

#### LICENCE FOR PRESCRIBED PREMISES

#### Environmental Protection Act 1986

#### **LICENCE**

LICENCE NUMBER: L6462/1992/12 FILE NUMBER: DEC6730

NAME OF OCCUPIER:

City of Greater Geraldton

ADDRESS OF OCCUPIER:

63 Cathedral Avenue GERALDTON WA 6530

#### NAME AND LOCATION OF PREMISES:

Meru Waste Disposal Facility Lot 2227 on Plan 254811 and Lot 2268 on Plan 250829, NARNGULU WA 6532

### Environmental Protection Regulations 1987 CLASSIFICATION(S) OF PREMISES:

Category 61 - Liquid waste facility

Category 67A - Compost manufacturing and soil blending

Category 64 - Class II or III putrescible landfill site

Category 57 - Used tyre storage (general)

**COMMENCEMENT DATE OF LICENCE: Thursday, 12 December 2013** 

**EXPIRY DATE OF LICENCE: Tuesday, 11 December 2018** 

#### **CONDITIONS OF LICENCE:**

As described and attached:

DEFINITIONS
GENERAL CONDITION(S) (8)
AIR POLLUTION CONTROL CONDITION(S) (3)
WATER POLLUTION CONTROL CONDITION(S) (6)
SOLID WASTE CONTROL CONDITION(S) (2)
ATTACHMENTS (3)

Date signed: 28 November 2013
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Officer delegated under Section 20
of the Environmental Protection Act 1986
Date of Issue: Thursday 28 November 2013

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#### **CONDITIONS OF LICENCE**

#### **DEFINITIONS**

In these conditions of licence, unless inconsistent with the text or subject matter:

"approved" and "approval" means approved and approval in writing from time to time, respectively;

"AHD" means Australian Height Datum;

"asbestos" means as defined in the Environmental Protection (Controlled Waste) Regulations 2004:

"asbestos waste" means Special Waste Type 1 – asbestos and asbestos cement products waste as defined in the current version of the "Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)";

"clean fill" means material that will have no harmful effects on the environment and which consists of rocks or soil arising from the excavation of undisturbed material;

"continuous cover technique" means the daily covering of waste with at least 150mm of cover material;

"cover material" means subsoil or other approved inert waste used for covering of waste;

"DER" means the Department of Environment Regulation;

"Director" means Director, Environmental Regulation Division of the Department of Environment Regulation for and on behalf of the Chief Executive Officer as delegated under Section 20 of the *Environmental Protection Act 1986*:

"Director" for the purposes of correspondence means:

Regional Leader - Industry Regulation, Midwest Regional Office

Department of Environment Regulation

PO Box 72 Telephone: (08) 9921 5955 GERALDTON WA 6531 Facsimile: (08) 9921 5713;

"FESA" means the Fire and Emergency Services Authority of Western Australia:

"Fire Control Officer", in relation to the premises, means a person who has such qualifications in fire fighting or fire control as are approved, appointed to that position by the occupier of the premises;

"greenwaste" means waste that originates from trees or plants;

"Inert Waste Type 1" means:

- (a) non-hazardous, non-biodegradable (half-life greater than 2 years) wastes containing contaminant concentrations less than Class I landfill acceptance criteria but excluding paper and cardboard; and
- (b) materials specified under the heading 'Examples of Type 1 inert wastes' in Table 2 of the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)';

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"Inert Waste Type 2" means:

- (a) non-hazardous, non-biodegradable (half-life greater than 2 years) wastes containing contaminant concentrations less than Class I landfill acceptance criteria but excluding paper and cardboard; and
- (b) includes materials specified under the heading 'Examples of Type 2 inert wastes' in Table 2 of the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)':

"Landfill Waste Classification and Waste Definitions 1996 (as amended 2009)", refers to the document issued by the Chief Executive Officer of the Department of Environment and Conservation, dated 2009;

