene               | 0.01  | 0.1  |
| Naphthalene                            | 0.07  | 0.7  |
| Phenanthrene                           | 0.01  | 0.1  |
| Pyrene                                 | 0.07  | 0.7  |
| Total PAH                              | 0.1   | 1    |
| <i>Phenolic contaminants</i>           |       |      |
| <i>Non halogenated compounds:</i>      |       |      |
| Phenol                                 | 1     | 10   |
| m-cresol                               | 2     | 20   |
| o-cresol                               | 2     | 20   |
| p-cresol                               | 2     | 20   |
| <i>Halogenated phenols</i>             |       |      |
| Chlorophenol                           | 0.01  | 0.1  |
| Pentachlorophenol                      | 0.1   | 1    |
| Trichlorophenol                        | 0.1   | 1    |
| <i>Chlorinated hydrocarbons</i>        |       |      |
| <i>Chlorinated aliphatic compounds</i> |       |      |
| Carbon tetrachloride                   | 0.03  | 0.3  |
| 1,2 Dichloroethane                     | 0.1   | 1    |
| 1,1 Dichloroethene                     | 0.003 | 0.03 |
| Tetrachloroethene                      | 0.1   | 1    |
| Trichloroethene                        | 0.3   | 3    |
| <i>Chlorinated aromatic compounds</i>  |       |      |
| Chlorobenzene (total)                  | 1     | 10   |
| Hexachlorobenzene                      | 0.002 | 0.02 |
| <i>Pesticides</i>                      |       |      |
| <i>Organochlorine</i>                  |       |      |
| Aldrin                                 | 0.001 | 0.01 |
| Chlordane                              | 0.006 | 0.06 |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|
| Chlorpyrifos                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.01   | 0.03   |
| Dieldrin                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.001  | 0.01   |
| DDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.003  | 0.03   |
| Endrin                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.001  | 0.01   |
| Heptachlor                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.003  | 0.03   |
| Lindane                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.1    | 1      |
| Methoxychlor                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.1    | 1      |
| Toxaphene                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.005  | 0.05   |
| <i>Herbicides</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |        |
| 2,4-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1    | 1      |
| 2,4-DB                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.2    | 2      |
| 2,4,5 -T                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.002  | 0.02   |
| MCPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.2    | 2      |
| <i>Carbamates:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |        |
| Carbaryl                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.06   | 0.6    |
| Carbofuran                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.03   | 0.3    |
| <i>Organophosphoru</i>                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |        |
| Diazinon                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.01   | 0.1    |
| Methyl Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.006  | 0.06   |
| Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.03   | 0.3    |
| <i>Triazines:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |        |
| Atrazine                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.01   | 0.03   |
| Simazine                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.01   | 0.03   |
| <i>Fluorinated organic compounds</i>                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |        |
| Total fluorinated organic compounds (if <b>leachate</b> reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                       | 0.0003 | 0.0003 |
| Total fluorinated organic compounds (if <b>leachate</b> not reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                   | 0.05   | 0.05   |
| For any waste or soil contaminated by radioactive material, the gross alpha and gross beta <b>activity</b> concentration in the Toxicity Characteristic Leaching Procedure ( <b>TCLP</b> ) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta <b>activity</b> concentrations specified in the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines, 2011. |        |        |

\*Allowable leaching levels to be determined using the **TCLP** procedure mentioned in United States Environmental Protection Agency (EPA), Washington DC (2008) "Test methods for evaluating solid waste, physical/chemical methods" Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.

**Table P7-W4c — Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)**

| Contaminant                         | Maximum total contaminant levels in soils used as cover material (mg/kg) |
|-------------------------------------|--------------------------------------------------------------------------|
| Arsenic (total)                     | 200                                                                      |
| Beryllium                           | 40                                                                       |
| Cadmium                             | 40                                                                       |
| Chromium (iii)                      | 240,000                                                                  |
| Chromium (vi)                       | 200                                                                      |
| Copper                              | 2,000                                                                    |
| Lead                                | 600                                                                      |
| Manganese                           | 3,000                                                                    |
| Mercury (inorganic)                 | 30                                                                       |
| Methyl Mercury                      | 20                                                                       |
| Nickel                              | 600                                                                      |
| Zinc                                | 14,000                                                                   |
| PFOS (Perfluoro-octane sulfonate)   | 6                                                                        |
| PFOA (Perfluoro-octanoic acid)      | 16                                                                       |
| Total fluorinated organic compounds | 10 (not including PFOS & PFOA)                                           |

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P7-W5</b> | At all times while the environmentally relevant <b>activity</b> is operating, at least one person must be present who is responsible for the control and <b>operation</b> of the facility and whose duties must include but not be limited to: <ol style="list-style-type: none"> <li>controlling the reception, storage and removal of waste;</li> <li>maintaining the facility;</li> <li>controlling all employees working in the facility; and</li> <li>supervising all persons entering the facility.</li> </ol> |
| <b>P7-W6</b> | <b>Measures</b> must be taken to prevent unauthorised access to the <b>site</b> to which this approval relates.                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>P7-W7</b> | Clear access to the water supply for fire-fighting vehicles must be provided at all times.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P7-W8</b> | An effective fire break must be provided and maintained which complies with any requirements of the Queensland Fire and Rescue Authority to prevent bushfire spreading to the landfill.                                                                                                                                                                                                                                                                                                                              |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>P7-W9</b>  | <p>When the deposition of waste to any <b>landfill unit</b> ceases, the registered operator of the <b>activity</b> must install a final cover system to the <b>landfill unit</b>, which effectively minimises:</p> <ol style="list-style-type: none"> <li>1. infiltration of water into the <b>landfill unit</b>.</li> <li>2. the likelihood of any erosion occurring to either the final cover system or the landfilled materials.</li> <li>3. uncontrolled <b>release</b> of landfill gas.</li> </ol>                                                                                                                                                                                                   |
| <b>P7-W10</b> | <p>The final cover system must include at least:</p> <ol style="list-style-type: none"> <li>1. a layer of material of sufficiently low permeability to minimise infiltration; and</li> <li>2. an upper layer of earthen material that is capable of sustaining native plant growth.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>P7-W11</b> | <p>A <b>site</b> management plan pursuant to Chapter 7, Part 8, Division 5 of the <i>Environmental Protection Act 1994</i> must be developed and provided to the <b>administering authority</b> at least 12 months before the expected final receipt of waste in the <b>landfill unit</b>. The <b>site</b> management plan must include, but is not to be limited to, the future land use and actions <b>you</b> intend to take for compliance with the closure and post-closure care requirements of this approval.</p>                                                                                                                                                                                  |
| <b>P7-W12</b> | <p>Post-closure care of the <b>landfill unit</b> must be conducted following deposition of waste in the <b>landfill unit</b>, for:</p> <ol style="list-style-type: none"> <li>1. a period of 30 years; or</li> <li>2. such shorter period until the <b>landfill unit</b> and surrounding <b>site</b> are <b>geotechnically stable</b> and that no <b>release</b> of waste materials, <b>leachate</b>, landfill gas or other contaminants to the <b>environment</b> is likely.</li> </ol>                                                                                                                                                                                                                  |
| <b>P7-W13</b> | <p><b>Waste Records.</b> A record of all waste (excluding trackable waste) must be kept detailing all the following information:</p> <ol style="list-style-type: none"> <li>1. date of pickup of waste;</li> <li>2. description of waste;</li> <li>3. quantity of waste;</li> <li>4. origin of the waste; and</li> <li>5. destination of the waste.</li> </ol> <p><i>Note: Trackable wastes have similar recording requirements to this condition. Therefore, <b>records</b> of documents maintained in compliance with a waste tracking system established under the above Regulation or any other law for recording details for the transport of <b>regulated waste</b> satisfy this condition.</i></p> |
| <b>P7-W14</b> | <p>The registered operator must take all practicable and reasonable <b>measures</b> to prevent deposition of any <b>regulated waste</b> into any waste container used at the waste transfer station.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Part 8 – Site-specific conditions – Nambour Materials Recovery Facility

| Environmentally relevant activities                                                                                                                                                                                                                                                                                                                                               | Locations                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <p>ERA 54 – Mechanical waste reprocessing 2: Operating a facility for receiving and mechanically reprocessing, in a year, the following quantity of general waste – (c) more than 10,000t</p> <p>ERA 62 - Resource recovery and transfer facility operation 1: Operating a facility for receiving and sorting, dismantling, baling or temporarily storing - (b) general waste</p> | <p>66 Cooney Road BLI BLI QLD 4560<br/>Lot 3 on SP193049</p> |

