



Licence Number	L7329/1997/9
Licence Holder	Atlas Group Pty Ltd
ACN	009 061 063
Registered business address	501 Alexander Drive MALAGA WA 6061
File Number	2010/002636-1
Duration	10/11/2019 to 09/11/2024
Date of issue	01/11/2019
Prescribed Premises	Category 67A
Premises	Atlas Composting Facility Old Plains Road, Calingiri Legal description - Part Lot M2043 on Plan 6168 Certificate of Title Volume 1310 Folio 113 As defined by the coordinates in Schedule 1

This Licence is granted to the Licence Holder, subject to the following conditions, on 1 November 2019, by:

**A/MANAGER WASTE INDUSTRIES
REGULATORY SERVICES**

an officer delegated under section 20 of the Environmental Protection Act 1986 (WA)

Definitions and interpretation

Definitions

In this Licence, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	means an amendment granted under s.59 of the EP Act in accordance with the procedure set out in s.59B of the EP Act.
Annual Audit Compliance Report	means a report in a format as specified by the CEO (guidelines and templates are available on the Department's website).
Annual Period	means a 12 month period commencing from 1 January until 31 December.
ARI	Annual recurrence interval
AS1726:2017	means the document titled <i>Geotechnical site investigations</i> published by Standards Australia, as amended from time to time.
AS/NZS 5667.1:1998 (R2016)	means the document titled <i>Water quality – sampling guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples</i> published by Standards Australia, as amended from time to time.
AS/NZS 5667.11:1998 (R2016)	means the document titled <i>Water quality – sampling guidance on sampling of groundwaters</i> published by Standards Australia, as amended from time to time.
ASTM D5092-04(2010)e1	means the document titled <i>Standard practice for design and installation of groundwater monitoring wells</i> published by ASTM International.
Condition	means a condition to which this Licence is subject under s.62 of the EP Act.
BHC	Benzene hexachloride
Books	has the same meaning given to that term under the EP Act.

Term	Definition
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
Compost Product	means the final composted material ready for dispatch from the Premises.
Conversion Factor	means the default bulk densities shown in Appendix B Table 2 of the <i>Western Australian Government Gazette No.97, 28 June 2019</i> .
DDD	Dichloro Diphenyl Dichloroethane
DDE	Dichloro Diphenyl Dichloroethylene
DDT	Dichloro Diphenyl Trichloroethane
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.
Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Licence Holder in writing and sent to the Licence Holder's address for notifications, as described at the front of this Licence, in relation to: <ul style="list-style-type: none"> (a) compliance with the EP Act or this Licence; (b) the Books or other sources of information maintained in accordance with this Licence; or (c) the Books or other sources of information relating to Emissions from the Premises.
Discharge	has the same meaning given to that term under the EP Act.
DWER	Department of Water and Environmental Regulation.
Emission	has the same meaning given to that term under the EP Act.
Environmental Harm	has the same meaning given to that term under the EP Act.
EP Act	means the <i>Environmental Protection Act 1986 (WA)</i> .
EP Regulations	means the <i>Environmental Protection Regulations 1987 (WA)</i> .

Term	Definition
HCB	Hexachlorobenzene
Implementation Agreement or Decision	has the same meaning given to that term under the EP Act.
Inspector	means an inspector appointed by the CEO in accordance with s.88 of the EP Act.
Leachate	means liquid released by or water that has percolated through waste and which contains some of its constituents.
Licence	refers to this document, which evidences the grant of a Licence by the CEO under s.57 of the EP Act, subject to the Conditions.
Licence Holder	refers to the occupier of the premises being the person to whom this Licence has been granted, as specified at the front of this Licence.
Material Environmental Harm	has the same meaning given to that term under the EP Act.
Municipal Organic Waste	means municipal food organic waste and garden organic waste derived from domestic households.
NATA	National Association of Testing Authorities, Australia
Pasteurisation Stage	means the stage of composting whereby organic materials are treated to significantly reduce the numbers of plant and animal pathogens and plant propagules.
PCB	Polychlorinated biphenyls
Pollution	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Primary Activities	refers to the Prescribed Premises activities listed on the front of this Licence as described in Schedule 2, at the locations shown in Schedule 1.
Residual Solid Waste	means solid wastes comingled with food organic and garden organic waste material that is unsuitable for the final Compost Product.

