



Licence

Environmental Protection Act 1986, Part V

Licensee: Mindarie Regional Council

Licence: L6963/1997/14

Registered office: 1700 Marmion Avenue
MINDARIE WA 6030

Premises address: Tamala Park Waste Management Facility
1700 Marmion Avenue
CLARKSON WA 6030
Being part of Lot 9020 on Plan 408820 as depicted in Schedule 1.

Issue date: Wednesday, 15 May 2013

Commencement date: Wednesday, 26 June 2013

Expiry date: Tuesday, 25 June 2030

Prescribed premises category

Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
12	Screening, etc. of material: premises (other than premises within category 5 or 8) on which material extracted from the ground is screened, washed, crushed, ground, milled, sized or separated.	50,000 tonnes or more per year	1,500,000 tonnes per annual period
57	Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored.	100 tyres or more	500 tyres (at any one time)
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use	500 tonnes or more per year	15,000 tonnes per annual period
64	Class II or III putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	20 tonnes or more per year	350,000 tonnes per annual period
77	Concrete batching or cement products manufacturing: premises on which cement products or concrete are manufactured for use at places or premises other than those premises.	100 tonnes or more per year	30,000 tonnes per annual period



Conditions

This Licence is subject to the conditions set out in the attached pages.

Date signed 1 July 2016

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Alan Kietzmann

Officer delegated under section 20
of the *Environmental Protection Act 1986*



Contents

Licence	1
Contents	3
Introduction	3
Licence conditions	6
1 General	6
2 Monitoring	12
3 Information	13
Schedule 1: Maps	16
Schedule 2: Reporting & notification forms	19

Introduction

This Introduction is not part of the Licence conditions.

DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

Licence requirements

This Licence is issued under Part V of the Act. Conditions contained within the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link:

<http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.



Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.

Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and Licence summary

The Mindarie Regional Council (MRC), Tamala Park Waste Management Facility (TPWMF) is one of the largest putrescible landfills (Category 64) in the Perth metropolitan area, serving a population of approximately 700,000 persons. The Facility is located 30 kilometres north of the Perth central business district, 10 kilometres (km) from Wanneroo town site, 3 km from Burns Beach to the south-west, and 3 km from Quinns Rocks and Mindarie Keys to the north-west.

DER has initiated this amendment to the licence to update the legal land description on the licence, amend the licence expiry date in accordance with the notice of Amendment of Licence Expiry Dates dated 29 April 2016 and implement administrative changes.

MRC has operated the Facility since February 1991. The Facility operates by the controlled disposal of municipal refuse into a series of landfill stages covering an approximate area of 37 hectares of which 11 hectares are now closed. In addition various recycling services are provided at the facility (Category 62 – Solid waste depot).

Material excavated during the construction of landfill cells that is suitable for forming part of the landfill cells final cap is stored in stockpiles on site. This prevents the need for transporting these materials on and off-site or the need for procurement of cover materials during site closure. Excavated material generally falls into two categories: (a) sand which following screening is used to provide a protection layer below and above any impermeable membranes used in the construction of the cap; and (b) limestone (may have sand content) which following crushing to <100mm may be used either as a temporary capping material where there is no impermeable membrane or above the sandy impermeable membrane protection layer used in the construction of a permanent final cap. These crushing and screening activities are covered by Category 12 (Screening, etc. of material) on the licence.

A commercial concrete batching or cement products manufacturing plant is also operated at the premises, covered by Category 77 (concrete batching or cement products manufacturing). DER understands that fabricated limestone blocks are produced amongst other products.

The geology of the site consists predominantly of sand of the Quindalup Dune system overlying low grade sand and limestone of the Tamala Limestone formation. An unconfined aquifer system is present within the sand and limestone of the superficial formations that underlie the site. An extensive network of groundwater monitoring bores are located up-gradient, down-gradient and to the north of the TPWMF. Groundwater elevation beneath the landfill varies seasonally across the site. Groundwater monitoring results from July and December 2014 indicates levels ranging from 0.35 metres (m) above AHD (Australian Height Datum) to 1.25 mAHD. The natural elevation of the site varies between 10 m and 50 mAHD. The general direction of groundwater flow within the superficial formation aquifer is inferred in west-southwest to westerly direction towards the ocean.

The nearest major user of groundwater from the superficial formation is the Water Corporation which, as part of the Coastal Groundwater Scheme, abstracts groundwater from the superficial aquifer via the Neerabup bore field, these abstraction bores are all located up-hydraulic gradient of the site to the north, north-east and south-east. Additional water has also been abstracted by



the nearby Catalina housing development which is located north of the premises; the water is used for dust suppression and for watering of public open spaces (CSIRO, February 2015¹). There are no known users of groundwater down-hydraulic gradient from the landfill.

