



<b>Licence number</b>	L8334/2009/2
<b>Licence holder</b>	Quintis Sandalwood Pty Ltd
<b>ACN</b>	060 122 698
<b>Registered business address</b>	Level 1, 87 Colin Street, WEST PERTH WA 6005
<b>DWER file number</b>	DEC10417/2
<b>Expiry date:</b>	26/07/2024
<b>Date of amendment</b>	03/09/2021
<b>Premises details</b>	The Sandalwood Factory 6 Down Road, DROME WA 6330 Legal description - Lot 6 on Diagram 85134 and part of lot 500 on Diagram 100636 Certificate of Titles: Volume 1976 Folio 490 and Volume 2195 Folio 681 As defined by the coordinates in Schedule 1

<b>Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)</b>	<b>Assessed production capacity</b>
Category 67 - Fuel burning: premises on which gaseous, liquid or solid fuel is burnt in a boiler for the supply of steam or in power generation equipment.	2,650 kg/hr of wood chips 466kg/hr of recycled oil

This revised licence is granted to the licence holder, subject to the attached conditions, on 03 September 2021, by:

**Manager, Process Industries**

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

## Licence history

Date	Reference number	Summary of changes
12/07/2012	L8334/2009/2	Licence reissued
20/02/2014	L8334/2009/2	Licence amended to the REFIRE format
29/04/2016	L8334/2009/2	Licence expiry date extended to 26/07/2024
04/09/2021	L8334/2009/2	Licence holder-initiated amendment to allow the installation and operation of a new recycled oil-fired boiler. CEO initiated changes to update the licence to the current format and updated licence holder name.

## Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (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:
- (e) if dated, refers to that particular version; and
- (f) if not dated, refers to the latest version and therefore may be subject to change over time;
- (g) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (h) unless specified otherwise, all definitions are in accordance with the EP Act.

**NOTE:** This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

## Licence conditions

The licence holder must ensure that the following conditions are complied with:

### Infrastructure and equipment

1. The licence holder must install the infrastructure and/or equipment:
  - (a) in accordance with the corresponding design and installation requirements; and
  - (b) at the corresponding infrastructure location;
 as set out in Table 1.

**Table 1: Design and installation requirements**

Infrastructure	Design and installation requirements	Infrastructure location
400 kW waste oil fired boiler (Marshall)	Model 3FRGS400-1200-10G-HLG or equivalent. To be compliant with AS 1228:2016 Fitted with a waste gas exhaust stack that has a stack height of at least 11m above ground level and is at least 3m above the nearest roof line Placed on a bunded hard stand that prevents any hydrocarbon spills from entering the environment.	A3 on Figure 2 of Schedule 1

2. The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

**Table 2: Infrastructure and equipment operational requirements**

Site infrastructure and equipment	Operational requirement	Infrastructure Location
Fixed combustion grate 6 MW wood fired water tube boiler with multi-element cyclone.	Only to be fueled by wood chips as specified in condition 2. Waste gases to be treated by a multi-element cyclone prior to discharge to atmosphere via a stack that is at least 24m above ground level (A1)	A1 on Figure 2 of Schedule 1
4 MW waste oil fired water tube boiler	Only to be fueled by waste oil as specified in condition 3. Waste gases to be discharged to atmosphere from a stack that is at least 7m above ground level (A2)	A2 on Figure 2 of Schedule 1
400 kW waste oil fired boiler (Marshall)	Only to be fueled by waste oil as specified in condition 3. Waste gases to be discharged to atmosphere from a stack that has a stack height of at least 11m above ground level and at least 3m above the nearest roof line (A3)	A3 on Figure 2 of Schedule 1
Storage of waste oil	To be stored within a tank that is compliant with AS 1940:2017	WO on Figure 2 of Schedule 1
Clay lined evaporation	May only accept wastewater from the cooling	EP on Figure 2 of

Site infrastructure and equipment	Operational requirement	Infrastructure Location
pond 1	tower and water softening plant that has gone through a silt trap. Liner maintained to ensure a permeability of $1 \times 10^{-9}$ metres per second or less is achieved. Minimum freeboard of 500mm to be maintained. Surveyed freeboard gauges to be maintained in the pond to enable the internal freeboard levels to be visibly recorded at any time.	Schedule 1
Clay lined grey water pond	May only accept "grey water" from the Taylex 5000L wastewater treatment system Liner maintained to ensure a permeability of $1 \times 10^{-9}$ metres per second or less is achieved. A minimum freeboard of 500mm to be maintained	GWP on Figure 2 of Schedule 1
Wastewater treatment plant	Treated water only to be fed into the two Baltimore air coil cooling towers, model number RCT2236.	WTP on Figure 2 of Schedule 1

3. The licence holder must only accept onto the premises materials used for fuel which meets the corresponding acceptance specification set out in Table 3.