Term	Definition
Serious Environmental Harm	has the same meaning given to that term under the EP Act.
Unreasonable Emission	has the same meaning given to that term under the EP Act.
Waste	has the same meaning given to that term under the EP Act.

Interpretation

In this Licence:

- (a) the words 'including', 'includes' and 'include' will be read as if followed by the words 'without limitation';
- (b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;
- (c) where tables are used in a Condition, each row in a table constitutes a separate Condition;
- (d) any reference to an Australian or other standard, guideline or code of practice in this Licence means the version of the standard, guideline or code of practice in force at the time of granting of this Licence and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the Licence; and
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act.

Conditions

Waste acceptance and throughput restrictions

1. The Licence Holder must only accept Municipal Organic Waste and other organic waste restricted to sawdust, straw and hay onto the Premises.
2. The Licence Holder must not produce more than 50,000 tonnes of Compost Product per Annual Period.
3. The Licence Holder must monitor and record the volumes of incoming and outgoing Waste and outgoing Product at the Premises for the parameters stipulated in Column 1 of Table 2, using the units specified in Column 2 of Table 2 and at the frequency specified in Column 3 of Table 2.

Table 2: Monitoring of inputs and outputs

Column 1	Column 2	Column 3
Parameter	Units	Frequency
Waste inputs – Municipal Organic Waste	Tonnes - as measured by certified load scales (e.g. weighbridge)	Each load arriving at the Premises
Waste outputs – Residual Solid Waste	OR	Each load leaving the Premises
Compost Product outputs	m ³ and calculated tonnes – a Conversion Factor must be used to calculate tonnage.	Each load leaving the Premises

4. The Licence Holder must not:
 - (a) dispose of Residual Solid Waste at the Premises; and
 - (b) store more than 15 m³ of screened Residual Solid Waste at the Premises.

Waste processing

5. The Licence Holder must store and process all Municipal Organic Waste on the Compost Processing Area depicted in the Premises layout map in Schedule 1.
6. The Licence Holder must store all screened Residual Solid Waste and untested Compost Product on the Compost Storage Area depicted in the Premises layout map in Schedule 1.
7. The Licence Holder must direct and contain all Leachate to the Retention Basin depicted in the Premises layout map in Schedule 1.
8. The Licence Holder must maintain a freeboard of at least 300mm within the Retention Basin at all times.
9. The Licence Holder must manage composting windrows such that:
 - (a) Leachate and contaminated storm water is only applied during the Pasteurisation Stage;
 - (b) the core temperature of the composting windrows are maintained between 55°C and 65°C for a period of at least three consecutive days;

- (c) moisture levels in the composting windrows are maintained between 40 to 65%; and
- (d) windrows are turned regularly to ensure aerobic conditions are maintained.

Infrastructure and equipment

10. The Licence Holder must ensure that the infrastructure and equipment specified in Column 1 of Table 3 is maintained in good working order and operated in accordance with the requirements specified in Column 2 of Table 3.

Table 3: Infrastructure and equipment controls table

	Column 1	Column 2
	Site infrastructure and equipment	Operational requirements
1	Hardstand for composting windrows and stockpiling	<p>Compacted and graded with a fall that prevents pooling and directs leachate runoff to the retention basin.</p> <p>Capable of accommodating the weight and movement of vehicles and equipment used on the hardstand, without compromising the integrity of the hardstand or altering drainage characteristics.</p>
2	Earthen bunding	<p>Capable of directing all leachate and contaminated stormwater to the retention basins specified in Row 3.</p> <p>Constructed to a height of 3m.</p>
3	Clay lined leachate and storm water retention basin	<p>Maintained with a minimum freeboard of 300mm.</p> <p>Capable of retaining the inflow received from a 100 year ARI, 72 hours duration rainfall event.</p>
4	Composting aeration system	<p>Mobile mechanical windrow turning machinery capable of aerating composting windrows to prevent anaerobic conditions.</p>

	Column 1	Column 2
	Site infrastructure and equipment	Operational requirements
5	Screening units	Capable of removing unsuitable Residual Solid Waste materials from the final Compost Product.
6	Groundwater monitoring bores	Installed to provide representative groundwater samples from up and downgradient of the Compost Processing Area and Compost Storage Area depicted in the Premises layout map in Schedule 1.