"litter screen" means a chicken wire fence or similar, with a maximum aperture of 50 mm and at least 1.8 metres in height;

"material containing asbestos" means as defined in the Environmental Protection (Controlled Waste) Regulations 2004;

"mm" and "mg/L" means millimetre, and milligrams per litre, respectively;

"municipal waste" means waste collected at the kerbside by the local authority collection vehicle or its contractor;

"NATA" means National Association of Testing Authorities;

"putrescible waste" means;

- (a) the component of the waste stream likely to become putrid including wastes that contain organic materials such as food wastes or wastes of animal or vegetable origin, which readily bio-degrade within the environment of a landfill;
- (b) includes materials specified under the heading 'Examples' in Table 2 of the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)';

"premises" means the Meru Waste Disposal Facility, located on Lot 2227 on Plan 254811, Certificate of Title Volume 1880, Folio 301 and Lot 2268 on Plan 250829, Certificate of Title Volume 1863, Folio 480, Narngulu WA 6532; (as depicted in Attachment 1);

"security mesh fence" means a "cyclone" style of fence with a minimum height of 1.8 metres and topped with three strands of barbed wire;

"SWL" means the standing water level in metres below ground level or AHD (prior to sampling); and

"Special Waste type 1" means

- (a) asbestos wastes; and
- (b) includes materials specified under the heading 'Examples of Type 1 Special Waste' in Table 2 of the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)';

"Special Waste type 2" means

- (a) biomedical wastes; and
- (b) includes materials specified under the heading 'Examples of Type 2 Special

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Waste' in Table 2 of the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)';

"tyres" where 100 whole used tyres are the equivalent of 2 cubic metres of shredded, broken or pieces of used tyres;

"tyre windrows" means parallel rows where each row is no more than 3 metres high and no more than 4 metres wide and separated by a minimum of 3 metres of clear ground from any other row; and

"wire stock fence" means a fence at least 1.2 metres in height which is constructed from five strand plain or barbed wire or a ring lock fence with at least one strand of plain or barbed wire on top.

#### **GENERAL CONDITIONS**

#### WASTE ACCEPTANCE AND MANAGEMENT

- G1(a) The licensee shall accept and bury only the following types of waste at the premises:
  - (i) clean fill;
  - (ii) liquid wastes (to septage ponds);
  - (iii) inert waste type 1;
  - (iv) inert waste type 2 (storage and transfer of used, rejected or unwanted tyres);
  - (v) putrescible wastes;
  - (vi) special waste type 1 (asbestos wastes);
  - (vii) special wastes type 2 (biomedical waste which is approved for supervised burial); and
  - (viii) other wastes that comply with Class III criteria in the document entitled 'Landfill Waste Classification and Waste Definitions 1996 (As amended 2009)'.
- G1 (b) The licensee shall take the following measures when managing biomedical wastes (Special Waste Type 2) at the premises:
  - the licensee, or their representative, must complete and sign the original waste transport certificate noting, in writing, any discrepancies between waste declared and waste received;
  - (ii) keep a record of the waste transport certificate for at least three years;
  - (iii) immediately unload and cover the waste with a minimum depth of one metre of soil or solid waste;
  - (iv) define the disposal area(s) by grid references on the site plan;
  - (v) ensure the disposal areas are not excavated or uncovered during subsequent landfill operations;
  - (vi) restrict access to the landfill site where the waste is buried to authorised personnel only; and
  - (vii) make the information recorded in accordance with part (ii) of this condition available for viewing or copying by the Director during any inspection of the premises.



