

**WESTERN AUSTRALIA**  
**DEPARTMENT OF ENVIRONMENT REGULATION**

*Environmental Protection Act 1986*

**AMENDED LICENCE**

**LICENCE NUMBER: L6249/1991/8**

**FILE NUMBER: DER2013/001030**

**LICENSEE AND OCCUPIER:**

Water Corporation  
629 Newcastle Street  
LEEDERVILLE WA 6007

**NAME AND LOCATION OF PREMISES:**

Karratha No. 2 Wastewater Treatment Plant  
Reserve 36633, Lot 122 Gap Ridge, Millstream-Dampier Road  
KARRATHA WA 6714  
(as depicted in Attachment 1)

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**Environmental Protection Regulations 1987**

**CLASSIFICATION(S) OF PREMISES:**

Category 54: Sewage facility

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**COMMENCEMENT DATE OF LICENCE:** Friday, 1 November 2013

**EXPIRY DATE OF LICENCE:** Wednesday, 31 October 2018

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**CONDITIONS OF LICENCE:**

As described and attached:  
DEFINITION(S) (11)  
GENERAL CONDITION(S) (4)  
WATER POLLUTION CONTROL CONDITION(S) (11)  
SOLID WASTE CONTROL CONDITION(S) (2)  
ATTACHMENT(S) (3)

Date signed: 12 June 2014

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

Date of Issue: Thursday, 24 October 2013  
Date of Last Amendment: Thursday, 12 June 2014

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**PREAMBLE**

**Applicability**

This licence is issued to the Water Corporation for the Karratha Number 2 Wastewater Treatment Plant, located at Reserve 36633, Lot 122 Gap Ridge, Millstream-Dampier Road, Karratha. This treatment plant treats wastewater to a secondary standard and consists of two series of primary and secondary treatment ponds. Treated wastewater is either reused by the Shire of Roebourne to reticulate ovals in Karratha, reused by third parties for beneficial use off-site, is contained within evaporation ponds or is disposed of to an irrigation area on-site. This licence comprises conditions relating to, but not necessarily limited to, the following activities:

- sewage treatment; and
- disposal of treated wastewater.

This facility is prescribed within Schedule 1 of the *Environmental Protection Regulations 1987* as outlined in Table 1.

**Table 1: Category under which Karratha No. 2 Wastewater Treatment Plant is prescribed**

<i>Category number</i>	<i>Category name</i>	<i>Description</i>
54	Sewage facility	Premises – (a) on which sewage is treated (excluding septic tanks) (b) from which treated sewage is discharged onto land into waters.

**Emergency, Accident or Malfunction**

The licensee should inform the CEO as soon as practicable of any discharge of waste which has occurred as a result of an emergency, accident, malfunction or extreme weather conditions otherwise than in accordance with any condition of this licence, and has caused or is likely to cause pollution.

**Alteration to Premises**

Prior to making any significant alterations to the premises which may affect the air, water or noise emissions from the premises, the licensee must submit a proposal to the CEO accompanied by supporting information and plans which allow the environmental impact of that change to be assessed.

**Other Legal Requirements**

The licensee should be aware that these conditions do not exempt the premises/licensee from other statutory obligations under the *Environmental Protection Act 1986*, or any other Acts.

This includes the licensee's obligations under the:

- *Environmental Protection Regulations 1987*;
- *Environmental Protection (Noise) Regulations 1997*;
- *Environmental Protection (Controlled Waste) Regulations 2004*;
- *Environmental Protection (Unauthorised Discharges) Regulations 2004*; and
- *Environmental Protection (Clearing of Native Vegetation) Regulations 2004*.