Specified Actions

- 11.** The Licence Holder must submit to the CEO by at least 3 months prior to recommencing operations, a report by a suitably qualified Geotechnical Engineer, or equivalent, containing permeability testing results for each:
- (a) hardstand used for compost processing;
 - (b) hardstand used for untested Compost Product and Residual Solid Waste storage; and
 - (c) retention basin used for Leachate containment.
- 12.** The Licence Holder must complete by at least three months prior to the recommencement of operations:
- (a) installation of three groundwater monitoring bores constructed in accordance with the requirements set out in Table 4; and
 - (b) submission of a monitoring report to the CEO that:
 - (i) confirms the groundwater monitoring bores are installed in accordance with Condition 12(a);
 - (ii) contains bore logs for the installed groundwater monitoring bores;
 - (iii) contains permeability testing results for each intercepted soil layer; and
 - (iv) contains the results of one groundwater monitoring event conducted in accordance with the specifications set out in Table 5.

Table 4: Groundwater monitoring bore installation requirements

Column 1	Column 2	Column 3
Monitoring bore designation	Location	Construction specification
MB01	Hydraulically upgradient of the Compost Processing Area and Compost Storage Area	(i) Installed in accordance with ASTM D5092/5092M-16; (ii) Allowing for the representative sampling of groundwater from the superficial aquifer; (iii) Surveyed to allow the ground level and groundwater level (mAHD and mbgl) to be accurately determined; and (iv) Logged in accordance with AS1726:2017 for the unified classification system for soils.
MB02		
MB03		

Table 5: Groundwater monitoring event requirements

Column 1	Column 2	Column 3	Column 4	Column 5
Sampling location	Parameter	Units	Sampling method	Analysis method
MB01 MB02 MB03	Standing water level	mAHD and mbgl	AS/NZS 5667.1:1998 (R2016) AS/NZS 5667.11:1998 (R2016)	In-field non-NATA accredited analysis
	pH	-		
	Electrical conductivity	ms/cm		
	Redox potential	Eh		
	Biological oxygen demand (BOD ₅)	mg/L		Submission to a laboratory with current NATA accreditation for the parameter being measured.
	Total dissolved solids (TDS)			
	Ammonia (as nitrogen)			
	Nitrite (as nitrogen)			
	Nitrate (as nitrogen)			
	Total kjeldhal nitrogen (TKN)			

Column 1	Column 2	Column 3	Column 4	Column 5
Sampling location	Parameter	Units	Sampling method	Analysis method
	Total nitrogen			
	Total phosphorus			
	Dissolved metals (arsenic, cadmium, chromium, copper, lead, mercury nickel potassium, selenium, zinc)			
	Total metals (aluminium, iron)			

Product testing

13. The Licence Holder must undertake final Compost Product sampling:
- for the parameters specified in Column 1 of Table 6;
 - in the units specified in Column 2 of Table 6;
 - at the frequencies stated in Column 3 of Table 6;
 - in accordance with the requirements of AS 4454:2012; and
 - by submission to a laboratory with current NATA accreditation for the parameter being measured.

Table 6: Compost Product sampling requirements

Column 1	Column 2	Column 3
Parameters	Units (dry weight basis)	Frequency
Arsenic	mg/kg	Prior to any Compost Product being taken off the Premises
Cadmium		
Chromium		
Copper		
Lead		
Mercury		
Nickel		

Column 1	Column 2	Column 3
Parameters	Units (dry weight basis)	Frequency
Selenium		
Zinc		
DDT / DDD / DDE		
Aldrin		
Dieldrin		
Chlordane		
Heptachlor		
HCB		
Lindane		
BHC		
PCB		
Glass, metal and rigid plastic	% w/w	

Record-keeping

- 14.** The Licence Holder must record the number and details of any complaints received by the Licence Holder relating to its obligations under this Licence and its compliance with Part V of the EP Act at the Premises, and any action taken by the Licence Holder in response to the complaint. Details of complaints must include:
- an accurate record of the concerns or issues raised, for example a copy of any written complaint or a written note of any verbal complaints made;
 - the name and contact details of the complainant, if provided by the complainant;
 - the date of the complaint; and
 - the details and dates of the actions taken by the Licence Holder in response to the complaints.
- 15.** The Licence Holder must maintain accurate and auditable Books including the following records, information, reports and data required by this Licence:
- the calculation of fees payable in respect of this Licence;
 - the specified actions conducted in accordance with Condition 11 and 12 of this Licence;