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- G1(c) The licensee shall ensure that asbestos waste or material containing asbestos is deposited at the premises according to the following requirements:
  - (i) accept only asbestos waste or material containing asbestos which is sealed in double-lined or double bagged, heavy duty plastic sheeting of at least 0.2 millimetres thickness:
  - (ii) accept only wrapped or otherwise contained asbestos waste or material containing asbestos, which is labelled or marked with the words "CAUTION ASBESTOS" in letters not less than 50 millimetres high;
  - (iii) as soon as practicable and before compaction, cover the asbestos waste or material containing asbestos with a layer of soil at least 300 millimetres thick or with a layer of dense, inert and incombustible material at least 1 metre thick;
  - (iv) record as grid references on a premises plan all locations used for the disposal of asbestos waste or material containing asbestos and keep this plan as a permanent record;
  - (v) keep a permanent register of each load of asbestos waste or material containing asbestos deposited at the premises, including the date, the name of person that deposited the asbestos or material containing asbestos and the vehicle registration number;
  - (vi) witness the covering of the asbestos waste or material containing asbestos and sign the register referred to above within two hours of the covering taking place;
  - (vii) not deposit any asbestos waste or material containing asbestos within two metres of the final tipping surface of the landfill;
  - (viii) operate the landfill such that any existing asbestos waste or material containing asbestos deposited at the premises remains undisturbed; and
  - (ix) make all records available for viewing by an inspector upon request.

#### MANAGEMENT OF LANDFILL ACTIVITIES

- G2 The licensee shall take the following measures when landfilling activities are conducted at the premises:
  - (i) dispose of waste on the premises at least 35 metres from the premises' boundary;
  - (ii) place waste within a defined trench or within an area enclosed by earthen or other bunds:
  - (iii) restrict the non-greenwaste tipping area to a maximum linear length of 30 metres:
  - (iv) cover waste with at least 230 mm of cover material at least daily or where continuous cover techniques are used, provide a final cover over the waste of at least 100mm every day;
  - (v) cover municipal waste within 24 hours of delivery;



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- (vi) stockpile sufficient cover material to allow waste to be covered in accordance with part (iv) of this condition and to cover waste in the event of a fire;
- (vii) except where trenches are used, initially spread waste in layers not more than 500mm thickness prior to being compacted with a minimum of five passes with the waste compacting machine;
- (viii) manage the active landfill area such that at no time does landfilling result in an exposed face exceeding two metres in vertical height; and
- (ix) cover waste with a final soil cover of at least one metre.

#### **FENCING**

- G3(a) The licensee shall maintain a fence at least 1.8 m high around the whole of the perimeter of the premises, except where there is a lockable gate(s).
- G3(b) The licensee shall ensure that any entrance to the premises is securely locked when the premises is unattended.
- G3(c) The licensee shall ensure that weekly inspections of the fence and gates referred to in parts (a) and (b) of this condition are undertaken and that any damage to the fence and gate(s) are repaired within one working day of its discovery.

#### WIND-BLOWN WASTE

- G4(a) The licensee shall ensure that wind-blown waste is contained within the boundaries of the active landfill area.
- G4(b) The licensee shall ensure that any wind-blown waste is removed from the premises' fences and roads, and any wind-blown waste emanating from the premises is collected and removed on a weekly basis or more frequently when directed in writing by the Director.

#### MONITORING AND REPORTING

- The licensee shall by **1 March in each year**, provide to the Director an Annual Audit Compliance Report in the form in Attachment 2 to this licence, signed and certified in the manner required by Section C of the form, indicating the extent to which the licensee has complied with the conditions of this licence, and any previous licence issued under Part V of the Act for the premises, during the period beginning 1 January the previous year and ending on 31 December.
- G6(a) The licensee shall provide to the Director a copy of the Annual Environmental Report containing the monitoring data required by any condition of this licence. The report shall contain data collected from 1 January to 31 December and shall be provided by **1 March each year** in a format approved by the Director.
- G6(b) The report shall include, but not be limited to, an assessment of the data against any limits set in this licence or other environmental guidelines or policies and data from previous years' monitoring. It shall identify any data exceeding those limits, guidelines or policies and provide information on why the exceedance occurred (if known) and action taken by the licensee to prevent recurrence of such exceedances.