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**CONDITIONS OF LICENCE**

**DEFINITIONS**

In these conditions of licence:

'Australian Standard 5667' means the most recent version and relevant part of AS/NZS 5667;

'biosolids' means a product of waste water treatment plant sludge that has undergone further treatment to reduce disease causing pathogens and volatile organic matter significantly, resulting in a stabilised product suitable for beneficial use;

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

'CEO' for the purpose of correspondence means-

Manager Licensing (North West)  
Department of Environment Regulation  
PO Box 835  
KARRATHA WA 6714  
Telephone: (08) 9182 2000  
Facsimile: (08) 9144 1118  
Email: industryregpilbara@der.wa.gov.au

'cfu/100mL' means colony forming units per 100mL';

'extreme rainfall event' means a one in ten year rainfall event of 72 hours duration;

'inform' means inform by telephone, email, letter or facsimile;

'mg/L' means milligrams per litre;

'mL' means millilitre;

'NATA' means National Association of Testing Authorities; and

'sludge' means the settled solids collected from the base of the treatment ponds.

**GENERAL CONDITIONS**

**REPORTING REQUIREMENTS**

1 The licensee shall provide to the CEO by **1 September** each year, an Annual Monitoring Report containing data collected between **1 July** the previous year to **30 June** in that year. The report shall contain:

- (i) monitoring data or other collected data required by any condition of this licence;

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- (ii) an explanation of the monitoring results with respect to the environmental impacts of the project;
- (iii) a summary of the number and type of complaints received; and
- (iv) a summary of changes on the premises which may change monitoring results or emissions from the premises, such as site boundaries, location of groundwater monitoring bores, surface drainage channels, on-site or off-site impacts or pollution and alterations that require approval.

- 2 The licensee shall by **1 September** in each year, provide to the CEO an Annual Audit Compliance Report in the form in Attachment 3 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 July** the previous year and ending on **30 June** in that year.

**COMPLAINTS**

- 3 The licensee shall keep a written record of all complaints received at the premises. The record must be dated and provide the following information (if known):
- (i) name and address of complainant(s);
  - (ii) date and time of complaint;
  - (iii) location about which the complaint was made;
  - (iv) general description of the nature of complaint;
  - (v) wind direction, wind speed and temperature at the time of the complaint;
  - (vi) likely source of the reported problem; and
  - (vii) action taken in response to the complaint.

This record, or copies thereof, shall be made available to the CEO on request.

4 **ODOUR EMISSIONS**

The licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the premises.

**WATER POLLUTION CONTROL CONDITIONS**

**MAINTENANCE OF WASTEWATER TREATMENT PONDS**

- 5 The licensee shall manage the wastewater treatment ponds in a manner such that:
- (i) stormwater runoff resulting from site drainage shall be prevented from entering the wastewater treatment ponds or causing erosion of the outer pond embankments;
  - (ii) overtopping of the ponds shall not occur, except as a result of an extreme rainfall event;
  - (iii) there is no discernible seepage loss from the treatment ponds; and
  - (iv) vegetation and debris (emergent or otherwise) is prevented from growing or accumulating in the pond wastewaters or on the inner pond embankments.

**FLOW MONITORING DEVICE AND SAMPLING POINT**

- 6 The licensee shall:
- (i) maintain suitable devices for measuring cumulative volumes of effluent discharged from the treatment plant to the irrigation area and reuse standpipe.
  - (ii) ensure the devices referred to in part (i) of this condition are validated and calibrated by a NATA accredited person. The monthly flow results shall be

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- submitted as part of the Annual Monitoring Report in accordance with condition 1; and
- (iii) maintain a sampling point in the outlet pipe from the treatment plant that is representative of the wastewater discharged to the irrigation area and reuse standpipe and can be easily sampled for the discharge wastewater.

### TREATED WASTEWATER MONITORING PROGRAM

- 7 The licensee shall at the frequencies stated in column 2 of Table 2, collect and have analysed representative wastewater samples from the location listed in column 1 of Table 2, and have them analysed for the parameters listed in column 3 of Table 2.

**Table 2: Treated wastewater monitoring program.**

Column 1	Column 2	Column 3
Monitoring Site	Frequency	Parameters to be Monitored
Treatment plant outlet pipe	3 monthly	pH, Total Suspended Solids, Total Dissolved Solids, Filtered 5-day biochemical oxygen demand, Total Nitrogen, Ammonium - Nitrogen, Nitrate + Nitrite - Nitrogen, Total Phosphorus and <i>E. Coli</i> .