The landfill site is located adjacent to a Priority 3 Public Drinking Water Source Protection Area. Priority 3 (P3) classification areas are defined to manage risk of pollution to the water source from catchment activities. Protection of P3 areas is mainly achieved through guided or regulated environmental (risk) management for land use activities. P3 areas are declared over land where water supply sources coexist with other land uses such as residential, commercial and light industrial development. Land uses considered to have significant pollution potential are nonetheless opposed or constrained. As the landfill is located outside the P3 area it is compatible (DoW has confirmed this).

There are no natural surface water bodies located on-site. The nearest permanent surface water bodies are the Indian Ocean, approximately 1.5 km to the west, and the Neerabup Lakes, approximately 3.5 km to the north-east.

The main potential emissions from the site relate to landfill leachate impacting underlying groundwater and the potential migration off-site through groundwater flow. Fugitive emissions in the form of odour, noise and dust may occur from site operations.

The licences and works approvals issued for the Premises since 30 June 2000 are:

Instrument log		
Instrument	Issued	Description
L6963/1997/5	30/06/2000	Licence re-issue
L6963/1997/6	30/06/2001	Licence re-issue
W3396/1997/1	18/07/2001	Construction of Stage 2 cells (13-22)
L6963/1997/7	30/06/2002	Licence re-issue
L6963/1997/8	30/06/2003	Licence re-issue
W3690/1997/1	26/08/2003	Construction of Stage 2A North cells (16-17 & 21-22) and Stage 2B North Cells (26-27 & 31-32)
L6963/1997/9	30/06/2004	Licence re-issue
L6963/1997/10	29/06/2005	Licence re-issue
L6963/1997/11	29/06/2006	Licence re-issue
L6963/1997/12	25/06/2007	Licence re-issue
L6963/1997/13	26/06/2008	Licence re-issue
W4502/2008/1	06/03/2009	Stage 1/2 liner tie in (lining the area of Stage 1; an area of old landfill that is currently unlined to allow waste to be placed over previously landfilled waste)
W4582/2009/1	17/12/2009	Stage 2 – Phase 3; installation of basal liner system and side slope liner above RL 9.6m and associated leachate collection infrastructure
W4658/2010/1	17/06/2010	Tarpomatic system for daily coverage of waste
W5397/2013/1	13/05/2013	Stage 2 – Phase 3; side slope liner (incremental side slope lifts)
L6963/1997/14	26/06/2013	Licence re-issue
L6963/1997/14	24/12/2015	Licence amendment to authorise acceptance and disposal of Class III coarse heavy residue waste and conversion to new licence format
L6963/1997/14	01/07/2016	DER initiated amendment to update premises address details and implement administrative changes

Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.



END OF INTRODUCTION

Licence conditions

1 General

1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'ACM' means asbestos containing material and has the meaning defined in the Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites, Western Australia, (DOH, 2009);

"Acceptance Criteria" has the meaning defined in Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009), published by the CEO and as amended from time to time; **'Act'** means the *Environmental Protection Act 1986*;

'AHD' means the Australian height datum;

'annual period' means the inclusive period from 1 January to 31 December;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.4' means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling – Guidance on sampling from lakes, natural and man-made*;

'AS/NZS 5667.11' means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

'asbestos' means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite and any mixture containing two or more of those;

'Assessment and management of contaminated sites guidelines' means the document titled "Assessment and management of contaminated sites Contaminated sites guidelines" published by the Chief Executive Officer of the Department of Environment Regulation as amended from time to time;

'averaging period' means the time over which a limit is measured or a monitoring result is obtained;



'**CEO**' means Chief Executive Officer of the Department of Environment Regulation;

'**CEO**' for the purpose of correspondence means;

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 33
CLOISTERS SQUARE WA 6850
Email: info@der.wa.gov.au

'**Clean Fill**' has the meaning defined in Landfill Definitions;

'**Clinical Waste**' has the meaning defined in Landfill Definitions;

'**coarse heavy residue waste**' means the coarse heavy fraction of process residue wastes from the Mindarie Regional Council - Resource Recovery Facility (RRF) located at Lot 801 on Plan 57533 Pederick Road, Neerabup, Western Australia;

'**Contaminated Solid Waste**' means contaminated solid waste meeting the Acceptance Criteria for Class II/III landfills, as specified in the Landfill Definitions;