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- G6(c) The licensee shall list any monitoring methods used to collect and analyse data required by any condition of this licence to demonstrate they comply with the methods specified in this licence.
- G6(d) The licensee shall provide details of:
  - (i) measures taken to control pests and vermin;
  - (ii) number and severity of any fires on site;
  - (iii) measures taken to suppress dust:
  - (iv) measures taken to control windblown waste;
  - (iii) average compaction rates;
  - (iv) records detailing the number of tyres collected, stored, on-sold, and disposed at the premise; and
  - (vi) the number and type of complaints received including the nature of complaint (where appropriate cross referenced with prevailing wind directions) and action taken.
- G6(e) The Annual Environmental Report shall include any changes to site boundaries, internal buffer zones, asbestos and biomedical waste disposal areas, location of groundwater monitoring bores and surface drainage channels.
- G6(f) The Annual Environmental Report shall include any issues raised by DER (e.g. arising from inspections) during the reporting period shall be summarised together with details on how these have been addressed/rectified or, if the required work has yet to be completed, how and when they will be rectified/completed.

#### MANAGEMENT OF USED TYRES

- G7(a) The licensee shall store no more than 1,000 used tyres on the premises at any one time.
- G7(b) The licensee shall dispose of tyres at the premises in accordance with regulation 14 (2) of the Environmental Protection Regulations 1987.
- G7(c) The licensee shall ensure that used tyres are stored in tyre windrows with at least three metres separating each windrow to allow access by fire fighting equipment.

#### **SIGNAGE**

- G8 The licensee shall maintain signage at the entrance to the premises which clearly displays the following:
  - (i) contact telephone number for information and complaints or notification of fires:
  - (ii) a list of materials that are accepted;
  - (iii) the types of waste that must not be deposited on the premises and a contact telephone number for alternative disposal options;
  - (iv) location of designated tyre stockpile area; and
  - (v) a warning, indicating penalties for people lighting fires.

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#### **AIR POLLUTION CONTROL CONDITIONS**

#### **DUST - GENERAL REQUIREMENT**

A1 The licensee shall suppress dust from the open landfill face or trench, stockpiled areas and transport activities, to ensure that no visible dust crosses the boundary of the premises.

#### **BURNING OF WASTE**

- A2(a) The licensee shall not burn or allow the burning of waste on the premises.
- A2(b) The licensee shall extinguish any fire that may occur within the landfill site immediately on being notified of the fire.
- A2(c) The licensee shall provide the Director with a report on an unauthorised fire within 7 days of the fire and include:
  - (i) details of the date, time and location of the fire;
  - (ii) the time the fire was declared safe by the Fire Control Officer for the premises; and
  - (iii) the cause, or suspected cause, of the fire.

#### FIRE FIGHTING CAPABILITY

- A3(a) The licensee shall ensure that appropriate fire fighting equipment is stored on-site that is capable of controlling and/or abating a fire at the premises.
- A3(b) The licensee shall ensure that a fire management strategy is implemented and updated as required.
- A3(c) The licensee shall advise the Director immediately in the event of a fire on the premises.

#### WATER POLLUTION CONTROL CONDITIONS

#### MANAGEMENT OF STORMWATER AND WASTEWATER

- W1(a) The licensee shall direct uncontaminated stormwater run-off, such as water from roofs and site drainage, away from the filled and peripheral areas and associated sumps or drains into dedicated stormwater drains.
- W1(b) The licensee shall ensure stormwater drains on the premises are kept clear of waste to allow for their effective use.
- W1(c) The licensee shall ensure that any stormwater that has come into contact with waste and any other liquid waste that may result from fire fighting is diverted into a sump on the premises or otherwise retained on the premises.

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#### PROTECTION OF GROUND AND SURFACE WATERS

- W2(a) The licensee shall maintain an undisturbed separation distance of at least 2 metres between the base of the current and future waste disposal areas and the highest level of the groundwater.
- W2(b) The licensee shall maintain a minimum distance of at least 100 metres between the waste disposal site and any superficial water body.