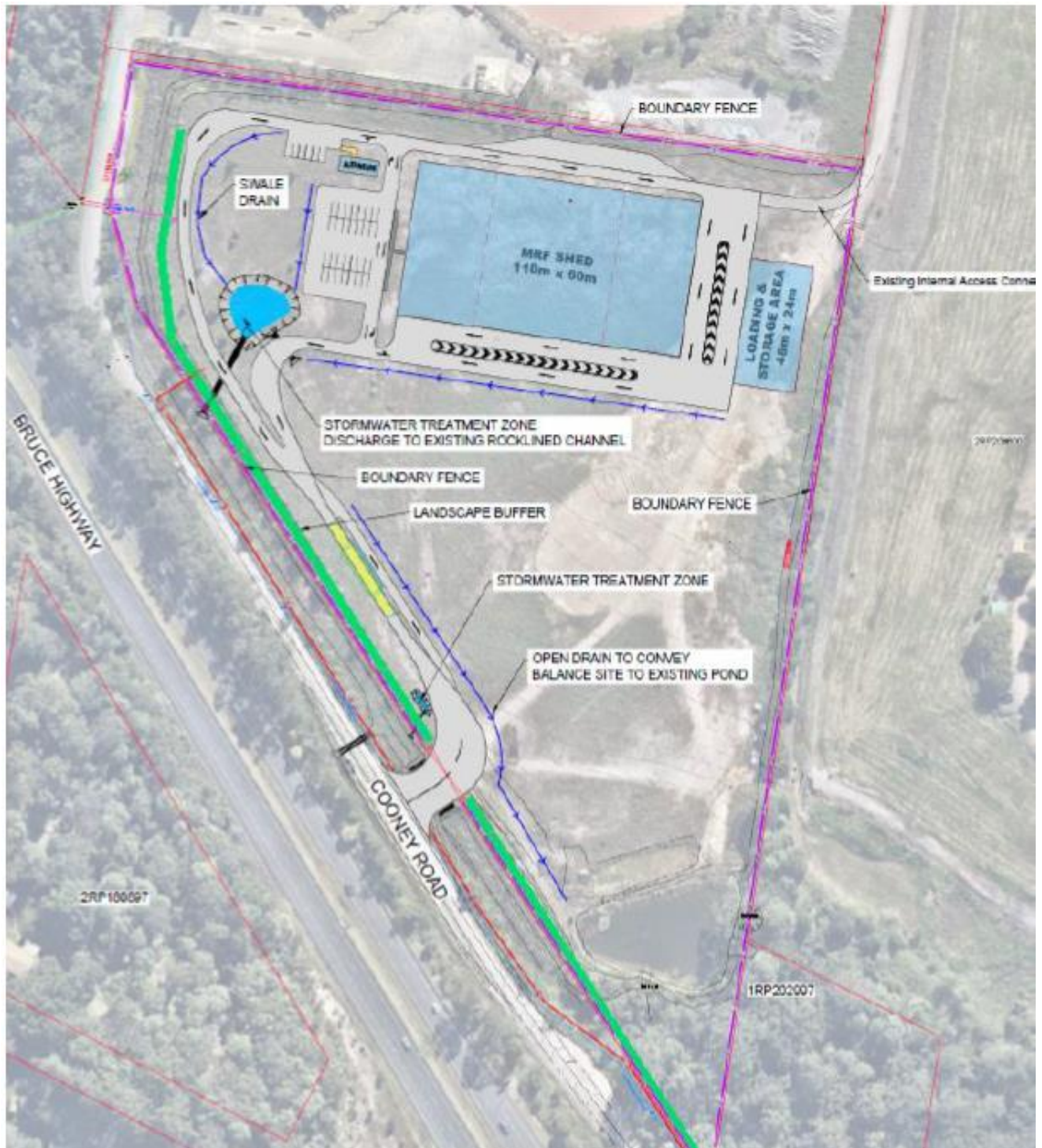
The environmentally relevant activities conducted at the locations as described above must be conducted in accordance with the following site specific conditions of approval.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P8-G1</b>             | <p><b>Activities</b> under this environmental authority must be conducted in accordance with the following requirements:</p> <ol style="list-style-type: none"> <li>1. sorting and reprocessing activities must be undertaken only within the area identified as the 'MRF shed' in <i>Part 8 Attachments – 1. Site Map</i>; and</li> <li>2. all waste stored at the <b>authorised place</b> must be stored under a roofed area.</li> </ol> |
| <b>P8-G2</b>             | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the <b>activities</b> .                                                                                                                                                                                                                                                                                                   |
| <b>P8-G3</b>             | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable within 24 hours of becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions taken.                                                                                                                                                |
| <b>P8-G4</b>             | Other than as permitted by this environmental authority, the <b>release</b> of a contaminant into the <b>environment</b> must not occur.                                                                                                                                                                                                                                                                                                   |
| <b>P8-G5</b>             | All <b>records</b> must be kept for a period of at least five years and provided to the <b>administering authority</b> upon request.                                                                                                                                                                                                                                                                                                       |
| <b>P8-G6</b>             | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                               |
| <b>P8-G7</b>             | All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities ( <b>NATA</b> ) certification, or an equivalent certification, for such analyses                                                                                                                                                                                                         |
| <b>P8-G8</b>             | <p><b>You</b> must record the following details of all environmental complaints received:</p> <ol style="list-style-type: none"> <li>1. date and time the complaint was received; and</li> <li>2. name and contact details of the complainant (if provided and authorised by the complainant); and</li> </ol>                                                                                                                              |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               | <ol style="list-style-type: none"> <li>3. nature of the complaint; and</li> <li>4. investigation undertaken; and</li> <li>5. conclusions formed; and</li> <li>6. actions taken.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>P8-G9</b>                  | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint of <b>environmental nuisance</b> arising from the activity. The monitoring results must be provided within 10 business days to the <b>administering authority</b> upon its request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>P8-G10</b>                 | <p>Written procedures must be developed and documented within three months of the environmental authority taking effect that:</p> <ol style="list-style-type: none"> <li>1. identify all potential risks to the <b>environment</b> from the activity, including during and outside routine <b>operations</b>, during closure and in an emergency; and</li> <li>2. identify <b>measures</b> to prevent or minimise the potential for environmental harm for each of the potential risks identified; and</li> <li>3. establish an inspection and maintenance program for plant and equipment including calibration and servicing that is in accordance with manufacturer's instructions; and</li> <li>4. establish a staff training program on obligations under this environmental authority and the <i>Environmental Protection Act 1994</i> to be conducted as part of staff inductions and at least annually; and</li> <li>5. establish processes to review environmental risks, incidents, performance and complaints.</li> </ol> |
| <b>P8-G11</b>                 | <p>Written procedures required by condition P8-G10 must be:</p> <ol style="list-style-type: none"> <li>1. implemented; and</li> <li>2. reviewed at least annually; and</li> <li>3. provided to the administering authority upon request at the time and in the format requested.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>P8-G12</b>                 | <p>Plant and equipment necessary to comply with the conditions of this environmental authority must be installed, operated and maintained:</p> <ol style="list-style-type: none"> <li>1. in a proper and effective manner; and</li> <li>2. in accordance with any written procedures developed under condition P8-G10 for the plant and equipment.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>P8-G13</b>                 | Chemicals and fuels in containers of greater than 15 litres must be stored within a <b>secondary containment system</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Agency interest: Air</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>P8-A1</b>                  | Odours or airborne contaminants must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Agency interest: Water</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

|                               |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P8-WT1                        | Contaminants must not be <b>released</b> to <b>waters</b> .                                                                                                                                                                                                                                                                                                                           |
| <b>Agency interest: Noise</b> |                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                      |
| P8-N1                         | Noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                        |
| P8-N2                         | Mechanical sorting and reprocessing activities must not be conducted during the hours between 9:00pm to 5:00am.                                                                                                                                                                                                                                                                       |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                      |
| P8-W1                         | All waste generated in carrying out the <b>activity</b> must be reused, recycled or removed to a facility that can lawfully accept the waste                                                                                                                                                                                                                                          |
| P8-W2                         | Other than <b>incidental wastes</b> , no <b>liquid</b> , <b>putrescible waste</b> or <b>regulated waste</b> is permitted to be received at the <b>site</b> .                                                                                                                                                                                                                          |
| P8-W3                         | All reasonable and practicable <b>measures</b> must be taken to exclude vectors and pest species to prevent: <ol style="list-style-type: none"> <li>1. <b>environmental nuisance</b> to occupiers of neighbouring premises; and</li> <li>2. any danger or risk to the health of any persons.</li> </ol>                                                                               |
| P8-W4                         | All reasonable and practicable <b>measures</b> must be taken to: <ol style="list-style-type: none"> <li>1. contain litter within the area identified as the 'MRF shed' in <i>Part 8 Attachments – 1. Site Map</i>; and</li> <li>2. retrieve any litter released beyond the boundaries of the area identified as the 'MRF shed' in <i>Part 8 Attachments – 1. Site Map</i>.</li> </ol> |
| <b>Agency interest: Land</b>  |                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                      |
| P8-L1                         | Contaminants must not be <b>released</b> to <b>land</b> .                                                                                                                                                                                                                                                                                                                             |
| P8-L2                         | Treatment and management of acid sulfate soils must comply with the guidance provided in the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .                                                                                                                                                                                                            |

Part 8 Attachments – 1. Site Map



## Definitions

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Act** means the *Environmental Protection Act 1994*.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of Environment, Science and Innovation or its successor or predecessors.

**Airblast overpressure** is the energy transmitted from the blast site within the atmosphere in the form of pressure waves. As these waves pass a given position, the pressure of the air rises very rapidly then falls more slowly then returns to the ambient value after a number of oscillations. The pressure wave consists of both audible (noise) and inaudible (concussion) energy. The **maximum** excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using the linear frequency-weighting.

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

**Approved plans** means the plans and documents listed in the Attachments to this environmental authority.

**Authorised place** means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

**Background** means noise, measured in the absence of the noise under investigation, as  $LA_{90, adj, T}$  being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Background noise level** means either:

- (a)  $LA_{90, adj, T}$  being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- (b)  $LA_{bg, T}$  being the arithmetic average of the **minimum** readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

**Blasting** is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a **site** or for reuse.

**Bund** means:

- (a) an earth mound or similar structure (e.g. a concrete block wall), impervious, constructed to contain spilled material (e.g. petrol, diesel, oil etc.); or
- (b) a structure to prevent or reduce soil erosion.

**Clay lined for Nambour Landfill** means a landfill lined with compacted clay at least 600 mm thick achieving a **maximum** permeability of  $1 \times 10^{-9}$  metres per second or alternate such as an engineered geosynthetic agreed in writing as equivalent in performance by the **administering authority**.

**Clinical waste** means waste that has the potential to cause disease including, for example, the following:

- a) animal waste
- b) discarded sharps
- c) human tissue waste
- d) laboratory waste

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Day** means any 24 hour period.

**Disturbed areas** includes areas:

- (a) that are susceptible to erosion;
- (b) that are contaminated by the **activity**; and/or
- (c) upon which stockpiles of soil or other materials are located.

**Double lined for Nambour Landfill** means a landfill lined with:

- (a) a compacted clay layer achieving a **maximum** permeability equivalent to a 600mm thick compacted clay layer with a **maximum** permeability of  $1 \times 10^{-9}$  metres per second overlain with 1.5mm **HDPE** synthetic liner or,
- (b) a geosynthetic clay liner (GCL) achieving a **maximum** permeability equivalent to a 600mm thick compacted clay layer with a **maximum** permeability of  $1 \times 10^{-9}$  metres per second, with an overlying **HDPE** geomembrane liner or,
- (c) alternate double liner system agreed in writing as equivalent in performance by the **administering authority**.

**Dust sensitive place** means —

- a) a dwelling, mobile home or caravan park, residential marina or other residential place;
- b) a motel, hotel or hostel;
- c) a kindergarten, school, university or other educational institution;
- d) a medical centre or hospital;
- e) a protected area;
- f) a park or gardens; or
- g) a place used as an office or for business or commercial purposes and includes the curtilage of any such place.

**Dwelling** means any of the following structures or vehicles that is principally used as a residence:

- a) a house, unit, motel, nursing home or other building or part of a building;
- b) a caravan, mobile home or other vehicle or structure on land;
- c) a water craft in a marina.

**Environment** as defined in section 8 of the *Environmental Protection Act 1994*.

**Environmental nuisance** as defined under Chapter 1 of the *Environmental Protection Act 1994*.

**Environmental value —**

1. a quality or physical characteristic of the environment that is conducive to ecological health or public amenity
2. or safety; or
3. another quality of the environment identified and declared to be an **environmental value** under an environmental protection policy or regulation.

**General waste** means waste other than **regulated waste**.

**Geotechnical stability of a landfill unit** means a situation where instability related to the excessive settlement and subsidence caused by decomposition and consolidation of the wastes deposited in **the landfill unit**, and sliding instability of the unit slope has ceased.

**Groundwater** means water that occurs naturally in, or is introduced artificially into, an aquifer.

**Groundwater monitoring system** means a system of **groundwater** monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the **uppermost aquifer** where the location of the **groundwater** monitoring devices is such that comparisons of **groundwater** quality and

**groundwater** level can be made between **groundwater** flowing from beneath the **site** (down-gradient flow) of the **activity** and **groundwater** flowing towards the **site** of the **activity** (up-gradient flow).