'**green waste**' means waste that originates from flora and which does not contain or has not been treated or coated with, preserving agents, biocides, fire retardants, paint, adhesives or binders;

'**hardstand**' means a surface with a permeability of 10^{-9} metres/second or less;

'**internal buffer distance**' means the distance from the boundary of the premises to any area on the premises used for disposal, storage or transfer of waste;

'**Inert Waste Type 1**' has the meaning defined in Landfill Definitions;

'**Inert Waste Type 2**' has the meaning defined in Landfill Definitions;

'**Landfill Definitions**' means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;

'**leachate**' means liquid released by or water that has percolated through waste and which contains some of its constituents;

'**Licence**' means this Licence numbered L6963/1997/14 and issued under the Act;

'**Licensee**' means the person or organisation named as Licensee on page 1 of the Licence;

'**NATA**' means the National Association of Testing Authorities, Australia;

'**NATA accredited**' means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

'**Putrescible**' has the meaning defined in Landfill Definitions;

'**Premises**' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

'**quarantined storage area or container**' means a hardstand storage area or sealed-bottom container or an area on a lined landfill that is separate and isolated from authorised waste disposal areas and is capable of containing all non-conforming waste and its constituents; these areas must be clearly marked and their access restricted to authorised personnel;



‘**Schedule 1**’ means Schedule 1 of this Licence unless otherwise stated;

‘**Schedule 2**’ means Schedule 2 of this Licence unless otherwise stated;

‘**sealed container**’ means a sealed-bottom container, either lidded or unlidded, that is capable of containing deposited waste and its constituents;

‘**Special Waste Type 1**’ has the meaning defined in Landfill Definitions;

‘**Special Waste Type 2**’ has the meaning defined in Landfill Definitions;

‘**spot sample**’ means a discrete sample representative at the time and place at which the sample is taken; and

‘**usual working day**’ means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.2 Premises operation

1.2.1 Licensee shall only accept waste on to the Premises if:

- (a) it is of a type listed in Table 1.2.1; and
- (b) the quantity accepted is below any quantity limit listed in Table 1.2.1; and
- (c) it meets any specification listed in Table 1.2.1; and
- (d) in the case of contaminated solid waste is supported by documentation that demonstrates compliance with the acceptance criteria for Class II/III landfills.

Waste type	Quantity limit	Specification ¹	
Clean Fill	350,000 tonnes per annual period (cumulative)	None Specified	
Inert Waste Type 1		350,000 tonnes per annual period (cumulative)	Tyres and plastic only.
Inert Waste Type 2			
Putrescible waste			None Specified
Special Waste Type 1			Asbestos and asbestos containing materials (ACM)
Special Waste Type 2			Biomedical / clinical (excluding radioactive waste ²)
Contaminated Solid Waste – Class II	6,500 tonnes per annual period		Must meet the acceptance criteria for Class II landfills
Contaminated Solid Waste – Class III		Limited to coarse heavy residue waste only which must meet the acceptance criteria for Class III landfills.	

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

Note 2: Information relating to the classification of radioactive waste can be found in the *West Australian Radiation Safety Act 1975*.

1.2.2 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.2.1 it is removed from the Premises by the delivery vehicle or, where that is not possible, stored in a quarantined storage area or container and removed to an appropriately authorised facility as soon as practicable.



1.2.3 The Licensee shall ensure that wastes accepted onto the Premises are only subjected to the process(es) set out in Table 1.2.2 and in accordance with any process limits described in that Table.