#### **GROUNDWATER BORES**

W3 The licensee shall maintain Bores 1, 2 and 3, as depicted in Attachment 3, to enable the monitoring procedures required by condition W4(a).

#### **GROUNDWATER MONITORING**

W4(a) The licensee shall take representative groundwater samples from the following monitoring sites and have them analysed for the following parameters:

Monitoring site(s)	Sampling frequency	Parameters to be measured
Bores 1, 2 and 3	Annual	arsenic, ammonia-nitrogen, cadmium, copper, chloride, chromium, conductivity, lead, manganese, mercury, molybdenum, nickel, pH, selenium, total phosphorus, total potassium, total nitrogen, total soluble solids, zinc and standing water level (SWL)*

<sup>\*</sup>SWL shall be determined prior to collection of other water samples.

- W4(b) With the exception of pH and conductivity, the licensee shall report all measurements in mg/L.
- W4(c) The licensee shall collect all water samples in accordance with Australian Standard 5667
- W4(d) The licensee shall submit all water samples to a laboratory with current NATA accreditation for the analyses specified, and ensure the samples are analysed in accordance with the current "Standard Methods for Examination of Water and Wastewater-APHA-AWWA-WEF".
- W4(e) The licensee shall ensure that the recorded results of the sampling and analysis referred to in parts (a), (c) and (d) of this condition are provided to the Director in accordance with condition G6(a).

#### OPERATION OF THE SEPTAGE TREATMENT SYSTEM

- W5 The licensee shall operate the septage treatment system in the following manner:
  - (i) maintain a minimum of 300mm freeboard in the treatment pond(s) so that overflow does not occur as a result of either wave action alone or wave action coupled with incident or inflowing stormwater;
  - (ii) all stormwater is diverted away from the lagoons to prevent erosion of lagoon embankments; and
  - (iii) there is no discernible leakage from the lagoons.



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#### LIQUID CHEMICAL STORAGE

- W6(a) The licensee shall store environmentally hazardous chemicals including, but not limited to, fuel, oil or other hydrocarbons (where the total volume of each substance stored on the premises exceeds 250 litres) within low permeability (10<sup>-9</sup> metres per second or less) compound(s) designed to contain not less than 110% of the volume of the largest storage vessel or inter-connected system, and at least 25% of the total volume of substances stored in the compound.
- W6(b) The compound(s) described in part (a) to this condition shall:
  - (i) be graded or include a sump to allow recovery of liquid;
  - (ii) be chemically resistant to the substances stored;
  - (iii) include valves, pumps and meters associated with transfer operations wherever practical. Otherwise the equipment shall be adequately protected (e.g. bollards) and contained in an area designed to permit recovery of chemicals released following accidents or vandalism;
  - (iv) be designed such that jetting from any storage vessel or fitting will be captured within the bunded area [as per Australian Standard 1940-2004 Section 5.8.3 (h)];
  - (v) be designed such that chemicals which may react dangerously if they come into contact, are in separate bunds in the same compound or in different compounds; and
  - (vi) be controlled such that the capacity of the bund is maintained at all times (e.g. regular inspection and pumping of trapped uncontaminated rain water).
- W6(c) The licensee shall immediately remove and dispose of any liquid resulting from spills or leaks of chemicals including fuel, oil or other hydrocarbons, whether inside or outside the low permeability compound(s).
- W6(d) The licensee shall keep a record of any incident that included the loss of chemicals including fuel, oil or other hydrocarbons and provide a summary of each incident in the annual report required in condition G6(a).

#### **SOLID WASTE CONTROL CONDITIONS**

#### DISPOSAL OF SLUDGE MATERIAL FROM SEPTAGE PONDS

- S1(a) The licensee shall inform the Director no less than 14 days prior to the desludging of any septage ponds at the premises.
- S1(b) The licensee shall dispose of sludge from the septage ponds in accordance with the Western Australian Guidelines for Biosolids Management, December 2012.