*With the exception of pH and E. Coli, all measurements are to be reported in milligrams per litre (mg/L).*

- 8 The results of the monitoring undertaken in accordance with condition 7 shall be submitted as part of the Annual Monitoring Report in accordance with condition 1.
- 9 The licensee shall compare the results of the water quality monitoring required by condition 7, to the targets stated in column 2 of Table 3, for the parameters in column 1 of Table 3.

**Table 3: Effluent quality criteria.**

Column 1	Column 2
Parameter	Target Level
Total Nitrogen (mg/L)	20-50
Total Phosphorus (mg/L)	6-12
Filtered 5-day biochemical oxygen demand (mg/L)	20-30
pH	6.5-8.5
Total suspended solids (mg/L)	25-40
E Coli (cfu100mL)	10 <sup>5</sup> -10 <sup>6</sup>

- 10 The licensee shall, in the Annual Audit Compliance Report required by condition 2, provide notification to the CEO of any results which have exceeded the target levels specified in column 2 of Table 3 for the parameters listed in column 1 of Table 3 including proposed management measures that will ensure that discharge water quality is improved to meet target levels.

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**DISCHARGES TO LAND**

- 11 The licensee shall ensure that waste discharged to the irrigation area and reuse standpipe consists only of treated wastewater.
- 12(a) The licensee shall ensure that treated wastewater is:
- (i) stored in maturation and evaporation ponds;
  - (ii) directed to the standpipe for off-site reuse; or
  - (iii) discharged to the irrigation area shown on Attachment 2 in accordance with the approved Effluent Irrigation Plan.
- 12(b) The licensee shall, in the Annual Audit Compliance Report required by condition 2, provide notification to the CEO of any results which have exceeded the target levels specified in column 3 of Table 4 for the parameters listed in column 1 of Table 4, using the units listed in column 2 of Table 4, including proposed management measures that will ensure that discharge water quality is improved to meet target levels.

**Table 4: Waste discharge targets for discharge to land.**

<b>Column 1</b>	<b>Column 2</b>	<b>Column 3</b>
<b>Indicator</b>	<b>Unit</b>	<b>Target</b>
Total nitrogen	kg/ha/yr	480
Total phosphorus	kg/ha/yr	120

- 13 The licensee shall ensure that there is no treated wastewater runoff from the irrigation area.

**WATER SAMPLING**

- 14 The licensee shall collect and preserve all water samples in accordance with Australian Standard 5667.
- 15 The licensee shall ensure all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

**SOLID WASTE DISPOSAL CONDITIONS**

**DISPOSAL OF BIOSOLID AND OTHER RESIDUALS**

- 16(a) The licensee shall the document *Western Australian Guidelines for biosolids management*, Department of Environment and Conservation (December, 2012) or to a licensed or registered landfill facility.
- 16(b) The licensee shall dispose of collected debris, vegetation, grit or screenings from the treatment plant to a licensed or registered landfill facility.

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**WASTEWATER POND DESLUDGING**

- 17(a) The licensee shall inform the CEO no less than 14 days prior to any desludging of any wastewater treatment pond on the premises and provide the following information:
- (i) the dates that the desludging is intended to occur;
  - (ii) the method by which the wastewater treatment pond is to be desludged;
  - (iii) the proposed action to mitigate potential impact of odour emissions; and
  - (iv) the method by which the community will be advised of the desludging activities.
- 17(b) The licensee shall ensure that sludge, vegetation or debris removed from any wastewater treatment pond is immediately removed offsite or stored onsite within a hardstand area or drying bed.
- 17(c) The licensee shall ensure that the storage area referred to in part (b) of this condition is bunded to enable the containment and recovery of any liquid matter.
- 17(d) The licensee shall return liquid matter, collected in accordance with part (c) of this condition, back into the wastewater treatment plant.