Table 1.2.2: Waste processing		
Waste type	Process(es)	Process limits¹
All waste types as specified in Table 1.2.1	Disposal of waste by landfilling	<ul style="list-style-type: none"> Disposal of waste by landfilling shall only take place within the following areas of the landfill: <ul style="list-style-type: none"> - Stage 2 Phase 2 West; - Stage 2 Phase 2 East; and - Stage 2 Phase 3 as depicted on the Landfill Area and Site Layout Map in Schedule 1; Shall ensure that the tipping face is no greater than 3 m in vertical height; Shall restrict the tipping area to a maximum linear length of 50 metres; The separation distance between the base of the landfill and the highest level of the phreatic surface of groundwater shall not be less than 2 m; Shall maintain an internal buffer distance of 50 m from the boundary of the premises; and Shall not landfill tyres at the premises.
Clean Fill	Receipt, handling, associated storage prior to reuse or disposal by landfilling	None specified.
Inert Waste Type 1		
Inert Waste Type 2		<ul style="list-style-type: none"> No more than 500 tyres shall be stored at the premises at any one time; A 2m separation distance shall be maintained between the tyres stack/pile and adjacent bushland; Vehicle access to the tyre stack/pile shall be maintained on three sides; Tyres must be collected and removed to an appropriate authorised facility as soon as practicable; and individual tyre stacks shall not exceed: <ul style="list-style-type: none"> - 2 m in height; and - 75 m² in area.
Putrescible waste	Putrescible waste received at the transfer station shall: <ul style="list-style-type: none"> Only to be stored in sealed containers or on a hardstand area bunded to prevent run-off; and Shall not be stored on the site for longer than 48 hours. 	
Special Waste Type 1	Receipt, handling and disposal by landfilling	<p>The following procedures shall be implemented:</p> <ul style="list-style-type: none"> waste shall only be disposed of into a designated asbestos disposal area within the landfill. The disposal area(s) for any more than one cubic metre of asbestos material must be defined by grid references on a premises plan; a copy of the premises plan marked with the locations used for was disposal, as described above, shall be kept as a permanent record; not to be deposited within 2 m of the final tipping surface of the landfill; and



Table 1.2.2: Waste processing		
Waste type	Process(es)	Process limits ¹
		<ul style="list-style-type: none"> no works shall be carried out on the landfill that could lead to a release of asbestos fibres.
Special Waste Type 2		<p>The following procedures shall be implemented:</p> <ul style="list-style-type: none"> only to be disposed of into a designated biomedical or clinical waste disposal area within the landfill. The disposal area(s) must be defined by grid references on a premises plan; a copy of the premises plan marked with the locations used for waste disposal, as described above, shall be kept as a permanent record; not to be deposited within 2 m of the final tipping surface of the landfill; and No works shall be carried out on the landfill that could lead to biomedical or clinical wastes being excavated or uncovered.
Contaminated Solid Waste		<ul style="list-style-type: none"> Course heavy residue waste meeting acceptance criteria for Class III landfills shall only be disposed of to Stage 2 Phase 2 West, Stage 2 Phase 2 East and Stage 2 Phase 3 as depicted on the Landfill Area and Site Layout Map in Schedule 1.

Note 1: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

- 1.2.4 The Licensee shall manage the landfilling activities to ensure:
- waste is levelled and compacted as soon as practicable after it is discharged; and
 - waste is placed and compacted to ensure all faces are stable and capable of retaining rehabilitation material; and
 - rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.
- 1.2.5 The Licensee shall recycle leachate from the Stage 2 landfilling area (as depicted on the Landfill Area and Site Layout Map in Schedule 1) by irrigation over, or injecting into, the Stage 2 landfilling area.
- 1.2.6 The Licensee shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.2.3 and that sufficient stockpiles of cover are maintained on-site at all times.



Table 1.2.3: Cover requirements	
Waste Type	Cover requirements
Inert Waste Type 1	No cover required
Inert Waste Type 2	To be covered by the end of the working day in which the waste was deposited with sufficient quantities (at least 150 mm) of inert waste type 1, clean fill or other appropriate cover material to prevent the spread of fire and harbouring of disease vectors.
Putrescible wastes	
Contaminated Solid Waste	To be covered with a 1000 mm of inert waste type 1, clean fill, or putrescible waste as soon as practicable after deposit and before being compacted to prevent the release of asbestos fibres as a result of compaction and other landfilling activities.
Special Waste Type 1	
Special Waste Type 2	To be covered with 1000 mm of inert waste type 1 or clean fill as soon as practicable and before compaction.

1.2.7 The Licensee shall submit capping information and undertake capping works in accordance with the requirements of Table 1.2.4.

Table 1.2.4: Capping requirements		
Cell Number(s)	Specification	Timescales
Stage 2 Phase 2 West, Stage 2 Phase 2 East and Stage 2 Phase 3	A capping plan is to be submitted to the CEO including, but not limited to: detailed design, material specifications, proposed landfill gas collection infrastructure, current and finished surveyed levels and details on construction quality assurance.	At least 3 months prior to the completion of waste disposal in each cell.
	Complete capping works in accordance with Capping Plan submitted to the CEO.	No later than 6 months after the completion of waste disposal in each cell

1.2.8 The Licensee shall install and operate a system for controlling landfill gas generated on the Premises to prevent lateral migration of landfill gas outside the boundary of the Premises.