**HDPE** means high density polyethylene.

**Impulse adjustment** if impulsiveness is a significant characteristic of the sound within a measurement time interval, an adjustment shall be applied. If impulsive components are clearly audible, the adjustment will be 5 dB (A). If the components are only just detectable, an adjustment of 2 dB (A) will be appropriate.

**Incidental waste** means minor amounts of wastes occasionally found in defined waste loads and can be removed during sorting.

**Intrusive noise** means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or **vibration**:

- (a) is clearly audible to, or can be felt by, an individual; and
- (b) annoys the individual.

In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 - 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations.

**L<sub>Amax, adj, T</sub>** for Buderim and Cooloolm landfills means the average **maximum** A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 10 minutes, using Fast response

**L<sub>A10, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

**L<sub>A1, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

**Land** means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes tidal land).

**Landfill unit** means a discrete area of **land** or an excavation that receives solid waste.

**Landfill facility** means **land** and structures at the **site** approved used for the disposal of solid waste.

**Leachate** means a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the **site** that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

**Licensed vehicle** means a vehicle authorised to be used under the licence to transport **regulated waste**,

**Liquid** means any substance that:

- b) has an angle repose of less than five degrees; or
- c) becomes free flowing at or below 60 degrees Celsius or when it is transported; or
- d) is not generally capable of being picked up by a spade or shovel.

**Lower explosive limit** means the lowest percent by volume of a mixture of explosive gases in air that will propagate a flame at 25°C and atmospheric pressure.

**mg/L** means milligrams per litre.

**Maximum** means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated

**Measures** has the broadest interpretation and includes:

- (a) procedural **measures** such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines; and
- (b) physical **measures** such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

**Median** means the middle value, where half the data are smaller and half the data are larger. If the number of samples is even, the **median** is the arithmetic average of the two middle values.

**Minimum** means that the measured value of the quality characteristics or contaminant must not be less than the release limit stated

**NATA** means National Association of Testing Authorities.

**Noise sensitive place** means -

- a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- b) a motel, hotel or hostel; or
- c) a kindergarten, school, university or other educational institution; or
- d) a medical centre or hospital; or
- e) a protected area; or
- f) a park or gardens.

**Noxious** means harmful or injurious to health or physical well-being.

**NTU** means nephelometric turbidity units.

**Nuisance sensitive place** includes;

- a) a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- b) a motel, hotel or hostel; or
- c) a kindergarten, school, university or other educational institution; or
- d) a medical centre or hospital; or
- e) a **protected area** under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
- f) a public thoroughfare, park or gardens; or
- g) a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Odour sensitive place** has the same meaning as **dust sensitive place**.

**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

**Peak particle velocity (ppv)** means a measure of ground **vibration** magnitude that is the **maximum** rate of change of ground displacement with time, usually measured in millimetres/second (mms<sup>-1</sup>).

**Protected area** means-

- a) a protected area under the *Nature Conservation Act 1992*; or
- b) a marine park under the *Marine Parks Act 2004*; or
- c) a World Heritage Area.

**Putrescible waste** means waste food or waste animal matter (including dead animals and animal parts), and includes any mixtures of such wastes.

**R1** means the release point from the high efficiency sediment basin at the Nambour landfill identified as 'HES basin', as per *Part 1 Attachments – 2. Approved stormwater basins*, being a drain or overflow spillway located at approximately Lat -26.61339 Long 152.98255.

**R2** means the release point from the high efficiency sediment basin at the Nambour landfill identified as 'Proposed HES basin', as per *Part 1 Attachments – 2. Approved stormwater basins*, being a drain or overflow spillway located at approximately Lat -26.61601 Long 152.98564.

**Range** means that the measured value of the quantity characteristic or contaminant must not be greater than the higher limit stated nor less than the lower release limit stated

**Records** include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

**Regulated waste** means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 2019*.

**Release (of a contaminant into the environment)** means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

**Secondary containment system** means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a) a **dwelling**, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- b) a motel, hotel or hostel; or
- c) a kindergarten, school, university or other educational institution; or
- d) a medical centre or hospital; or
- e) a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
- f) a public thoroughfare, park or gardens; or
- g) for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2019*.

**Short-term (limit)** means a limit is applied to five consecutive samples (on a rolling basis for limit calculations) where consecutive samples are taken on a half-hourly basis.

**Site** means **land** or tidal **waters** on or in which it is proposed to carry out the development approved under this environmental authority.

**TCLP** means a toxicity characteristic leaching procedure.

**Toxic material means:**

1. cytotoxic wastes;
2. drugs and poisons as cited in the Standards for Uniform Scheduling of Drugs and Poisons (Schedules 8 and 9) as per the Poisons (Health and Drugs) Regulation 1996; and
3. any other material that:
  - a. has contaminant concentrations in the waste exceeding the allowable levels in Table P7-W4a; or
  - b. has leaching contaminant levels in the waste when measured in accordance with toxicity characteristic leaching procedure (TCLP), exceeding the concentrations prescribed in Table P7-W4b.

**Uppermost aquifer** means the geologic formation nearest to the natural ground surface that is an aquifer. The term includes any aquifers that are likely to be hydraulically interconnected with this aquifer within the **landfill facility** property boundary.

**Vibration** is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

**Vibration sensitive place** means a noise **sensitive place** or a **commercial place**.

**W1** means a monitoring location in stormwaters captured within the high efficiency sediment basin identified as 'HES basin', as per *Part 1 Attachment 2 – Approved stormwater basins*.

**W2** means a monitoring location in stormwaters captured within the high efficiency sediment basin identified as 'Proposed HES basin', as per *Part 1 Attachment 2 – Approved stormwater basins*.

**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial **watercourse**, bed and bank of any **waters**, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and **groundwater** and any part thereof.

**Watercourse** means a river, creek or stream in which water flows permanently or intermittently:

- a) in a natural channel, whether artificially improved or not; or
- b) In an artificial channel that has changed the course of the **watercourse**.

**Works or operation** means the development approved under this environmental authority.

**You** means the holder of the environmental authority.

**24 hour storm event with an average recurrence interval of 1 in 2 years** means the **maximum** rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 2 years, for a Type A sediment basin design in accordance with Appendix B of the *Best Practice Erosion and Sediment Control document*, International Erosion Control Association Australasia (2018).

**24 hour storm event with an average recurrence interval of 1 in 5 years** means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 5 years. For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 5 years, identifies a rainfall intensity of 7.09mm/hour. The rainfall depth for this event is therefore 24 hour x 7.09mm/hour = 170.16mm. **24 hour storm event with an average recurrence interval of 1 in 10 years** means the **maximum** rainfall depth from a 24-hour duration precipitation event with an average recurrence interval of once in 10 years. For example, an Intensity–Frequency–Duration table for a 24-hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.

**24 hour storm event with an average recurrence interval of 1 in 20 years** means the **maximum** rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 20 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 20 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.*

**20<sup>th</sup> percentile** means the value below which 20 percent of the monitoring observations may be found. It should be calculated using PERCENTILE function employed by Microsoft Excel.

**80<sup>th</sup> percentile** means the value below which 80 percent of the monitoring observations may be found. It should be calculated using PERCENTILE function employed by Microsoft Excel.

**90<sup>th</sup> percentile** means the value below which 90 percent of the monitoring observations may be found. It should be calculated using PERCENTILE function employed by Microsoft Excel.

**99<sup>th</sup> percentile** means the value below which 99 percent of the monitoring observations may be found. It should be calculated using PERCENTILE function employed by Microsoft Excel.

**END OF ENVIRONMENTAL AUTHORITY**

**Appendix B.**

**Noosa Council Landfill Environmental Authority EPPR01855314**

# Permit

## Environmental Protection Act 1994

### Environmental authority EPPR01855314

*This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.*

#### Environmental authority number: EPPR01855314

#### Environmental authority takes effect on the day of the approval.

The anniversary day of this environmental authority remains **03 February**. Payment of the annual fee will be due each year on this day.

#### Environmental authority holder

| Name(s)             | Registered address                 |
|---------------------|------------------------------------|
| Noosa Shire Council | 9 Pelican Street TEWANTIN QLD 4565 |

#### Environmentally relevant activity and location details

| Environmentally relevant activities                                                                                                                                                          | Location                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t                            | 561 Eumundi Noosa Road DOONAN QLD 4562;<br>Lot 77 Plan SP298776 |
| ERA 62 - Resource recovery and transfer facility operation: 1 operating a facility for receiving and sorting, dismantling, baling or temporarily storing—(b) general waste;                  |                                                                 |
| ERA 62 - Resource recovery and transfer facility operation: 1 operating a facility for receiving and sorting, dismantling, baling or temporarily storing—(c) category 2 regulated waste; and |                                                                 |
| ERA 62 - Resource recovery and transfer facility operation: 2 operating a facility for receiving and sorting, baling or temporarily storing end-of-life tyres only;                          |                                                                 |

| Environmentally relevant activities                                                                                                                                                    | Location                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| ERA 54 - Mechanical waste reprocessing 2: Operating a facility for receiving and mechanically reprocessing, in a year, the following quantity of general waste - (c) more than 10,000t | 561 Eumundi Noosa Road DOONAN QLD 4562;<br>Lot 77 Plan SP298776 |

### Additional information for applicants

#### Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

#### Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website [www.qld.gov.au](http://www.qld.gov.au), using the search term 'duty to notify'.

#### Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise- one the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

23 June 2021

Date

Liz Clarke  
Department of Environment and Science  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**Enquiries:**  
Utilities and Government Organisations  
Assessment  
Department of Environment and Science

Phone: 1300 130 372  
Email: [palm@des.qld.gov.au](mailto:palm@des.qld.gov.au)

### **Obligations under the *Environmental Protection Act 1994***

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

### **Other permits required**

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access state controlled roads), the Department of Natural Resources, Mines and Energy (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

### **Obligations under the *Mining and Quarrying Safety and Health Act 1999***

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at [www.dnrm.qld.gov.au](http://www.dnrm.qld.gov.au), or phone 13 QGOV ( 13 74 68 ) or your local Mines Inspectorate Office.

### **Development Approval**

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of Environment and Science to ensure that you have the most current version of the environmental authority relating to this site.