**Table 3: Types of materials used for fuel authorised to be accepted onto the premises**

Material type	Acceptance specification
Wood chips	<i>Eucalyptus Globulus</i> (Bluegum) and <i>Pinus Radiata</i> (Pine) waste wood off cuts or equivalent untreated wood waste
Waste oil	High grade fuel oil, compliant with the Australian Oil Recyclers Association standard for High Grade Fuel Oil, as shown in Schedule 3: Recycled fuel oil specification.

## Emissions and discharges

4. The licence holder must ensure that the emissions specified in Table 4, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

**Table 4: Authorised discharge points**

Emission	Discharge point	Discharge point location
Waste gases from the 6 MW wood fired boiler	6 MW wood fired boiler stack which is at least 24m above ground level	A1 on Figure 2 of Schedule 1
Waste gases from the 4 MW waste tube boiler	4 MW waste oil fired boiler stack which is at least 8m above ground level	A2 on Figure 2 of Schedule 1
Waste gases from the 400 kW waste oil fired boiler	400 kW waste oil fired boiler stack which is at least 11m above ground level and is at least 3m above the nearest roof line	A3 on Figure 2 of Schedule 1

5. The licence holder must only operate one boiler at any time except for a 60 minute overlap period when the licence holder changes from operating one boiler to another.
6. The licence holder must ensure that emission of dark smoke from all the emission points in Table 4 shall not continue for a period greater than 20 minutes on any calendar day.

## Process Monitoring

7. The licence holder must record the total amount of fuel accepted onto the premises, for each fuel type listed in Table 5, in the corresponding unit, and for each corresponding time period, as set out in Table 5.

**Table 5: Fuel accepted onto the premises**

Fuel type	Unit	Frequency
Wood chips	Kg	Per load accepted on the premises
Waste oil	Litres	

8. The licence holder must record in hours per annual period the total cumulative time that each boiler listed in Table 2 was operated.

## Records and reporting

9. The licence holder must within 30 calendar days of the waste oil fired boiler required by condition 1 being constructed and/or installed:
- undertake an audit of their compliance with the requirements of condition 1; and
  - prepare and submit to the CEO an Environmental Compliance Report on that compliance.
10. The Environmental Compliance Report required by condition 9, must include as a minimum the following:

- (a) a statement that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
  - (b) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.
- 11.** The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
  - (b) the time and date of the complaint;
  - (c) the complete details of the complaint and any other concerns or other issues raised; and
  - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 12.** The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
  - (b) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
  - (c) process monitoring undertaken in accordance with conditions 7 and 8 of this licence; and
  - (d) complaints received under condition 11 of this licence.
- 13.** The books specified under condition 12 must:
- (a) be legible;
  - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
  - (c) be retained by the licence holder for the duration of the licence; and
  - (d) be available to be produced to an inspector or the CEO as required.
- 14.** The licence holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period; and
  - (b) prepare and submit to the CEO by no later than 30 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

## Definitions

In this licence, the terms in Table 6 have the meanings defined.

**Table 6: Definitions**

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website).
annual period	a 12-month period commencing from 1 June until 31 May of the immediately following year.
AS 1228:2016	means Australian Standard 1228:2016 Pressure equipment - Boilers
AS 1940:2017	means Australian Standard 1940:2017 The storage and handling of flammable and combustible liquids
CEO	means Chief Executive Officer of the Department. "submit to / notify the CEO" (or similar), means either:  Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919  or:  <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
dark smoke	means smoke from any stack which, when measured in accordance with Australian Standard 3543:2014 compared to the Australian Smoke Chart or the Ringelmann Chart appears darker than shade one of those charts (>20% opacity).
Department	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA)
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
kW	means kilowatt (a unit of power equal to one thousand watts)
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
MW	means megawatt (a unit of power equal to one million watts)
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.

### END OF CONDITIONS

## Schedule 1: Maps

### Premises map

The boundary of the prescribed premises is shown in the map below (Figure 1).