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

Date of Issue: Thursday, 24 October 2013  
Date of amendment: Thursday, 12 June 2014

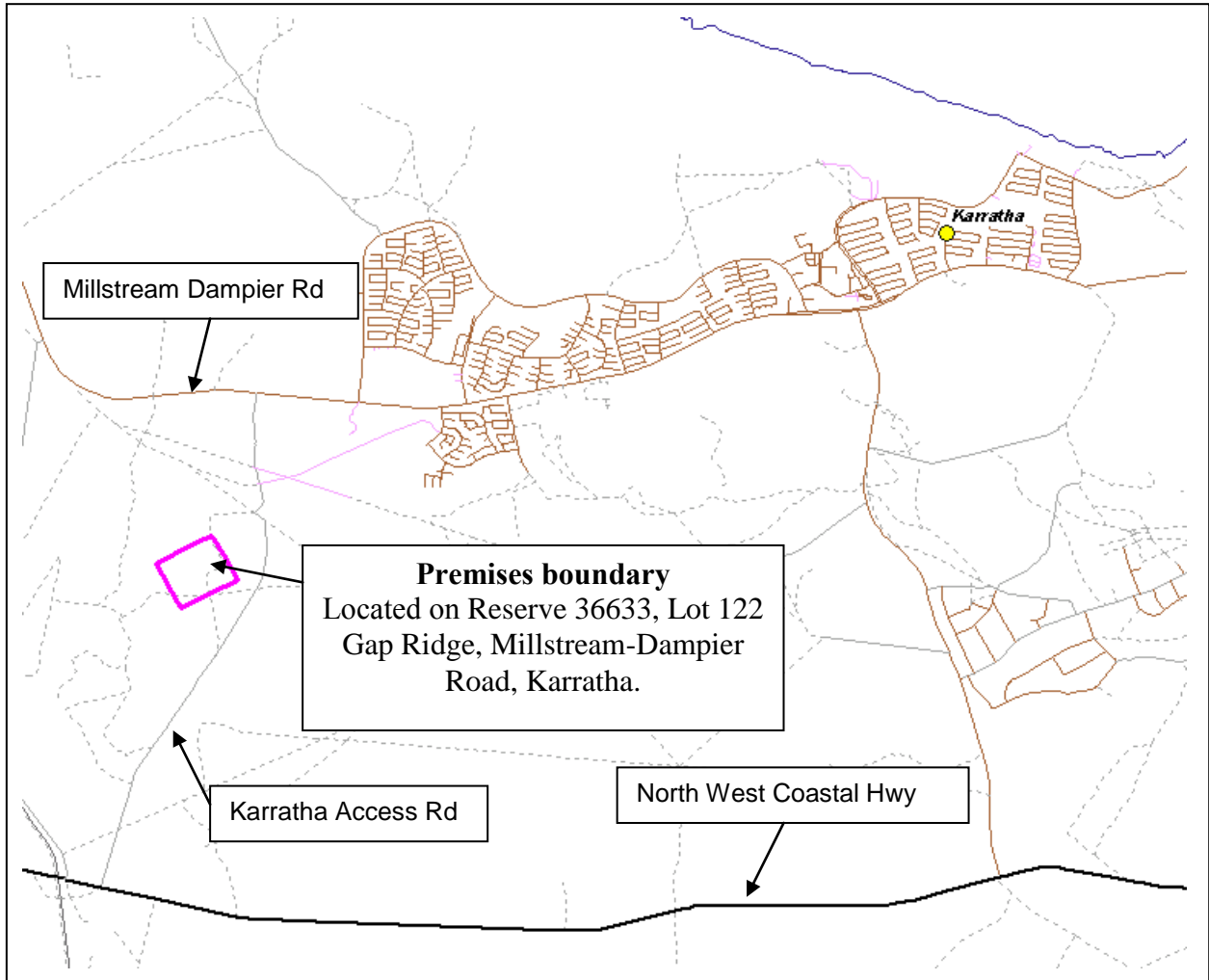
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**Attachment 1: Plan of Premises-** Location of Karratha number 2 wastewater treatment plant, located on Reserve 36633, Lot 122 Gap Ridge, Millstream-Dampier Road, Karratha.