## Conditions of environmental authority

| Environmentally relevant activities                                                                                                                                                          | Location                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| ERA 60 - Waste disposal 1: Operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) (a) less than 50,000t                            | 561 Eumundi Noosa Road DOONAN QLD 4562;<br>Lot 77 Plan SP298776 |
| ERA 62 - Resource recovery and transfer facility operation: 1 operating a facility for receiving and sorting, dismantling, baling or temporarily storing—(b) general waste;                  |                                                                 |
| ERA 62 - Resource recovery and transfer facility operation: 1 operating a facility for receiving and sorting, dismantling, baling or temporarily storing—(c) category 2 regulated waste; and |                                                                 |
| ERA 62 - Resource recovery and transfer facility operation: 2 operating a facility for receiving and sorting, baling or temporarily storing end-of-life tyres only;                          |                                                                 |
| ERA 54 - Mechanical waste reprocessing 2: Operating a facility for receiving and mechanically reprocessing, in a year, the following quantity of general waste- (c) more than 10,000t        |                                                                 |

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site-specific conditions of the approval.

| Agency interest: General                             |                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number                                     | Condition                                                                                                                                                                                                                                                                                                                |
| <b>Minimise likelihood of environmental harm</b>     |                                                                                                                                                                                                                                                                                                                          |
| <b>G1</b>                                            | All reasonable and practicable <b>measures</b> must be taken to minimise the likelihood of environmental harm being caused.                                                                                                                                                                                              |
| <b>Notification</b>                                  |                                                                                                                                                                                                                                                                                                                          |
| <b>G2</b>                                            | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable, or at most, within 24 hours of <b>you</b> becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions undertaken. |
| <b>Release of a contaminant into the environment</b> |                                                                                                                                                                                                                                                                                                                          |
| <b>G3</b>                                            | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                        |

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Records</b>                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>G4</b>                      | All information and <b>records</b> that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and <b>records</b> required by the conditions of this environmental authority must be provided to the <b>administering authority</b> upon request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Monitoring and Analysis</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>G5</b>                      | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>G6</b>                      | All laboratory-based analyses required under this environmental authority must be carried out by a laboratory that has <b>NATA</b> certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of water for pH, temperature, electrical conductivity, turbidity, and dissolved oxygen; and methane gas monitoring conducted as per condition A4.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>G7</b>                      | The following details must be recorded and provided to the <b>administering authority</b> when requested for all complaints received: <ul style="list-style-type: none"> <li>a) time, date, name and contact details of the complainant;</li> <li>b) reasons for the complaint;</li> <li>c) and investigations undertaken;</li> <li>d) conclusions formed; and</li> <li>e) any actions taken.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Written procedures</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>G8</b>                      | The <b>activity</b> must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> <li>1. identify potential risks to the environment from the <b>activity</b> during routine operations, closure and an emergency; and</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for <b>environmental harm</b>; and</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition; and</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner; and</li> <li>5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and</li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |
| <b>Litter</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>G9</b>                      | All reasonable and practicable <b>measures</b> must be taken to contain litter within the <b>waste operations area</b> , and retrieve litter released. As a minimum, litter must be retrieved within one business day following wind events exceeding 25 km/hour and litter must not move beyond the boundaries of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Leachate</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>G10</b>                     | A <b>leachate</b> collection system must be designed by an <b>appropriately qualified person</b> and installed and maintained to: <ol style="list-style-type: none"> <li>1. collect <b>leachate</b> generated in the <b>landfill unit</b>;</li> <li>2. convey the collected <b>leachate</b> out of the <b>landfill unit</b> to an appropriate <b>leachate</b> storage facility; and</li> <li>3. restrict the height of the <b>leachate</b> above the liner system to a maximum level of 300mm.</li> </ol>                                                                                                                                                                                                                                                                                                                                                  |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>G11</b>                      | <p><b>Leachate</b> and stormwater runoff which has been in contact with waste materials in the <b>landfill unit</b>, must be collected in the <b>leachate</b> storage facility and be:</p> <ol style="list-style-type: none"> <li>1. treated in the <b>leachate</b> treatment plant and discharged to sewer in accordance with the requirements of the relevant water utility; or</li> <li>2. recirculated through waste disposed in the <b>landfill unit</b>; or</li> <li>3. treated by alternative technologies agreed by the <b>administering authority</b> for offsite disposal, discharge, or on-site reuse; or</li> <li>4. disposed of at a facility that is approved to receive such waste.</li> </ol>                                                                                                                                                                                                                                                                                               |
| <b>Vectors and pest species</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>G12</b>                      | <p>All reasonable and practicable <b>measures</b> must be taken to exclude vectors and pest species to the extent necessary to prevent:</p> <ol style="list-style-type: none"> <li>1. nuisance to occupiers of neighbouring premises; and</li> <li>2. any danger or risk to the health of any persons.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Site Security</b>            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>G13</b>                      | Measures must be taken to prevent unauthorised access to the <b>landfill facility</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Agency interest: Air</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Condition number</b>         | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>A1</b>                       | Odours or airborne contaminants which are <b>noxious</b> or <b>offensive</b> or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dust</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>A2</b>                       | <p><b>The</b> following materials must not be used for dust suppression purposes:</p> <ol style="list-style-type: none"> <li>1. <b>leachate</b> or landfill gas condensate; or</li> <li>2. waste oil or other hydrocarbons.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>A3</b>                       | <p>When requested by the <b>administering authority</b> in writing, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the <b>administering authority</b> following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected sensitive place and at an upwind control site(s) and must include:</p> <ol style="list-style-type: none"> <li>a) for a complaint alleging dust nuisance, dust deposition;</li> <li>b) for a complaint alleging adverse health effects caused by dust, total suspended particulates, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM<sub>10</sub>) and an aerodynamic diameter of less than 2.5 micrometre (µm) (PM<sub>2.5</sub>) suspended in the atmosphere over a 24hr averaging period.</li> </ol> |
| <b>Landfill gas</b>             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>A4</b>                       | <p>Landfill gas must not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 500 parts per million at a height of 50mm above the final and intermediate cover surface including the batter slopes of the <b>landfill unit</b>; and</li> <li>2. 25 percent of the lower explosive limit when measured in facility structures (but excluding facility structures used for landfill gas control and recovery, and <b>leachate</b> collection system components; and the lower explosive limit at the landfill facility boundary.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| A5                                     | A landfill gas monitoring program must be established and implemented for each <b>landfill unit</b> to measure methane levels in facility structures and at the landfill site <b>boundary</b> , as prescribed by condition A4. The program must consist of gas monitoring devices and be developed by an <b>appropriately qualified person</b> in the fields of hydrogeology and landfill gas monitoring program design to be able to competently make recommendations about these matters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
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| A6                                     | If methane gas levels exceeding methane standards referred to in condition A4 are detected, all necessary steps must immediately be taken to ensure protection of human health.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| A7                                     | Landfill gas must be reused or efficiently flared in a manner that avoids environmental harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| Agency interest: Noise                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| Condition number                       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| N1                                     | <p>Noise from the <b>activity</b> must not exceed the levels identified in Table 1—Noise limits and noise must be measured in accordance with the associated monitoring requirements.</p> <p style="text-align: center;"><b>Table 1—Noise limits</b></p> <table><tr><th rowspan="3">Noise level<br/>dB(A)<br/>measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays and public holidays</th></tr><tr><th>7am-6pm</th><th>6pm-10pm</th><th>10pm-7am</th><th>9am-6pm</th><th>6pm-10pm</th><th>10pm-9am</th></tr><tr><th colspan="6">Noise measured at a 'Noise sensitive place'</th></tr><tr><td>L<sub>A10</sub>, adj, 10 mins</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td></tr><tr><td>L<sub>A1</sub>, adj, 10 mins</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr><tr><th colspan="7">Noise measured at a 'Commercial place'</th></tr><tr><td>L<sub>A10</sub>, adj, 10 mins</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr><tr><td>L<sub>A1</sub>, adj, 10 mins</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td></tr></table> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>All monitoring devices must be correctly calibrated and maintained.</li><li>Any monitoring must be in accordance with the most recent version of the <b>administering authority's</b> Noise Measurement Manual.</li><li>Any monitoring of noise emissions from the <b>activity</b> must be undertaken when the <b>activity</b> is in operation.</li></ol> | Noise level<br>dB(A)<br>measured as | Monday to Saturday |                             |          | Sundays and public holidays |          |  | 7am-6pm | 6pm-10pm | 10pm-7am | 9am-6pm | 6pm-10pm | 10pm-9am | Noise measured at a 'Noise sensitive place' |  |  |  |  |  | L <sub>A10</sub> , adj, 10 mins | Bkg + 5 | Bkg + 5 | Bkg + 0 | Bkg + 5 | Bkg + 5 | Bkg + 0 | L <sub>A1</sub> , adj, 10 mins | Bkg + 10 | Bkg + 10 | Bkg + 5 | Bkg + 10 | Bkg + 10 | Bkg + 5 | Noise measured at a 'Commercial place' |  |  |  |  |  |  | L <sub>A10</sub> , adj, 10 mins | Bkg + 10 | Bkg + 10 | Bkg + 5 | Bkg + 10 | Bkg + 10 | Bkg + 5 | L <sub>A1</sub> , adj, 10 mins | Bkg + 15 | Bkg + 15 | Bkg + 10 | Bkg + 15 | Bkg + 15 | Bkg + 10 |
| Noise level<br>dB(A)<br>measured as    | Monday to Saturday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |                    | Sundays and public holidays |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
|                                        | 7am-6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                     | 6pm-10pm           | 10pm-7am                    | 9am-6pm  | 6pm-10pm                    | 10pm-9am |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
|                                        | Noise measured at a 'Noise sensitive place'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| L <sub>A10</sub> , adj, 10 mins        | Bkg + 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Bkg + 5                             | Bkg + 0            | Bkg + 5                     | Bkg + 5  | Bkg + 0                     |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| L <sub>A1</sub> , adj, 10 mins         | Bkg + 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bkg + 10                            | Bkg + 5            | Bkg + 10                    | Bkg + 10 | Bkg + 5                     |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| Noise measured at a 'Commercial place' |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| L <sub>A10</sub> , adj, 10 mins        | Bkg + 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bkg + 10                            | Bkg + 5            | Bkg + 10                    | Bkg + 10 | Bkg + 5                     |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| L <sub>A1</sub> , adj, 10 mins         | Bkg + 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Bkg + 15                            | Bkg + 10           | Bkg + 15                    | Bkg + 15 | Bkg + 10                    |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| N2                                     | <p>When required by the <b>administering authority</b> as per condition G7, noise monitoring must be undertaken, in accordance with the associated monitoring requirements of Table 1—Noise limits, and the results notified within 14 days to the <b>administering authority</b> following completion of monitoring. Monitoring must include:</p> <ol style="list-style-type: none"><li>L<sub>A 10</sub>, adj, 10 mins,</li><li>L<sub>A 1</sub>, adj, 10 mins,</li><li>Background noise as L<sub>A90,adj, T</sub></li><li>the level and frequency of occurrence of impulsive or tonal noise;</li><li>atmospheric conditions including wind speed and direction;</li><li>effects due to extraneous factors such as traffic noise; and</li><li>location, date and time of recording.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| Agency interest: Water                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |
| Condition number                       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                     |                    |                             |          |                             |          |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                                 |         |         |         |         |         |         |                                |          |          |         |          |          |         |                                        |  |  |  |  |  |  |                                 |          |          |         |          |          |         |                                |          |          |          |          |          |          |