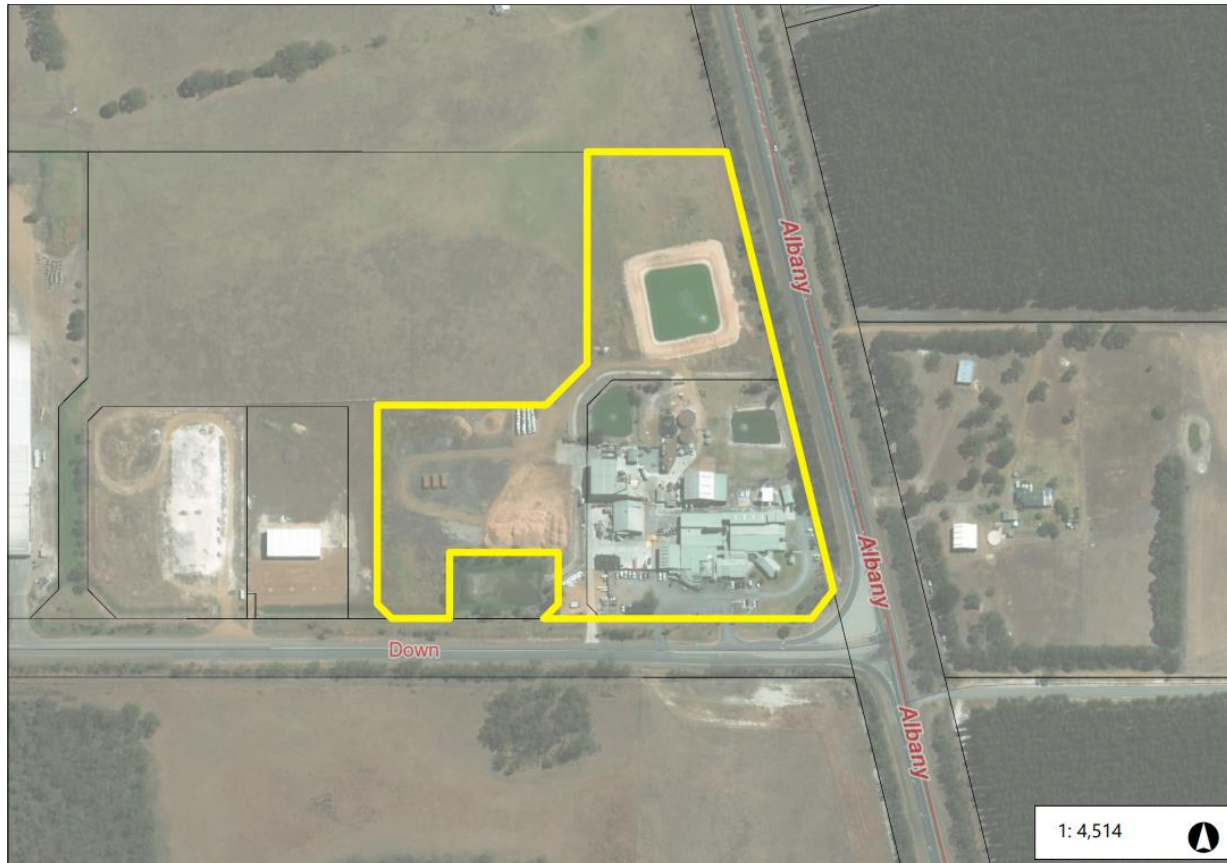


Figure 1: Map of the boundary of the prescribed premises



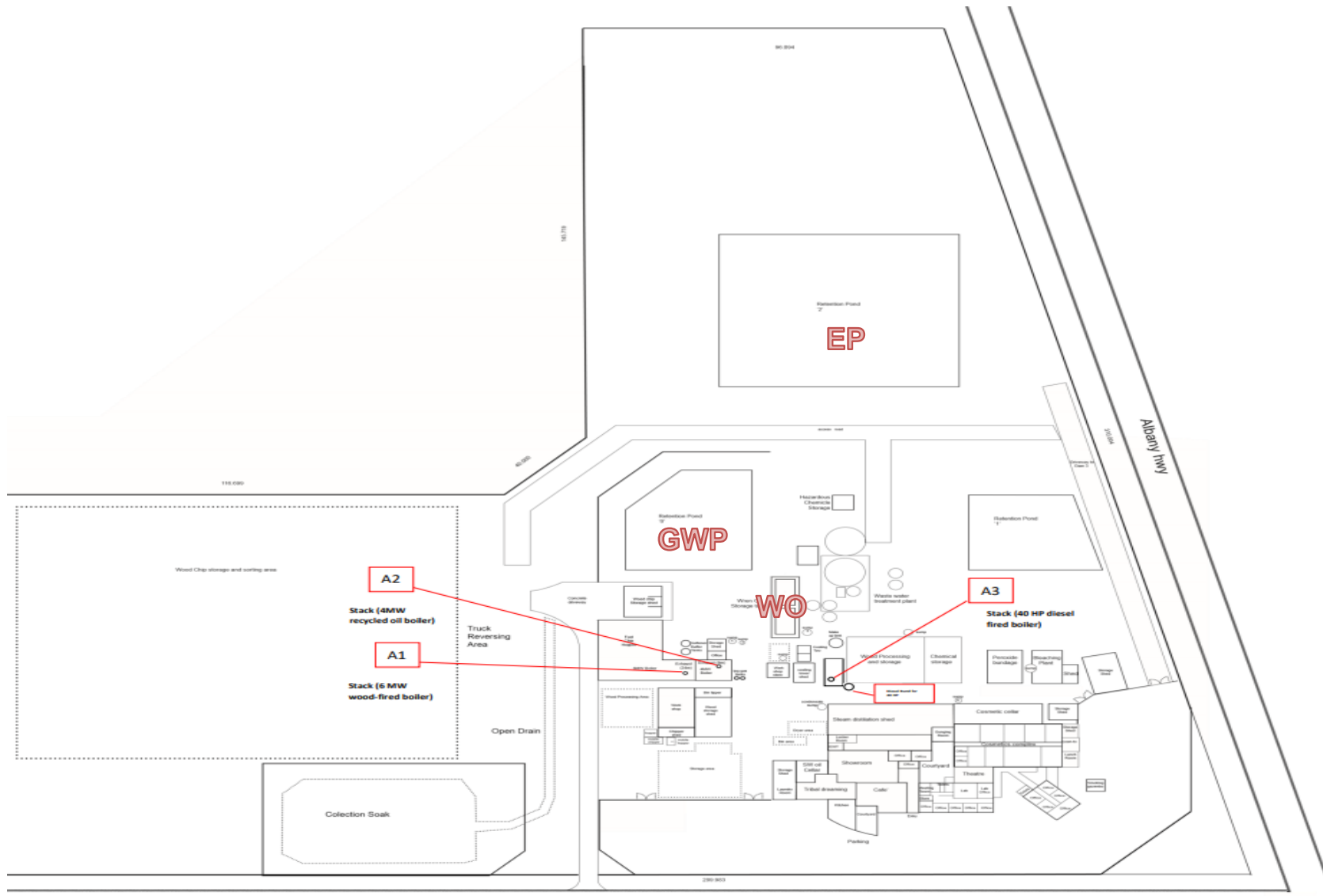


Figure 2: Site Plan with emission to air points

## Schedule 2: Premises boundary

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

**Table 7: Premises boundary coordinates (GDA94)**

Easting	Northing	Zone
6135075.699	572304.141	50
6135058	572288.953	50
6135058	572103.912	50
6135067.92	572114.036	50
6135103.253	572114.284	50
6135103.844	572039.317	50
6135058.512	572038.959	50
6135058.827	571998.996	50
6135068.875	571989.091	50
6135205.238	571990.165	50
6135204.472	572106.691	50
6135232.351	572135.199	50
6135378.013	572136.501	50
6135377.156	572232.617	50

## Schedule 3: Recycled fuel oil specification

High Grade Fuel Oil specification (as per Australia Oil Recyclers Association, [www.aora.asn.au/standards.php](http://www.aora.asn.au/standards.php))