1.2.9 The Licensee shall implement the following security measures at the site:

- (a) erect and maintain suitable fencing to prevent unauthorised access to the site; and
- (b) ensure that any entrance gates to the premises are securely locked when the premises are unattended; and
- (c) undertake regular inspections of all security measures and repair damage as soon as practicable;

1.2.10 The Licensee shall install and maintain a sign at the entrance to the Premises which clearly displays the following information;

- (a) hours of operation;
- (b) contact telephone number;
- (c) warning indicating penalties for people lighting fires; and
- (d) list of materials accepted for recycling and the location of where they can be deposited on the premises where practical.

1.2.11 The Licensee shall implement control measures to prevent infestations of pests, flies and vermin at the Premises.

1.2.12 The Licensee shall take all reasonable and practical measures to ensure that no windblown waste escapes from the Premises and that windblown waste is collected on at least a weekly basis and returned to the tipping area or appropriately contained.



- 1.2.13 The Licensee shall maintain a vehicle wash-down facility to avoid the potential for vehicles to track waste or matter from the landfill outside the premises boundary.
- 1.2.14 The Licensee shall ensure that no waste is burnt on the premises.
- 1.2.15 The Licensee shall ensure an adequate water supply and a means of distribution be provided at all times, to extinguish a fire at any part of the premises.
- 1.2.16 The Licensee shall:
 - (a) divert stormwater from the filled areas of the site to dedicated stormwater drains; and
 - (b) remove waste from stormwater drains to allow effective draining.

2 Monitoring

2.1 General monitoring

- 2.1.1 The licensee shall ensure that:
 - (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
 - (b) all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
 - (c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the relevant table.
- 2.1.2 The licensee shall ensure that:
 - (a) six monthly monitoring is undertaken at least 5 months apart; and
 - (b) annual monitoring is undertaken at least 9 months apart.
- 2.1.3 The Licensee shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.
- 2.1.4 The Licensee shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

2.2 Monitoring of inputs and outputs

- 2.2.1 The Licensee shall undertake the monitoring in Table 2.2.1 according to the specifications in that table.

Table 2.2.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Clean Fill, Inert Waste Type 1, Inert Waste Type 2, Putrescible waste, Special Waste Type 1, Special Waste Type 2, and Contaminated Solid Waste	tonnes (where a weighbridge is present on the site)	N/A	Each load arriving at the Premises
		m ³ (where no weighbridge is present)		
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises



2.3 Ambient environmental quality monitoring

2.3.1 The Licensee shall undertake the monitoring in Table 2.3.1 according to the specifications in that table and record and investigate results that do not meet any limit specified.

Table 2.3.1: Monitoring of ambient groundwater quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
TP1 TP2 TPL1A-C TPL2A-C TPL3A-C TP19A-C TP20A-C BB21A-C BB22A-C BB23A-C BB24A-C BB25A-C BB26A-C BB27A-C As depicted in the Map of monitoring locations in Schedule 1	Standing water level	m(AHD)	Spot sample	Six monthly
	pH ¹			
	Electrical conductivity ¹	µS/cm		
	Major ions Calcium, Chloride, Bicarbonate, Potassium, Magnesium, Sodium, Sulfate,	mg/L	Spot sample	Annual
	Ammonium, Nitrate			
	Total Organic Carbon	mg/L		
	Organophosphorus			
	Pesticides			
	Organochlorine pesticides			
	Polychlorinated Biphenyls (PCBs)			
	Polyaromatic hydrocarbons (PAHs)			
	BTEX (Benzene, Ethylbenzene, Toluene, Xylene) Total BTEX			
	Total Recoverable Hydrocarbons (TRH)			
	Metals – Dissolved Aluminium, Boron, Barium, Cadmium, Cobalt, Copper, Iron, Manganese, Molybdenum, Nickel, Lead, Vanadium, Zinc			
Metals – Total Arsenic, Chromium				

Note 1: In-field non-NATA accredited analysis permitted.

3 Information

3.1 Records

3.1.1 All information and records required by the Licence shall:

- (a) be legible;
- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
- (c) except for records listed in 3.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
 - (i) off-site environmental effects; or
 - (ii) matters which affect the condition of the land or waters.



3.1.2 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

3.1.3 The Licensee shall:

- (a) implement a complaints management system that shall record the following information (if known or provided) about complaints received at the Premises concerning any environmental impact of the activities undertaken at the Premises:
 - (i) name and address of the complainants (if consented);
 - (ii) date and time of complaint;
 - (iii) date and time of alleged incident;
 - (iv) alleged source of the incident;
 - (v) general description of the alleged incident, including any environmental or health impacts reported by the complainant;
 - (vi) wind direction, wind speed and temperature at time of alleged incident;
 - (vii) likely source of the alleged incident; and
 - (viii) actions taken by the Licensee to address the complaint, including the outcome of any investigation(s) and action(s) to verify any impacts.
- (b) complete an annual analysis and review of complaints recorded under 3.1.4(a) to identify any common factors and root cause of complaints and proposals to address these.