| Release To Waters                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |            |                                                                                                                                                                                              |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
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| WT1                                   | <p>Site erosion protection measures and sediment control measures must be implemented and must have the hydraulic effectiveness to treat stormwater for 90% of the annual runoff for each stormwater catchment.</p> <p>Where soils are temporarily exposed for the construction of new facilities or to facilitate changes in landfill design, all reasonable and practical measures must be implemented to minimise the amount of sediments able to discharge from the site. As a minimum the following design criteria apply:</p> <ol style="list-style-type: none"> <li>1. Collect and drain stormwater from disturbed soils to a sediment basin sized to contain an 80th% five-day event or similar; and</li> <li>2. The design life and design storm for temporary drainage works to convey waters to the sediment basin and around disturbed areas are: <ol style="list-style-type: none"> <li>a) Disturbed area open for &lt;12 months—1 in 2-year ARI event plus 150mm freeboard; and</li> <li>b) Disturbed area open for 12-24 months—1 in 5-year ARI event plus 150mm freeboard; and</li> <li>c) Disturbed area open for &gt; 24 months—1 in 10-year ARI event plus 150mm freeboard; and</li> <li>d) Temporary culvert crossing—minimum 1 in 1-year ARI hydraulic capacity</li> </ol> </li> </ol>                                                                                                                                                                                                                                                                                                                                                                                |               |            |                                                                                                                                                                                              |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
|                                       | <p>The <b>release</b> of collected and treated stormwater to <b>waters</b>, from areas of the site not likely to be contaminated with waste materials, must be in accordance with Table 2— Compliance limits for controlled release of treated stormwater to surface waters.</p> <p><b>Table 2—Compliance limits for controlled release of treated stormwater to surface waters</b></p> <table> <tr> <th>Quality Characteristics</th><th>Release Point</th><th>Release Limit</th><th>Limit Type</th><th>Monitoring Frequency</th></tr> <tr> <td>pH (pH Units)</td><td>SW2 and SW5</td><td>6.5 - 9.0</td><td>Range</td><td>Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.</td></tr> <tr> <td>Specific Conductance (µS/cm)</td><td>SW2 and SW5</td><td>1500</td><td>Maximum</td><td>Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.</td></tr> <tr> <td>Dissolved Oxygen (mg/L)</td><td>SW2 and SW5</td><td>6</td><td>Minimum</td><td>Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.</td></tr> <tr> <td>Total and dissolved aluminium* (mg/L)</td><td>SW2 and SW5</td><td>N/A</td><td>N/A</td><td>Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.</td></tr> <tr> <td>Suspended Solids (mg/L)</td><td>SW2 and SW5</td><td>50</td><td>Maximum</td><td>Commencement of <b>release</b> then weekly thereafter for a minimum of 5 events and until a reliable TSS:NTU correlation is established and agreed to in writing by the <b>administering</b></td></tr> </table> |               |            |                                                                                                                                                                                              | Quality Characteristics | Release Point | Release Limit | Limit Type | Monitoring Frequency | pH (pH Units) | SW2 and SW5 | 6.5 - 9.0 | Range | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required. | Specific Conductance (µS/cm) | SW2 and SW5 | 1500 | Maximum | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required. | Dissolved Oxygen (mg/L) | SW2 and SW5 | 6 | Minimum | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required. | Total and dissolved aluminium* (mg/L) | SW2 and SW5 | N/A | N/A | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required. | Suspended Solids (mg/L) | SW2 and SW5 | 50 | Maximum |
| Quality Characteristics               | Release Point                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Release Limit | Limit Type | Monitoring Frequency                                                                                                                                                                         |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
| pH (pH Units)                         | SW2 and SW5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6.5 - 9.0     | Range      | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.                                                                                        |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
| Specific Conductance (µS/cm)          | SW2 and SW5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1500          | Maximum    | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.                                                                                        |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
| Dissolved Oxygen (mg/L)               | SW2 and SW5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 6             | Minimum    | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.                                                                                        |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
| Total and dissolved aluminium* (mg/L) | SW2 and SW5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | N/A           | N/A        | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required.                                                                                        |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |
| Suspended Solids (mg/L)               | SW2 and SW5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50            | Maximum    | Commencement of <b>release</b> then weekly thereafter for a minimum of 5 events and until a reliable TSS:NTU correlation is established and agreed to in writing by the <b>administering</b> |                         |               |               |            |                      |               |             |           |       |                                                                                                       |                              |             |      |         |                                                                                                       |                         |             |   |         |                                                                                                       |                                       |             |     |     |                                                                                                       |                         |             |    |         |

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Turbidity (NTU)                                                                                                                                                                                                                                                                                                                                                                                                | SW2 and SW5 | The established correlation of turbidity with total suspended solids (TSS) | The NTU value that correlates to 50 mg/L TSS with a correlation R value of 0.9 | Commencement of <b>release</b> then weekly thereafter. If no release occurs, no sampling is required. |
| <p>* Monitoring of dissolved aluminium only required when polyaluminium chloride (PAC) or other aluminium based coagulants are being used.</p> <p># New correlations must be established where new soil types become exposed on the site.</p> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>Monitoring must be in accordance with the methods prescribed in the current edition of the <b>administering authority's</b> Monitoring and Sampling Manual.</li><li>Release points SW2 and SW5 are described as the overflow weirs from high efficiency sediment basins shown in <i>Appendix A – Release points</i>.</li><li>Samples must be taken as representative samples of the discharge water.</li><li>All determinations must employ analytical practical quantification limits sufficiently sensitive enough to enable meaningful comparisons to be made against water quality objectives/limits relevant to the particular water quality characteristic.</li><li>Monitoring must be undertaken during a <b>release</b> as per the frequency stated.</li><li>All monitoring devices must be correctly calibrated and maintained.</li></ol> |                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitoring of contaminant <b>releases</b> from release points SW2 and SW5 must be undertaken in accordance with condition WT2.                                                                                                                                                                                                                                                                                 |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | In addition to WT2, the <b>release to waters</b> from release points SW2 and SW5 must not: <ol style="list-style-type: none"><li>have any other properties at a concentration that is capable of causing environmental harm; or</li><li>produce any slick or other visible evidence of oil or grease, nor contain visible floating oil, grease, scum, litter or other visually objectionable matter.</li></ol> |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Releases to waters</b> from release points SW2 and SW5 must not cause erosion at the point of release.                                                                                                                                                                                                                                                                                                      |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT6</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Acid sulfate soils must be managed such that contaminants are not directly or indirectly released to any <b>waters</b> .                                                                                                                                                                                                                                                                                       |             |                                                                            |                                                                                |                                                                                                       |
| <b>Groundwater Management</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT7</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | The only contaminants to be <b>released</b> to groundwater are <b>releases</b> of leachate provided that such <b>releases</b> are minimised by taking all reasonable and practicable measures current at the time of construction of the landfill cell to minimise leachate generation and leachate <b>release</b> .                                                                                           |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT8</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Notwithstanding condition WT7, the <b>release</b> of contaminants to groundwater must not: <ol style="list-style-type: none"><li>cause environmental harm; or</li><li>cause surface expression of any leachate that may be <b>released</b> to any <b>waters</b>.</li></ol>                                                                                                                                     |             |                                                                            |                                                                                |                                                                                                       |
| <b>Receiving Environment Monitoring Program</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                            |                                                                                |                                                                                                       |
| <b>WT9</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | A receiving environment monitoring program must be designed and implemented by <b>appropriately qualified persons</b> to monitor the effects of the <b>activity</b> on surface <b>waters</b> and groundwater.                                                                                                                                                                                                  |             |                                                                            |                                                                                |                                                                                                       |