- (c) the maintenance of infrastructure required to ensure that it is kept in good working order in accordance with Condition 10 of this Licence;
- (d) monitoring undertaken in accordance with Condition 3 of this Licence;
- (e) complaints received under Condition 14 of this Licence; and

In addition, the Books must:

- (f) be legible;
- (g) if amended, be amended in such a way that the original and subsequent amendments remain legible and are capable of retrieval;
- (h) be retained for at least 3 years from the date the Books were made; and
- (i) be available to be produced to an Inspector or the CEO.

Reporting

- 16.** The Licence Holder must provide written notification to the CEO of their intent to recommence operations three months prior to the recommencement of the same.
- 17.** The Licence Holder must submit to the CEO an Annual Environmental Report for the preceding Annual Period by no later than 1 March each year including the following information:
 - (a) The Waste and Product Inputs and Outputs monitoring required by Condition 3;
 - (b) Compost Product testing required by Condition 13;
 - (c) The records of any complaints received required by Condition 14; and
 - (d) The details of any maintenance works carried out on the infrastructure listed in Table 3.
- 18.** The Licence Holder must submit to the CEO, no later than 1 March, an Annual Audit Compliance Report indicating the extent to which the Licence Holder has complied with the Conditions in this Licence for the preceding Annual Period.
- 19.** The Licence Holder must comply with a Department Request, within 14 days from the date of the Department Request or such other period as agreed to by the Inspector or the CEO.