3.2 Reporting

3.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by the 31 March each year. The report shall contain the information listed in Table 3.2.1 in the format or form specified in that table.

Table 3.2.1: Annual Environmental Report		
Condition or table (if relevant)	Parameter	Format or form ¹
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 2.2.1	Summary of Inputs and Outputs	
-	Summary of materials processed under Category 12	
Table 2.3.1	Monitoring of ambient groundwater quality. A summary of the monitoring results should be presented in tabulated form within the body of the report as well as onto site drawings, where appropriate. Assessment of ambient groundwater quality monitoring results against previous monitoring results and relevant assessment levels for water as published in the Assessment and management of contaminated sites guidelines.	
3.1.3	Compliance	Annual Audit Compliance Report (AACR) ²
3.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

Note 2: Electronic copy of AACR forms can be downloaded from the DER website:

<https://www.der.wa.gov.au/our-work/licences-and-works-approvals/publications>

3.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:

- (a) an assessment of the information contained within the report against previous monitoring results and Licence limits.



3.3 Notification

3.3.1 The Licensee shall ensure that the parameters listed in Table 3.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 3.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
-	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day. Part B: As soon as practicable	N1
2.1.4	Calibration report	As soon as practicable.	None specified
2.3.1	Any groundwater monitoring bores listed in Table 2.3.1 are destroyed or otherwise made unserviceable	Within 7 days of identifying destroyed or unserviceable groundwater monitoring bores	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink line depicts the Premises boundary.



LEGEND		
Local Government Authorities	Road Centrelines	N
Cadastro	FW	TR
Hydrography, linear (hierarchy)	LV	Perth Metropolitan Area
	LRO	Central 15cm Orthomosaic -
	LRS	Landgate 2014
	MR (cont)	

0 500m

Scale 1:17007

(Approximate when reproduced at A4)

Geocentric Datum Australia 1994

Note: the data in this map have not been projected. This may result in geometric distortion or measurement inaccuracies.

Prepared by:
Date: 30/11/2015 12:51:59 PM

Information derived from this map should be confirmed with the data custodian acknowledged by the agency acronym in the legend.

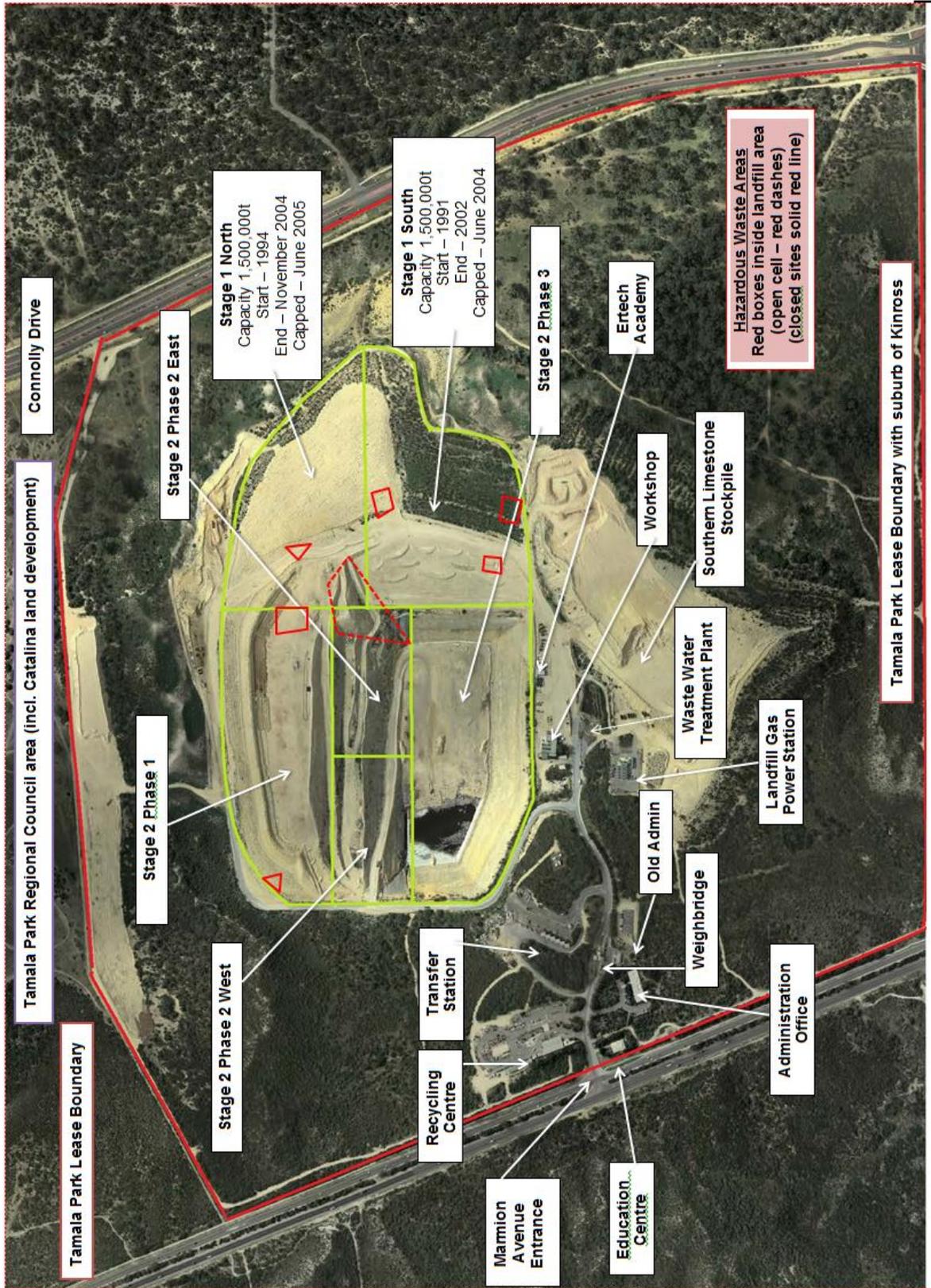
Government of Western Australia
Department of Environment Regulation
WA Crown Copyright 2002