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| <b>WT10</b> | <p>The receiving environment monitoring program required by condition WT9, must include at least the following:</p> <ol style="list-style-type: none"> <li>1. be designed in accordance with the <b>administering authority's</b> Receiving environment monitoring program guideline; and</li> <li>2. include at least the following: <ol style="list-style-type: none"> <li>a) A surface water and ground water sampling program which is reflective of seasonal variations at the site and include no less than four monitoring rounds per annum; and</li> <li>b) Monitoring of the following quality indicators, as a minimum, for both surface water (SW) and groundwater (GW) monitoring: <ul style="list-style-type: none"> <li>Physicochemical <ol style="list-style-type: none"> <li>i. pH (in situ),</li> <li>ii. electrical conductivity (in situ),</li> <li>iii. turbidity (SW only),</li> <li>iv. temperature (in situ),</li> <li>v. Dissolved oxygen (mg O<sub>2</sub>/L and % sat.) (in situ - SW only),</li> <li>vi. Chemical Oxygen Demand,</li> <li>vii. Total Organic Carbon,</li> </ol> </li> <li>Nutrients <ol style="list-style-type: none"> <li>i. Total Ammonia (as N),</li> <li>ii. Total Phosphorus (as P),</li> <li>iii. NO<sub>x</sub> (Nitrate + Nitrite) (as N) ,</li> </ol> </li> <li>Major Cations and Anions <ol style="list-style-type: none"> <li>i. Bicarbonate,</li> <li>ii. Calcium,</li> <li>iii. Carbonate,</li> <li>iv. Chloride,</li> <li>v. Magnesium,</li> <li>vi. Potassium,</li> <li>vii. Sodium,</li> <li>viii. Sulfate,</li> </ol> </li> <li>Metals and Metalloids* <ol style="list-style-type: none"> <li>ix. Aluminium,</li> <li>x. Cadmium,</li> <li>xi. Chromium,</li> <li>xii. Copper,</li> <li>xiii. Iron,</li> <li>xiv. Lead,</li> <li>xv. Manganese,</li> <li>xvi. Mercury,</li> <li>xvii. Nickel,</li> <li>xviii. Zinc,</li> </ol> </li> <li>Other <ol style="list-style-type: none"> <li>xix. Depth (SW- m; GW - <b>mbgl</b>),</li> <li>xx. Velocity (m/s - SW only), and</li> <li>xxi. General observations;** and</li> </ol> </li> </ul> </li> </ol> </li> </ol> |
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|                              | <p>*To be determined as dissolved (filtered) concentrations where the aquatic ecosystem EV applies, and as total (unfiltered) concentrations where the livestock watering or irrigation EV applies.</p> <p>**General observations of receiving water upstream and downstream including presence absence of any slicks, algal blooms, discolouration, and indications of leachate such as iron staining.</p> <p>c) Suitable test sites within the receiving waters that are potentially impacted by the <b>release</b>, including a sufficient number of groundwater monitoring bores installed not further from the <b>landfill unit</b> than the boundary of the landfill facility; and</p> <p>d) How the condition of, and impacts to, EVs will be assessed at test sites using WQOs, guideline values and locally-derived or default trigger values with control or reference site data based on appropriate and valid assessment protocols from relevant guideline documents; and</p> <p>e) Daily rainfall as recorded at the nearest rainfall measuring station that reports data to the Commonwealth Bureau of Meteorology or by a rainfall gauge located at the approved place; and</p> <p>f) Leachate quality monitoring.</p> |
| <b>WT11</b>                  | The receiving environment monitoring program design, and changes to the design, must be submitted to the <b>administering authority</b> for comment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>WT12</b>                  | A report detailing the results and outcomes of the receiving environment monitoring program must be compiled each year by 30 June, and provided to the <b>administering authority</b> upon request.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bunding</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>WT13</b>                  | All liquid fuel and chemical tank storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>WT14</b>                  | All chemical and fuel drum storage must be bunded so that the capacity of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>WT15</b>                  | All bunding must be constructed of materials which are impervious to the materials stored.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>WT16</b>                  | All bunding must be roofed where practicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>WT17</b>                  | Where it is impractical to completely roof a bunded area, <b>you</b> must ensure that stormwater captured within the bund is free from contaminants prior to <b>release</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>WT18</b>                  | For new bunding installed following the issue of this environmental authority a collection sump must be provided in the floor of the bunding to facilitate the removal of liquids. The bund floor must be graded so that the fall is towards the collection sump.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>WT19</b>                  | All bunding must be maintained free of gaps or cracks.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Liner system</b>          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>WT20</b>                  | <p>All <b>landfill cells</b> created after 14 September 2014 must have a liner system installed and maintained to:</p> <ol style="list-style-type: none"> <li>1. prevent <b>release</b> of contaminants from the <b>landfill cell</b> to land or <b>waters</b>; and</li> <li>2. prevent subsurface migration of landfill gas from the <b>landfill cell</b>.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Agency interest: Land</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Condition number</b>      | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Capping</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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| <b>L1</b>                     | <p>When the deposition of waste to the <b>landfill unit</b> ceases, a final capping system to the <b>landfill unit</b> must be designed by an <b>appropriately qualified person</b> and installed to minimise:</p> <ol style="list-style-type: none"> <li>1. infiltration of water into the <b>landfill unit</b> and water ponding on the surface; and</li> <li>2. the likelihood of any erosion occurring to either the final capping system or the landfilled materials.</li> </ol> <p>A final capping system is not required where the deposition of waste to a <b>landfill unit</b> ceases temporarily for the purpose of using an alternative working face.</p>                                                                                                                                                                           |
| <b>Post Closure Care</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>L2</b>                     | <p>Following cessation of deposition of waste in the <b>landfill unit</b>, post-closure care of the <b>landfill unit</b> must be conducted for either:</p> <ol style="list-style-type: none"> <li>1. a period of 30 years; or</li> <li>2. a time agreed to by the <b>administering authority</b>, on the basis of correct information provided from <b>you</b>, that the <b>landfill unit</b> and surrounding site are stable and that no <b>release</b> of waste materials, <b>leachate</b>, landfill gas or other contaminants that may cause environmental harm is likely.</li> </ol>                                                                                                                                                                                                                                                       |
| <b>L3</b>                     | <p>The program of post-closure care implemented must be effective in preventing and/or minimising the likelihood of environmental harm being caused. The program must include measures to:</p> <ol style="list-style-type: none"> <li>1. maintain the structural integrity and effectiveness of the final capping system;</li> <li>2. maintain and operate the <b>leachate</b> collection system;</li> <li>3. maintain the <b>groundwater monitoring system</b> and monitor quality of groundwater at a frequency sufficient to detect any <b>release</b> of contaminants to groundwater;</li> <li>4. maintain and operate the landfill gas monitoring system; and</li> <li>5. maintain and operate the landfill gas collection system.</li> </ol>                                                                                             |
| <b>L4</b>                     | <p>A site management plan pursuant to Chapter 7, Part 8, Division 5 of the <i>Environmental Protection Act 1994</i> must be developed and provided to the <b>administering authority</b> at least 12 months before the expected final receipt of waste in the <b>landfill unit</b>. The site management plan must include, but is not to be limited to, the future land use and actions intended to taken for compliance with the closure and post-closure care requirements of this approval.</p>                                                                                                                                                                                                                                                                                                                                             |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>W1</b>                     | <p>The following waste streams must not be permitted to be placed at the <b>landfill facility</b> at any time:</p> <ol style="list-style-type: none"> <li>1. liquid or semi liquid waste other than liquid or semi liquid waste which has been produced in carrying out the ERA;</li> <li>2. hot ash;</li> <li>3. material that is smouldering or aflame;</li> <li>4. material containing a substance which is ignitable, corrosive, reactive or toxic (other than materials containing a toxic substance from domestic premises) unless this material is to be deposited into a dedicated monocell approved in writing by the <b>administering authority</b>;</li> <li>5. all radioactive wastes, unless otherwise approved under the <i>Radiation Safety Act 1999</i> or approved contaminated soil;</li> <li>6. an explosive; or</li> </ol> |

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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|                                                        | 7. ammunition, other than ammunition that no longer contains explosives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| W2                                                     | Deposited waste must be covered as soon as practicable to prevent exposure of waste and prevent issues arising from vectors and pest species.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| W3                                                     | Excepting combustion of landfill gas, waste must not be burnt.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Design and Operating Criteria - Waste Transfer Station |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| W4                                                     | You must take all practicable and reasonable measures to prevent deposition of any regulated waste into any waste container used at the waste transfer station.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| W5                                                     | <p>Waste and any contaminated soil disposed of at the premises to which this environmental authority relates:</p> <ol style="list-style-type: none"><li>1. may be accepted subject to effectively implementing risk assessment practices and procedures for contaminant testing that ensure that the material accepted complies with the maximum contaminant levels and the allowable leaching contaminant levels prescribed in Table 4—Maximum contaminant levels in soils and Table 5—Allowable leaching contaminant levels respectively; and</li><li>2. if the contaminated soil is used as coverage material, contaminant levels must not exceed the maximum concentration limits in Table 6, must not cause contaminated stormwater <b>release</b> and must not include any soil with contaminant levels that exceed maximum contaminant levels in soils in Table 4 for monocyclic aromatic hydrocarbons, polycyclic aromatic hydrocarbons, chlorinated hydrocarbons, pesticides, or petroleum hydrocarbons.</li></ol> |

| Table 4—Maximum contaminant levels in soils   |                                                            |                                                              |
|-----------------------------------------------|------------------------------------------------------------|--------------------------------------------------------------|
| Contaminant                                   | Maximum contaminant level for clay lined landfills (mg/kg) | Maximum contaminant level for double lined landfills (mg/kg) |
| <i>Monocyclic aromatic hydrocarbons (MAH)</i> |                                                            |                                                              |
| Benzene                                       | 10                                                         | 20                                                           |
| Ethyl Benzene                                 | 500                                                        | 1,000                                                        |
| Toluene                                       | 300                                                        | 600                                                          |
| Xylene                                        | 250                                                        | 500                                                          |
| Total MAH                                     | 500                                                        | 1,000                                                        |
| <i>Polycyclic aromatic hydrocarbons (PAH)</i> |                                                            |                                                              |
| Total PAH                                     | 500                                                        | 1,000                                                        |
| <i>Phenolic contaminants</i>                  |                                                            |                                                              |
| <i>Non halogenated compounds:</i>             |                                                            |                                                              |
| Phenol                                        | 100                                                        | 250                                                          |
| m-cresol                                      | 250                                                        | 500                                                          |
| o-cresol                                      | 250                                                        | 500                                                          |
| p-cresol                                      |                                                            |                                                              |
| Total non-halogenated phenol                  | 250                                                        | 500                                                          |
| <i>Halogenated phenol</i>                     |                                                            |                                                              |
| Chlorophenol                                  | 1                                                          | 5                                                            |
| Pentachlorophenol                             | 5                                                          | 20                                                           |
| Trichlorophenol                               | 5                                                          | 20                                                           |
| Total halogenated phenol                      | 5                                                          | 20                                                           |
| <i>Chlorinated hydrocarbons</i>               |                                                            |                                                              |
| <i>Chlorinated aliphatic compounds:</i>       |                                                            |                                                              |
| Carbon tetrachloride                          | 5                                                          | 10                                                           |
| 1,2 Dichloroethane                            | 10                                                         | 20                                                           |

|                                                      |        |        |
|------------------------------------------------------|--------|--------|
| 1,1 Dichloroethene                                   | 1      | 1      |
| Tetrachloroethene                                    | 10     | 20     |
| Trichloroethene                                      | 25     | 25     |
| Total chlorinated aliphatic compounds                | 50     | 50     |
| <i>Chlorinated aromatic compounds:</i>               |        |        |
| Chlorobenzene                                        | 100    | 200    |
| Hexachlorobenzene                                    | 1      | 1      |
| Total chlorinated aromatic compounds                 | 100    | 200    |
| Non scheduled solid polychlorinated biphenyls (PCBs) | 2      | 50     |
| <i>Pesticides</i>                                    |        |        |
| Total organochlorine                                 | 5      | 50     |
| Total herbicides                                     | 25     | 50     |
| Total carbamates                                     | 25     | 50     |
| Total organophosphorus                               | 10     | 50     |
| <i>Petroleum hydrocarbons</i>                        |        |        |
| Total petroleum hydrocarbons (C6-C9)                 | 500    | 1,000  |
| Total petroleum hydrocarbons (C10-C14)               | 5,000  | 10,000 |
| Total petroleum hydrocarbons (C15-C28)               | 10,000 | 50,000 |
| Total petroleum hydrocarbons (C29-C36)               | 10,000 | 50,000 |
| <i>Non specific contaminants</i>                     |        |        |
| Biochemical oxygen demand                            | 20,000 | 20,000 |
| Total organic carbon                                 | 10,000 | 10,000 |
| Petroleum hydrocarbons                               | 25     | 50     |
| <i>Metals/non-metals</i>                             |        |        |
| Antimony                                             | 0.5    | 5      |
| Arsenic                                              | 0.5    | 5      |
| Barium                                               | 10     | 100    |
| Cadmium                                              | 0.05   | 0.5    |
| Chromium                                             | 0.5    | 5      |
| Cobalt                                               | 0.5    | 5      |
| Copper                                               | 10     | 100    |
| Lead                                                 | 0.5    | 5      |
| Mercury                                              | 0.01   | 0.1    |
| Molybdenum                                           | 0.1    | 5      |
| Nickel                                               | 0.5    | 5      |
| Selenium                                             | 0.1    | 1      |
| Silver                                               | 0.5    | 5      |
| Thallium                                             | 0.1    | 1      |
| Tin                                                  | 0.3    | 3      |
| Vanadium                                             | 0.5    | 5      |
| Zinc                                                 | 50     | 500    |
| <i>Inorganic anions</i>                              |        |        |
| Bromide                                              | 5      | 50     |
| Chloride                                             | 6,000  | 6,000  |