Schedule 1: Maps

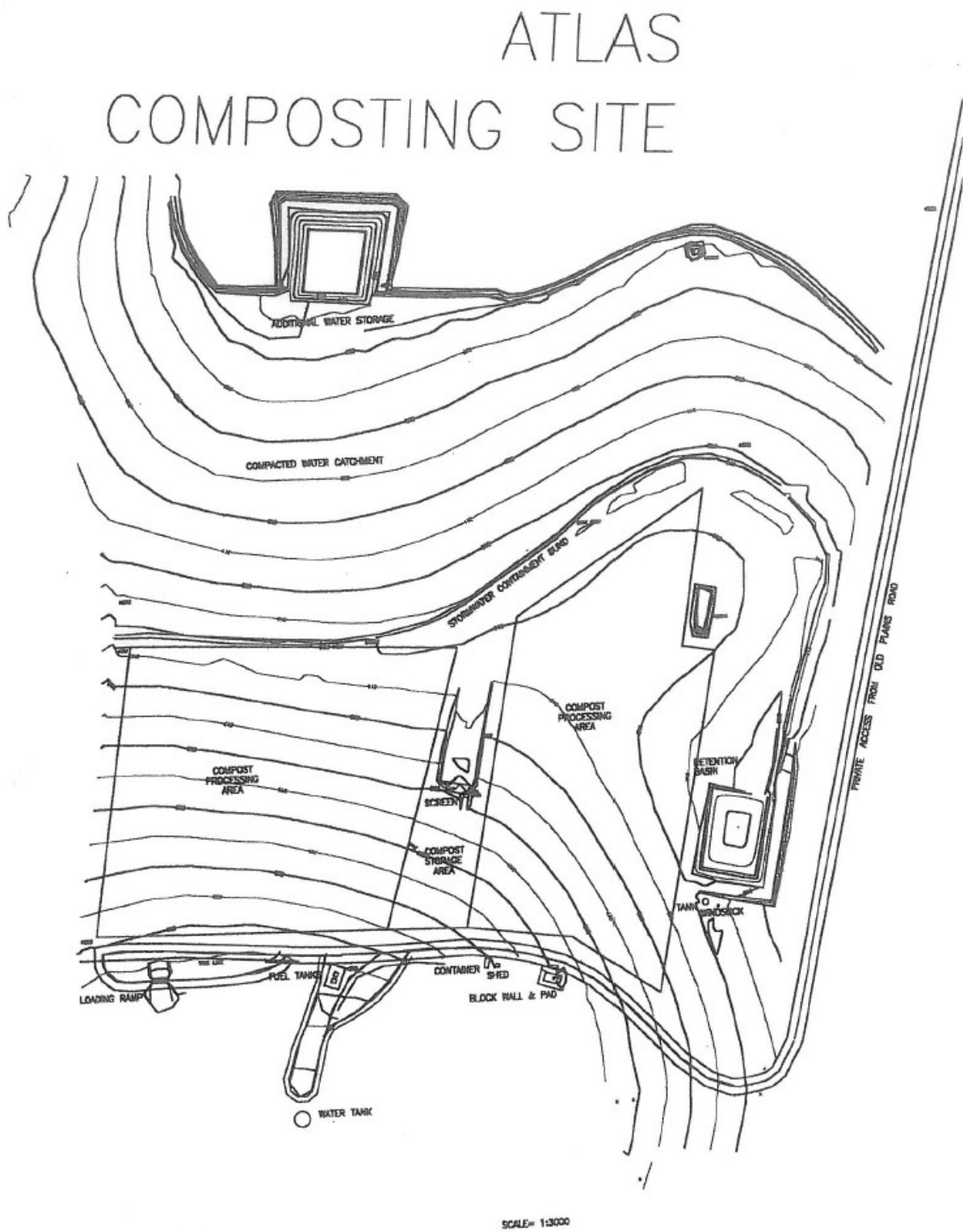
Premises map

The Premises is shown in the map below.



Premises layout map

The layouts of key infrastructure and equipment are shown in the map below.



Premises boundary

The Premises boundary is defined by the coordinates in Table 7.

Table 7: Premises boundary coordinates in MGA 94 Zone 50

Easting	Northing
<i>436675.53028</i>	<i>6548451.27261</i>
<i>436760.11618</i>	<i>6548171.68595</i>
<i>436735.60666</i>	<i>6547878.36497</i>
<i>436908.19773</i>	<i>6547852.68128</i>
<i>436994.32252</i>	<i>6547808.44304</i>
<i>437016.08162</i>	<i>6547759.24264</i>
<i>437093.00615</i>	<i>6547678.84506</i>
<i>437178.79979</i>	<i>6547847.76610</i>
<i>437261.62977</i>	<i>6548470.48002</i>

Schedule 2: Primary Activities

At the time of assessment, Emissions and Discharges from the following Primary Activities were considered in the determination of the risk and related Conditions for the Premises.

The Primary Activities are listed in Table 8.

Table 8: Primary Activities

Primary Activity	Premises production or design capacity
Category 67A – Compost manufacturing and soil blending premises on which organic material (excluding silage) or waste is stored pending processing, mixing, drying or composting to produce commercial quantities of compost of blended soils.	50,000 tonnes per annum

Infrastructure and equipment

The Primary Activity infrastructure and equipment situated on the Premises is listed in Table 9.

Table 9: Infrastructure and equipment

Infrastructure or Equipment	Premises Layout Plan reference (Schedule 1)
Hardstand for composting windrows constructed of compacted in-situ soils	Compost processing area
Hardstand for Compost Product stockpiling constructed of compacted in-situ soils	Compost storage area
Diesel powered screening unit	Screen
Hydraulic screening unit	
3m high earthen bund wall for containment and redirection of stormwater	Stormwater containment bund
Stormwater runoff and leachate retention basin	Retention basin
Mechanical windrow turner	N/A (mobile machinery)

Premises layout

The Primary Activity infrastructure and equipment is set out on the Premises in accordance with the Premises layout map in Schedule 1.

Explanatory notes

These explanatory notes do not form part of this Licence.

Defined terms

Definition of terms used in this Licence can be found at the start of this Licence. Terms which are defined have the first letter of each word capitalised throughout this Licence.

Department of Water and Environmental Regulation

The Department of Water and Environmental Regulation (DWER) is established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V, Division 3 of the *Environmental Protection Act 1986 (WA)* (EP Act). The Department also monitors and audits compliance with licences, takes enforcement action and develops and implements licensing and industry regulation policy.

Licence

Section 56 of the EP Act provides that an occupier of Prescribed Premises commits an offence if Emissions are caused or increased, or permitted to be caused or increased, or Waste, noise, odour or electromagnetic radiation is altered, or permitted to be altered, from Prescribed Premises, except in accordance with a works approval or licence.