* Project Data. This data has not been quality assured. Please contact map author for details.



Landfill Area and Site Layout Map

2012 Aerial of Mandarie Regional Council – site layout – D/13/1060 – Current Hazardous Waste Area as of Sept 2014





Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

1. Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)

Yes Please proceed to Section C

No Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



SECTION C

SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) may only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: _____

SIGNATURE: _____

NAME:
(printed) _____

NAME:
(printed) _____

POSITION: _____

POSITION: _____

DATE: ____/____/____

DATE: ____/____/____

SEAL (if signing under seal)



Licence: L6963/1997/14
 Form: N1

Licensee: Mindarie Regional Council
 Date of breach:

Notification of detection of the breach of a limit.

These pages outline the information that the operator must provide.
 Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	



Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Mindarie Regional Council	
Date	



Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Mindarie Regional Council**

Licence: **L6963/1997/14**

Registered office: 1700 Marmion Avenue
TAMALA PARK, WA 6030

Premises address: Tamala Park Waste Management Facility
1700 Marmion Avenue
CLARKSON WA 6030
Being part of Lot 9020 on Plan 408820

Issue date: Wednesday, 15 May 2013

Commencement date: Wednesday, 26 June 2013

Expiry date: Tuesday, 25 June 2030

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER) CEO, delegated officer has decided to issue an amended licence. The delegated officer considers that in reaching this decision, he has taken into account all relevant considerations.

Decision Document prepared by: Jarrod Abrahams
Licensing Officer

Decision Document authorised by: Alan Kietzmann
Delegated Officer



Contents

Contents	2
1 Purpose of this Document	2
2 Administrative summary	3
3 Executive summary of proposal and assessment	4
4 Advertisement and consultation table	5

1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.



2 Administrative summary

Administrative details													
Application type	Works Approval <input type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input checked="" type="checkbox"/> Works Approval amendment <input type="checkbox"/>												
Activities that cause the premises to become prescribed premises	<table border="1"> <thead> <tr> <th>Category number(s)</th> <th>Assessed design capacity</th> </tr> </thead> <tbody> <tr> <td>12</td> <td>1,500,000 tonnes</td> </tr> <tr> <td>57</td> <td>500 tyres (at any one time)</td> </tr> <tr> <td>62</td> <td>15,000 tonnes</td> </tr> <tr> <td>64</td> <td>350,000 tonnes</td> </tr> <tr> <td>77</td> <td>30,000 tonnes</td> </tr> </tbody> </table>	Category number(s)	Assessed design capacity	12	1,500,000 tonnes	57	500 tyres (at any one time)	62	15,000 tonnes	64	350,000 tonnes	77	30,000 tonnes
	Category number(s)	Assessed design capacity											
	12	1,500,000 tonnes											
	57	500 tyres (at any one time)											
	62	15,000 tonnes											
64	350,000 tonnes												
77	30,000 tonnes												
Application verified	Date: 9 October 2015												
Application fee paid	Date: N/A												
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>												
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>												
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
Commercial-in-confidence claim outcome													
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>												
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Ministerial statement No: EPA Report No:												
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>												
Is the Premises within an Environmental Protection Policy (EPP) Area	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
If Yes include details of which EPP(s) here:													
Is the Premises subject to any EPP requirements?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>												
If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.													