|  |                                              |       |       |
|--|----------------------------------------------|-------|-------|
|  | Cyanide (total)                              | 1     | 5     |
|  | Fluoride                                     | 15    | 150   |
|  | Nitrate                                      | 100   | 1,000 |
|  | Sulphate                                     | 2,500 | 4,000 |
|  | <i>Monocyclic aromatic hydrocarbon (MAH)</i> |       |       |
|  | Benzene                                      | 0.1   | 1     |
|  | Ethyl benzene                                | 5     | 50    |
|  | Toluene                                      | 3     | 30    |
|  | Xylenes                                      | 2     | 20    |
|  | Total MAH                                    | 5     | 50    |
|  | <i>Polycyclic aromatic hydrocarbon (PAH)</i> |       |       |
|  | Anthracene                                   | 0.07  | 0.7   |
|  | Benzo (a) anthracene                         | 0.005 | 0.05  |
|  | Benzo (c) phenanthrene                       | 0.005 | 0.05  |
|  | Benzo (a) pyrene                             | 0.002 | 0.02  |
|  | Benzo (b) fluoranthene                       | 0.005 | 0.05  |
|  | Benzo (k) fluoranthene                       | 0.005 | 0.05  |
|  | Chrysene                                     | 0.01  | 0.1   |
|  | Dibenzo (a,h) anthracene                     | 0.002 | 0.02  |
|  | Dibenzo (a,h) pyrene                         | 0.01  | 0.1   |
|  | Dimethylbenzo (a) anthracene                 | 0.005 | 0.05  |
|  | Fluoranthene                                 | 0.02  | 0.2   |
|  | Indeno (1,2,3-cd) pyrene                     | 0.01  | 0.1   |
|  | Naphthalene                                  | 0.07  | 0.7   |
|  | Phenanthrene                                 | 0.01  | 0.1   |
|  | Pyrene                                       | 0.07  | 0.7   |
|  | Total PAH                                    | 0.1   | 1     |
|  | <i>Phenolic contaminants</i>                 |       |       |
|  | <i>Non halogenated compounds:</i>            |       |       |
|  | Phenol                                       | 1     | 10    |
|  | m-cresol                                     | 2     | 20    |
|  | c-cresol                                     | 2     | 20    |
|  | p-cresol                                     | 2     | 20    |
|  | <i>Halogenated phenols</i>                   |       |       |
|  | Chlorophenol                                 | 0.01  | 0.1   |
|  | Pentachlorophenol                            | 0.1   | 1     |
|  | Trichlorophenol                              | 0.1   | 1     |
|  | <i>Chlorinated hydrocarbons</i>              |       |       |
|  | <i>Chlorinated aliphatic compounds</i>       |       |       |
|  | Carbon tetrachloride                         | 0.03  | 0.3   |
|  | 1,2 Dichloroethane                           | 0.1   | 1     |
|  | 1,1 Dichloroethene                           | 0.003 | 0.03  |
|  | Tetrachloroethene                            | 0.1   | 1     |
|  | Trichloroethene                              | 0.3   | 3     |
|  | <i>Chlorinated aromatic compounds</i>        |       |       |
|  | Chlorobenzene (total)                        | 1     | 10    |
|  | Hexachlorobenzene                            | 0.002 | 0.02  |
|  | <i>Pesticides</i>                            |       |       |
|  | <i>Organochlorines</i>                       |       |       |
|  | Aldrin                                       | 0.001 | 0.01  |
|  | Chlordane                                    | 0.006 | 0.06  |
|  | Chlorpyrifos                                 | 0.01  | 0.03  |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                 |        |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------|
|  | Dieldrin                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.001                                                                           | 0.01   |
|  | DDT                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.003                                                                           | 0.03   |
|  | Endrin                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.001                                                                           | 0.01   |
|  | Heptachlor                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.003                                                                           | 0.03   |
|  | Lindane                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.1                                                                             | 1      |
|  | Methoxychlor                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.1                                                                             | 1      |
|  | Toxaphene                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.005                                                                           | 0.05   |
|  | <i>Herbicides</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                 |        |
|  | 2,4-D                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.1                                                                             | 1      |
|  | 2,4-DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                                                             | 2      |
|  | 2,4,5-T                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.002                                                                           | 0.02   |
|  | MCPA                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.2                                                                             | 2      |
|  | <i>Carbamates:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                 |        |
|  | Carbaryl                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.06                                                                            | 0.6    |
|  | Carbofuran                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.03                                                                            | 0.3    |
|  | <i>Organophosphorus</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                 |        |
|  | Diazinon                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.01                                                                            | 0.1    |
|  | Methyl Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.006                                                                           | 0.06   |
|  | Parathion                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.03                                                                            | 0.3    |
|  | <i>Triazines:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                 |        |
|  | Atrazine                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.01                                                                            | 0.03   |
|  | Simazine                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.01                                                                            | 0.03   |
|  | <i>Fluorinated organic compounds</i>                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                 |        |
|  | Total fluorinated organic compounds (if leachate reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0003                                                                          | 0.0003 |
|  | Total fluorinated organic compounds (if leachate not reused on or off-site)                                                                                                                                                                                                                                                                                                                                                                                                 | 0.05                                                                            | 0.05   |
|  | For any waste or soil contaminated by radioactive material, the gross alpha and gross beta activity concentration in the Toxicity Characteristic Leaching Procedure ( <b>TCLP</b> ) extracts from the material are no more than 100 times the concentrations for the screening of gross alpha and gross beta activity concentrations specified in the most recent edition of the National Health and Medical Research Council (NHMRC) Australian Drinking Water Guidelines. |                                                                                 |        |
|  | *Allowable leaching levels to be determined using the <b>TCLP</b> procedure mentioned in United States Environmental Protection Agency (EPA), Washington DC (2008) "Test methods for evaluating solid waste, physical/chemical methods" Document number SW 846. 3rd Edition or more recent editions or supplement to that procedure as they become available.                                                                                                               |                                                                                 |        |
|  | <b>Table 6—Maximum total contaminant levels in soils used as cover material (note: this material is not suitable for final capping)</b>                                                                                                                                                                                                                                                                                                                                     |                                                                                 |        |
|  | <b>Contaminant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Maximum total contaminant levels in soils used as cover material (mg/kg)</b> |        |
|  | Arsenic (total)                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 200                                                                             |        |
|  | Beryllium                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 40                                                                              |        |
|  | Cadmium                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 40                                                                              |        |
|  | Chromium (III)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 240,000                                                                         |        |

|  |                                     |                                |
|--|-------------------------------------|--------------------------------|
|  | Chromium (VI)                       | 200                            |
|  | Copper                              | 2,000                          |
|  | Lead                                | 600                            |
|  | Manganese                           | 3,000                          |
|  | Mercury (inorganic)                 | 30                             |
|  | Methyl mercury                      | 20                             |
|  | Nickel                              | 600                            |
|  | Zinc                                | 14,000                         |
|  | PFOS (Perfluoro-octane sulfonate)   | 6                              |
|  | PFOA (Perfluoro-octanoic acid)      | 16                             |
|  | Total fluorinated organic compounds | 10 (not including PFOS & PFOA) |

## Definitions

Key terms and/or phrases used in this document are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of Environment and Heritage Protection or its successor or predecessors.

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

**Background** means noise, measured in the absence of the noise under investigation, as  $L_{A90,T}$  being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Boundary** means within one metre of the cadastral boundary of the site.

**Clay lined** means a landfill lined with compacted clay at least 600 mm thick achieving a maximum permeability of  $1 \times 10^{-9}$  metres per second or alternate such as an engineered geosynthetic agreed in writing as equivalent in performance by the **administering authority**.

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Double lined** means a landfill lined with compacted clay at least 600mm thick achieving a maximum permeability of  $1 \times 10^{-9}$  metres per second overlain with 1.5mm **HDPE** synthetic liner or alternate double liner system agreed in writing as equivalent in performance by the **administering authority**.

**General waste** means waste other than regulated waste.

**Groundwater monitoring system** means a system of groundwater monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of groundwater in the uppermost aquifer where the location of the groundwater monitoring devices is such that comparisons of groundwater quality and groundwater level can be made between groundwater flowing from beneath the site (down-gradient flow) of the **activity** and groundwater flowing towards the site of the **activity** (up-gradient flow).

**HDPE** means high density polyethylene.

**"impulse adjustment"** if impulsiveness is a significant characteristic of the sound within a measurement time interval, an adjustment shall be applied. If impulsive components are clearly audible, the adjustment will be 5 dB (A). If the components are only just detectable, an adjustment of 2 dB (A) will be appropriate.

**Intrusive noise** means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration:

1. is clearly audible to, or can be felt by, an individual; and

2. annoys the individual; and
3. in determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 - 1997 Acoustics — Description and Measurement of Environmental Noise Part 2 — Application to Specific Situations.

**L<sub>A10, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

**L<sub>A1, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

**L<sub>A, max adj, T</sub>** means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

**Landfill cell** means a discrete area of land or an excavation that receives solid waste, which is separated from other areas/excavations within the larger waste disposal area/excavation.

**Landfill unit** means a discrete area of land or an excavation that receives solid waste, i.e. a collection of landfill cells.

**Landfill facility** means land and structures at the site approved used for the disposal of solid waste.

**Leachate** means a **liquid** that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the site that contains soluble, suspended or miscible contaminants likely to have been derived from the said material.

**Liquid** means any substance that:

1. has an angle of repose of less than five degrees; or
2. becomes free flowing at or below 60 degrees Celsius or when it is transported; or
3. is not generally capable of being picked up by a spade or shovel.

**mbgl** means metres below ground level

**Measures** has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

**NATA** means National Association of Testing Authorities.

**Noxious** means harmful or injurious to health or physical well-being.

**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

**Prescribed contaminants** means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

**Records** include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

**Release [of a contaminant into the environment]** means to:

1. deposit, discharge, emit or disturb the contaminant; and
2. cause or allow the contaminant to be deposited, discharged, emitted **or disturbed**; and
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed; and
4. allow the contaminant to escape; and
5. fail to prevent the contaminant from escaping.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public thoroughfare, park or gardens; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

**TCLP** means a toxicity characteristic leaching procedure.

**Toxic material** means:

1. cytotoxic wastes;
2. drugs and poisons as cited in the Standards for Uniform Scheduling of Drugs and Poisons (Schedules 8 and 9 drugs as per the Poisons (Health and Drugs) Regulation 1996); and
3. any other material that:
  - a. has contaminant concentrations in the waste exceeding the allowable levels in Table 4; or
  - b. has leaching contaminant levels in the waste when measured in accordance with toxicity characteristic leaching procedure (TCLP), exceeding the concentrations prescribed in Table 5.

**24 hour storm event with an average recurrence interval of 1 in 10 years** means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 10 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 10 years, identifies a rainfall intensity of 8.2mm/hour. The rainfall depth for this event is therefore 24 hour x 8.2mm/hour = 196.8mm.*

**Waste operations area** means the following areas:

1. waste receiving,
2. sorting,
3. treating,
4. recycling, or
5. disposal.