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#### MANAGEMENT OF BIOSOLIDS

S2 The licensee shall remove accumulated biosolids from the truck wash separator on a daily basis for incorporation into the green waste processing or disposal into the landfill cell.

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

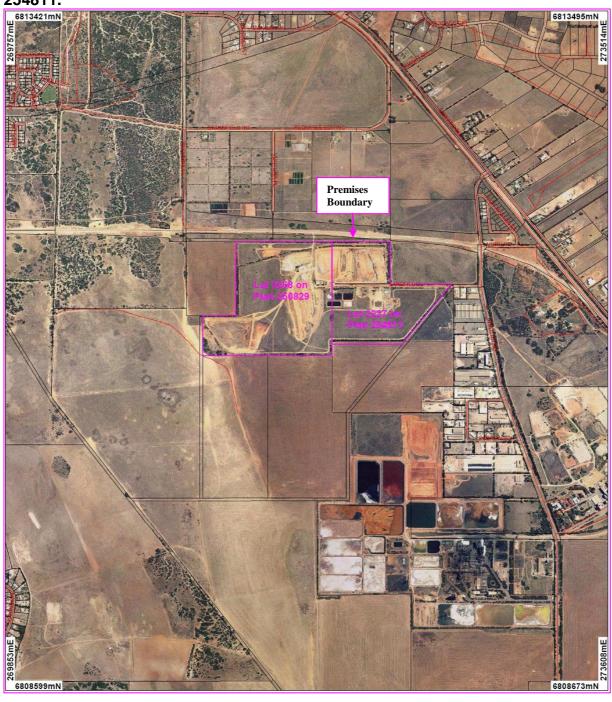
Date of Issue: Thursday, 28 November 2013



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#### **ATTACHMENT 1**

Meru Waste Disposal Facility – Lot 2268 on Plan 250829 and Lot 2227 on Plan 254811.





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ATTACHMENT 2	
SECTION A	
LICENCE DETAILS	
Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period:to	<u> </u>
STATEMENT OF COMPLIANCE WITH LICENCE Completed with within the appropriate box)	
	No ☐ Please proceed to Section B
Each page must be initialed by the person(s) who signs S compliance report	ection C of this annual audit
	INITIAL:

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#### **SECTION B**

Please use a separate page for each licence condition that was not complied with.					
a) Licence condition not complied with?					
b) Date(s) when the non compliance occurred, if applicable?					
c) Was this non compliance reported to DER?					
☐ Yes ☐ Reported to DER verbally Date	□ No				
☐ Reported to DER in writing Date					
d) Has DER taken, or finalised any action in relation to the non compliance?					
e) Summary of particulars of compliance non compliance, and what	was the environmental impact?				
f) If relevant, the precise location where the non compliance occurred (attach map or diagram)					
g) Cause of non compliance					
h) Action taken or that will be taken to mitigate any adverse effects of the non compliance					
i) Action taken or that will be taken to prevent recurrence of the non compliance					

Licence Issue Date: Thursday, 28 November 2013 Commencement Date: Thursday, 12 December 2013 INITIAL:\_\_\_\_



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#### SECTION C

#### SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report may only be signed by a person(s) with legal authority to sign it. The ways in which the Annual Audit Compliance Report 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 Annual Audit Compliance Report 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:
	by the individual licence holder, or
an individual	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	by the principal executive officer of the licensee; or
unincorporated company	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	by affixing the common seal of the licensee in accordance with the Corporations Act 2001; 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	by the principal executive officer of the licensee; or
(other than a local government)	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	by the chief executive officer of the licensee; or
a local government	by affixing the seal of the local government.

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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)	



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#### **ATTACHMENT 3**

#### **Premises bore locations**