3 Executive summary of proposal and assessment

DER initiated amendment

DER has initiated this amendment to the licence to update the legal land description on the licence, amend the licence expiry date in accordance with the notice of *Amendment of Licence Expiry Dates* dated 29 April 2016 and implement administrative changes (for background on the licence duration extension refer to <https://www.der.wa.gov.au/images/documents/our-work/licences-and-works-approvals/notice-of-amendmentof-licence-expiry-dates.pdf>).

Administrative changes have been implemented in accordance with DER's Operational Procedure on Redundant Conditions. The proposed amendments do not alter existing emissions or discharges associated with the operation of the premises under the licence therefore associated environmental risks that were previously documented have not been revisited or re-assessed with the exception of stormwater management.

Additional information on the implemented administrative changes and DER's assessment on stormwater management is detailed in the Decision Table in Section 4. Please note as a result of the above changes the numbering of previous licence conditions (and associated tables) has altered.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987*, and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	N/A	<p>In accordance with DER's Operational Procedure on Redundant Conditions, former general conditions L1.2.1 and L1.2.2 have been removed from the licence. These conditions are considered 'redundant' as they do not meet the requirements for conditions in DER's <i>Guidance Statement: Setting Conditions</i> as they are either not valid, not enforceable or not risk-based. Any discharge to the environment of hazardous materials will require clean up as these will be subject to the provisions of the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>The removal of former condition L1.2.2 relating to stormwater management is discussed further under 'Premises Operation' (below).</p> <p>As there are no longer any conditions within the 'General conditions' section of the licence the reference to this section has been removed.</p>	
Premises operation	L1.2.16	<p>Stormwater <u>Emission Description</u> <i>Emission:</i> Stormwater contaminated after coming into contact with waste or contaminated wastewater on-site.</p> <p><i>Impact:</i> Contamination of surrounding land and surface water drainage systems. Potential impacts to underlying groundwater from seepage.</p> <p><i>Controls:</i> Equipment and infrastructure on-site is designed to direct clean stormwater way from waste areas and contaminated wastewater thus minimising the lechate production. The on-site control program is outlined in Section 3.10 of the <i>Tamala</i></p>	<p><i>Tamala Park Environmental Management and Monitoring Program D/09/5805</i> (MRC, April 2015)</p> <p><i>Environmental Protection (Unauthorised Discharges)</i></p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Park Environmental Management and Monitoring Program D/09/5805</i> (MRC, April 2015), as summarised below:</p> <ul style="list-style-type: none"> • Stormwater is diverted from the landfill cells by a network of drains and sumps strategically constructed around the cells. • Stormwater drains are cleared, re-graded and re-profiled (as required) prior to the wet season every year. • Stormwater drains and sumps are cleared of silt and litter where the environmental inspection identifies this as necessary. • Ensure that no stormwater contaminated with waste is discharged at or beyond the boundary of the premises. • Maintain an undisturbed separation distance of at least 2 metres below the base of the deepest excavation and the highest level of the phreatic surface of the groundwater. • On completion landfill cells are capped, to ensure runoff rather than infiltration of rainfall • The western faces of Stage 1 south currently discharges into a number of swales to the south of Stage 2 Phase 3. These swales will be lost when Stage 2 Phase 3 is lined. A combination of some or all of the following methods are currently being used to continue minimising the ingress of water into the landfill: <ul style="list-style-type: none"> • Construction of a 2m high bund wall across the eastern end of Phase 3; and • Swale catchment areas over Stage 1 south-western side were installed to catch and slow down the speed of the water where the water evaporates away or soaks into the limestone ground. <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p>	<i>Regulations 2004</i>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
			and-works-approvals/notice-of-amendmentof-licence-expiry-dates.pdf).



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
21/06/2016	Proponent sent a copy of draft instrument	21 day consultation waiver form received by proponent 1 July 2016 with further comment.	N/A