**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

**You** means the holder of the environmental authority.

Appendix A – Release points

- Key
- Development boundary
  - Discharge location
  - Drain alignment



END OF ENVIRONMENTAL AUTHORITY

**Appendix C.**

**LMS Energy Gas Flare Specification Sheet**

The LMS Gas Flare provides Australia's most proven flare for the clean combustion of landfill biogas. LMS have engineered this technology by drawing on more than 35 years of biogas combustion experience. LMS flares have been purpose built for the landfill environment and their performance in terms of total carbon abated from Australian landfills is unmatched.

With a fleet of more than 100 LMS Gas Flares, they are proven for continuous reliable operation over many years and all environments. As the manufacturer LMS maintains a full inventory spare parts, such that in the unlikely event of a system failure, any service part that is required will be immediately available. This is backed by our local service capacity, with experienced and appropriately qualified service technicians based around Australia.

The LMS Gas Flare has the capability for high destruction efficiencies and a low noise to ensure compliance with environmental regulations.

These compact flares are designed for rapid deployment and are suitable for both mobile and permanent installations on natural ground or capped landfill.

## Technology

The standard LMS Gas Flares are equipped to operate remotely and can be monitored through a user-friendly PLC interface, providing continuous flame detection linked to advanced burner control hardware with automated dial out alarms.

## Environment

Temperature maintenance and control of flue gas retention time is vital to ensure efficient destruction of pollutants. This is enhanced by multiple burner configurations, control of primary and secondary air, and thermal insulation within the combustion chamber that also reduces audible noise.

## Safety

Anti-flash back considerations and liquid collection are required to ensure a safe and reliable system. The gas supply line is fitted with a slam shut solenoid valve and an in line flame arrestor. Constant flame fail detection, incorporating system shut down and isolation, safeguard against any unburnt gases emitting to the atmosphere.



### CORPORATE HEAD OFFICE

118 Greenhill Rd  
 Unley, South Australia 5061  
 T (08) 8291 9000

199 Churchill Road  
 Prospect, South Australia 5082  
 T (08) 8291 9000

25 Blue Rock Drive  
 Yatala, Queensland 4207  
 T (07) 2899 7800

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL</b>              | LMS Standard Landfill Biogas Flare                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>FLOW CAPACITY</b>      | Multi Stage – 50m <sup>3</sup> /hour – 1,000m <sup>3</sup> /hour (20:1 turndown)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>COMPLIANCE</b>         | Clean Energy Regulator (carbon credit generation)<br>AS/NZS 5601<br>AS 3814 (Type B Gas Device)<br>AS60079 IECEx (Hazardous zoning & electrical equipment)<br>AS/NZS 3000:2018 (wiring)<br>EPA (>98% destruction efficiency)                                                                                                                                                                                                                                                                           |
| <b>COMBUSTION</b>         | Retention inspirators<br>Combustible methane range 25% to 95% by volume<br>Maximum energy combustion 19,000MJ/hour<br>Combustion Temperature >760 C                                                                                                                                                                                                                                                                                                                                                    |
| <b>FLUE STACK</b>         | Insulated stainless steel (7 metres)                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>TRANSPORT</b>          | Modularised on a 6 m shipping container platform                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>INSTALLATION</b>       | Less than 1 Day                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MONITORING</b>         | Continuous with automated alarms and shut down<br>Remote access for data and systems control and restarting<br>Automated data to cloud                                                                                                                                                                                                                                                                                                                                                                 |
| <b>GAS FEED</b>           | Centrifugal blower incorporating variable speed drive control<br>1,000m <sup>3</sup> /hour maximum delivery (dependent gas quality and volume available)<br>Maximum suction pressure, minimum discharge pressure combined 15kPa<br>Methane analyser with built in alarms<br>In line gas flow meter                                                                                                                                                                                                     |
| <b>FILTRATION</b>         | Stainless steel liquid knock out pot fitted with stainless steel demister pads and pre-gas entry filter.                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>POWER SUPPLY</b>       | 415v3 phase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SAFETY ENGINEERING</b> | Hazardous Area Dossier<br>Automated slam shut and manual isolation valves<br>Flame detection incorporating auto shut down<br>Remote PLC automation<br>Flame arrestor<br>Schedule 10S stainless steel pipe work<br>Gas isolation valves<br>In line pressure transmitters and test points<br>Condensate level indicator<br>Flash back temperature sensor<br>Self-contained and lockable<br>Filter in intake manifold<br>Lockable electrical control panel/cabinet<br>Refractory lined combustion chamber |
| <b>DIMENSIONS</b>         | Length – 6 metres<br>Width – 2.4 metres<br>Total height at stack – 8 metres                                                                                                                                                                                                                                                                                                                                                                                                                            |



**Appendix D.**

**LMS Energy Gas Flare Details Email**

## Kaine Pritchard

---

**From:** Greg Nield <Greg.Nield@lms.com.au>  
**Sent:** Tuesday, 5 November 2024 11:03 AM  
**To:** Michelle Walker; Kaine Pritchard  
**Cc:** Dawson Courneya  
**Subject:** RE: 2024\_10 Caloundra Landfill EA Compliance Audit - Request for Information  
**Attachments:** Standard LMS Energy Flare Spec Sheet.pdf

Hi Michelle,

I have attached a spec sheet, I think it should tick off what you were after confirming the licence conditions – except for the temperature in Condition P7-A20. LMS flares do not run at 980 deg C, We operate at a lower temperature, but have a higher retention time (ie burn time) that still lets us achieve the required combustion. I did a bit of a review of the relevant guidelines that contain temperature clauses that I am aware of (see below) – Also temperature flare conditions are not mentioned within any of our other QLD sites that I know of.

| Reference                                                                                                           | Section             | Combustion Temperature °C |
|---------------------------------------------------------------------------------------------------------------------|---------------------|---------------------------|
| <a href="#">Protection of the Environment Operations (Clean Air) Regulation 2021 (NSW)</a>                          | Clause 52(2)        | 760                       |
| <a href="#">Carbon Credits (Carbon Farming Initiative—Landfill Gas) Methodology Determination 2015 (The Method)</a> | Division 2, Part 36 | 500                       |
| <a href="#">NZ Resource Management (National Environmental Standards for Air Quality) Regulations 2004</a>          | Clause 27           | 750                       |

There is a chance that when this licence originally got set up there was a mistake made – referencing the NSW regs. See extract below. This is the only reference I have found of 980 Deg C

## 52 Combustion temperature

- (1) An afterburner, other than one that employs a catalytic control system, must be operated in such a way that the temperature for the combustion of an air impurity by the afterburner is—
  - (a) more than 980°C if the air impurity originates from material containing any principal toxic air pollutant, or
  - (b) more than 760°C in any other case.
- (2) An enclosed ground-level flare for the treatment of landfill gas must be operated in such a way that the temperature for the combustion of landfill gas by the flare is more than 760°C.
- (3) A reference in this clause to the temperature for the combustion of an air impurity, including landfill gas, is a reference to that temperature as determined in accordance with TM-2, using a 1 hour rolling averaging period.

As a bit of background, our Flares are modular in design, therefore are basically the same at every site. When they are installed go through a commissioning process. Let me know if there is anything else

Cheers  
Greg N

**GREG NIELD** | Supervisor - Environmental  
**LMS ENERGY Pty Ltd**

M: 0484 122 676  
E: [greg.nield@lms.com.au](mailto:greg.nield@lms.com.au) | W: [lms.com.au](http://lms.com.au)  
199 Churchill Rd Prospect SA 5082  
Kaurna Country

Leaders in Methane Abatement and Bioenergy



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**Appendix E.**

**Letter from Department of Environment and Heritage dated 27 June 2016 'Finalisation of Transitional Environmental Program (TEP) MAN13560 Cut-off wall construction and associated infrastructure; and TEP MAN17400 HES basin construction'.**



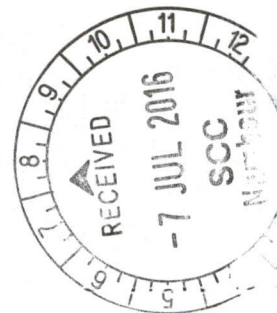
Department of  
**Environment and  
Heritage Protection**

Ref MAN13560/MAN17400/101-0005535/EPPR00978713

27 June 2016

Sunshine Coast Regional Council  
Locked Bag 72  
Sunshine Coast MC QLD 4560

Attention: John Hogg



**Re: Finalisation of Transitional Environmental Program (TEP) MAN13560 Cut-off wall construction and associated infrastructure; and TEP MAN17400 HES basin construction.**

Dear Mr Hogg

**TEP 13560 – Cut-off wall construction and associated infrastructure**

I refer to the TEP 13560 approved by the administering authority on 6 September 2011, amended and approved on 18 October 2012, under section 340 of the *Environmental Protection Act 1994* (the Act). The administering authority is the Chief Executive of the Department of Environment and Heritage Protection (the department).

The TEP was approved in respect to the activities of Sunshine Coast Council at 171 Pierce Avenue, Bells Creek, for the purpose of securing compliance with conditions C19 and C20 of environmental authority (EA) EPPR00978713 (formerly SPDE03088111).

This letter serves to inform you that the department considers the TEP to have been finalised, and that upon completion of the program the department has determined that Sunshine Coast Council has satisfied all requirements.

**TEP 17400 - HES basin construction**

I refer to the TEP 17400 approved by the administering authority on 7 November 2013, under section 340 of the Act.

The TEP was approved in respect to the activities of Sunshine Coast Council at 171 Pierce Avenue, Bells Creek, for the purpose of securing compliance with conditions C2, C3, C4, C14 and C18 of EA EPPR00978713.

This letter serves to inform you that the department considers the TEP to have been finalised, and that upon completion of the program the department has determined that Sunshine Coast Council has satisfied all requirements.

The department wishes to remind you of your ongoing obligations to ensure compliance with all requirements of the Act including the conditions of your EA EPPR00978713.

Recommendation for Environmental Authority amendment

The installation of the High Efficiency Sediment (HES) basins, under TEP MAN17400 has created a non-compliance due to misalignment between the standard specified in EA condition CC3 and the design of the new technology. HES basins do not meet the technical requirements of condition CC3 as they capture and treat in real time as opposed treating the equivalent volume of a 24 hour storm event with a recurrence interval of 1 in 10 years.

In addition, condition CC4 requires submission of a TEP to bring the site into compliance with CC3. This requirement has been met with the completion of TEP MAN17400. It is therefore recommended that removal of this condition from the EA be sought.

In order to advance an amendment, it is recommended that you contact Permit and Licence Management on 1300 130 372 or via email at [palm@ehp.qld.gov.au](mailto:palm@ehp.qld.gov.au).

The department looks forward to your continued co-operation in the environmental management of the site. Should you have any further enquiries, please contact Melanie Scanes of the department on telephone 5459 6154.

Yours sincerely



Tony Baker

**A/Manager (Compliance)**

Department of Environment and Heritage Protection