Categories of Prescribed Premises are defined in Schedule 1 of the *Environment Protection Regulations 1987 (WA)* (EP Regulations).

This Licence does not authorise any activity which may be a breach of the requirements of another statutory authority including, but not limited to the following:

- conditions imposed by the Minister for Environment under Part IV of the EP Act;
- conditions imposed by DWER for the clearing of native vegetation under Part V, Division 2 of the EP Act;
- any requirements under the *Waste Avoidance and Resource Recovery Act 2007*;
- any requirements under the *Environmental Protection (Controlled Waste) Regulations 2004*; and
- any other requirements specified through State legislation.

It is the responsibility of the Licence Holder to ensure that any action or activity referred to in this Licence is permitted by, and is carried out in compliance with, other statutory requirements.

The Licence Holder must comply with the Licence. Contravening a Licence Condition is an offence under s.58 of the EP Act.

Responsibilities of a Licence Holder

Separate to the requirements of this Licence, general obligations of Licence Holders are set out in the EP Act and the regulations made under the EP Act. For example, the Licence Holder must comply with the following provisions of the EP Act:

- the duties of an occupier under section 61; and
- 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 (s.53).

Strict penalties apply for offences under the EP Act.

Reporting of incidents

The Licence Holder has a duty to report to DWER all discharges of waste that have caused or are likely to cause Pollution, Material Environmental Harm or Serious Environmental Harm, in accordance with s.72 of the EP Act.

Offences and defences

The EP Act and its regulations set out a number of offences, including:

- Offence of emitting an Unreasonable Emission from any Premises under s.49.
- Offence of causing Pollution under s.49.
- Offence of dumping Waste under s.49A.
- Offence of discharging Waste in circumstances likely to cause Pollution under s.50.
- Offence of causing Serious Environmental Harm (s.50A) or Material Environmental Harm (s.50B).
- Offence of causing Emissions which do not comply with prescribed standards (s.51).
- Offences relating to Emissions or Discharges under regulations prescribed under the EP Act, including materials discharged under the *Environmental Protection (Unauthorised Discharges) Regulations 2004 (WA)*.
- Offences relating to noise under the *Environmental Protection (Noise) Regulations 1997 (WA)*.

Section 53 of the EP Act provides that a Licence Holder commits an offence if Emissions are caused, or altered from a Prescribed Premises unless done in accordance with a Works Approval, Licence or the requirements of a Closure Notice or an Environmental Protection Notice.

Defences to certain offences may be available to a Licence Holder and these are set out in the EP Act. Section 74A(b)(iv) provides that it is a defence to an offence for causing Pollution, in respect of an Emission, or for causing Serious Environmental Harm or Material Environmental Harm, or for discharging or abandoning Waste in water to which the public has access, if the Licence Holder can prove that an Emission or Discharge occurred in accordance with a Licence.

This Licence specifies the Emissions and Discharges, and the limits and Conditions which must be satisfied in respect of Specified Emissions and Discharges, in order for the defence to offence provision to be available.

Authorised Emissions and Discharges

The Specified and General Emissions and Discharges from Primary Activities conducted on the Prescribed Premises are authorised to be conducted in accordance with the Conditions of this Licence.

Emissions and Discharges caused from other activities not related to the Primary Activities at the Premises have not been Conditioned in this Licence. Emissions and Discharges from other activities at the Premises are subject to the general provisions of the EP Act.

Amendment of licence

The Licence Holder can apply to amend the Conditions of this Licence under s.59 of the EP Act. An application form for this purpose is available from DWER.

The CEO may also amend the Conditions of this Licence at any time on the initiative of the CEO without an application being made.

Amendment Notices constitute written notice of the amendment in accordance with s.59B(9) of the EP Act.

Duration of Licence

The Licence will remain in force for the duration set out on the first page of this Licence or until it is surrendered, suspended or revoked in accordance with s.59A of the EP Act.

Suspension or revocation

The CEO may suspend or revoke this Licence in accordance with s.59A of the EP Act.

Fees

- (i) The Licence Holder must pay an annual licence fee. Late payment of annual licence fees may result in the licence ceasing to have effect.