Criterion	ASTM Method	Tertiary level burner oil
Density (kg/L @ 15 °C)	D 4052/D 1298	<b>0.86-0.89</b>
Viscosity (cSt @ 40 °C)	D 95/D 473	<b>25-80</b>
Distillation temperature for 90% vol. recovery ( °C)	D 86	<b>410</b>
Pour point ( °C)	D 97	<b>≤6</b>
Flash point ( °C)	D 3828/D 93	<b>≥61</b>
Gross heating value (MJ/kg)	D 4868/D 240	<b>≥44</b>
Water (vol %)	D 4928	<b>≤0.05</b>
Ash (wt %)	D 482	<b>≤0.05</b>
Sulfur ( max wt%)	D 129	<b>0.5</b>
Vanadium (ppm)	D 5185	<b>≤1</b>
Potassium (ppm)	D 5185	<b>≤1</b>
Calcium (ppm)	D 5185	<b>≤1</b>
Cadmium (ppm)	D 5185	<b>≤1</b>
Chromium (ppm)	D 5185	<b>≤1</b>
Copper (ppm)	D 5185	<b>≤1</b>
Lead (ppm)	D 5185	<b>≤1</b>
Sodium (ppm)	D 5185	<b>≤10</b>
PCB (ppm)		<b>≤2</b>
Chlorinated compounds (total, ppm)		<b>≤1000</b>