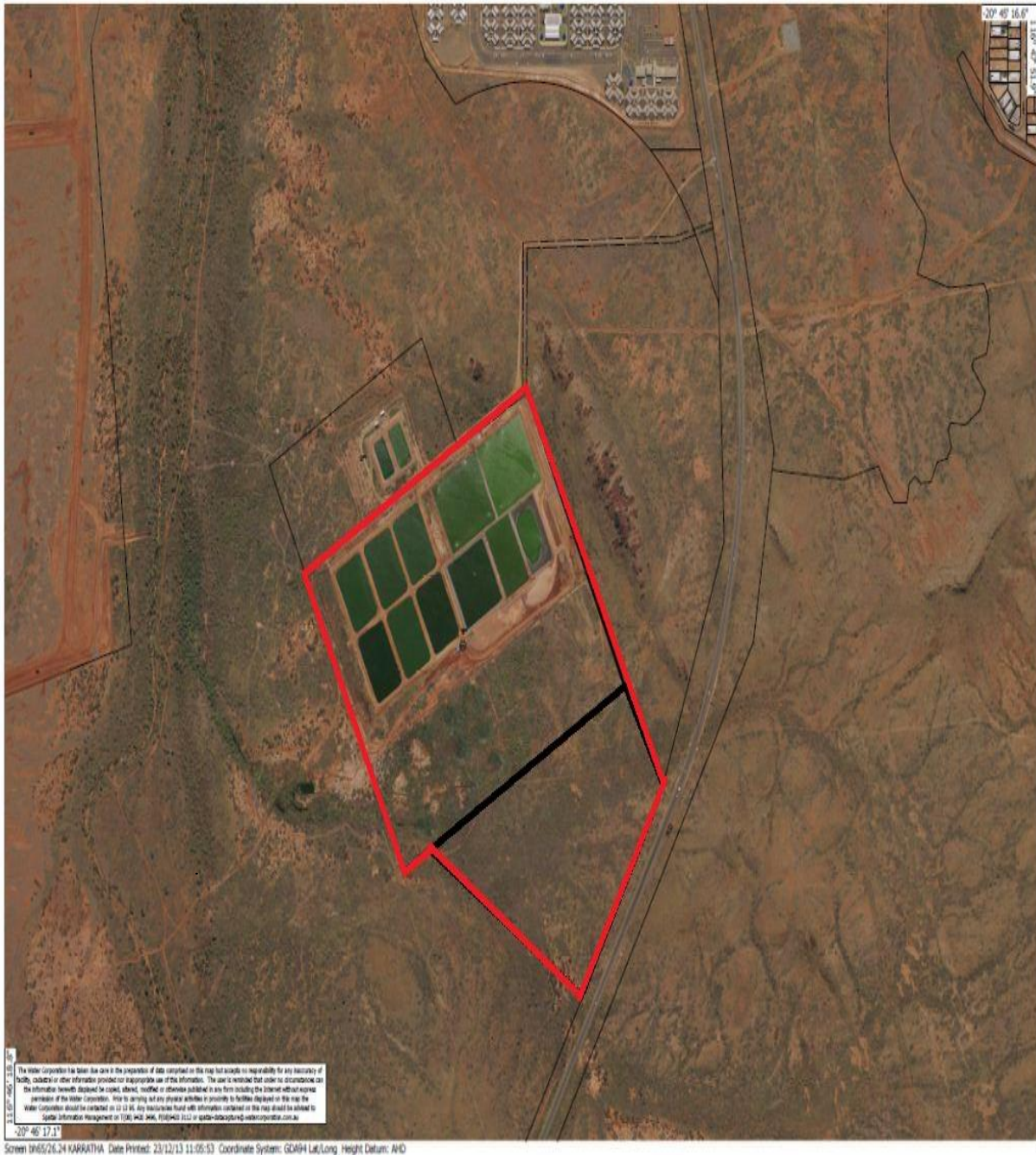


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**Attachment 2: Irrigation area.**



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**Attachment 3: Annual Audit Compliance Report**

**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:

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**SECTION B**  
**DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.**

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) <i>Date(s) when the non compliance occurred, if applicable:</i>	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____	<input type="checkbox"/> No
<input type="checkbox"/> 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 the 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:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:

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### SECTION C - SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must 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)