Government of Western Australia
Department of Water and Environmental Regulation

# Works Approval

| | |
|---|---|
| **Works approval number** | W6976/2024/1 |
| **Works approval holder** | Central Stockcare Pty Ltd |
| **ACN** | 122 321 500 |
| **Registered business address** | Echua<br>Lot 43 Stock Road<br>BULLSBROOK WA 6084 |
| **DWER file number** | DER2024/00567 |
| **Duration** | 07/01/2025 to 06/01/2028 |
| **Date of issue** | 07/01/2025 |
| **Premises details** | "Sendem Downs" Feedlot<br>2530 Coalara Road<br>BADGINGARRA WA 6521<br><br>Legal description –<br>Lots 10331 & 10332 on Plan 206632 |

| Prescribed premises category description (Schedule 1, Environmental Protection Regulations 1987) | Assessed design capacity |
|---|---|
| Category 68: Cattle feedlot: premises on which the watering and feeding of cattle occurs, being premises –<br>(a) situated more than 100 metres from a watercourse; and<br>(b) on which the number of cattle per hectare exceeds 50. | 2,500 Standard Cattle Units at any one time |

This works approval is granted to the works approval holder, subject to the attached conditions, on 7 January 2025, by:

Caron Goodbourn
Digitally signed by Caron Goodbourn
Date: 2025.01.07 14:08:06 +08'00'

**Caron Goodbourn**
**MANAGER, PROCESS INDUSTRIES**
**STATE-WIDE DELIVERY**
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

# Works approval history

| Date | Reference number | Summary of changes |
|---|---|---|
| 07/01/2025 | W6976/2024/1 | Works approval granted |

# Interpretation

In this works approval:

(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 works approval:
  (i) if dated, refers to that particular version; and
  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
(f) unless specified otherwise, all definitions are in accordance with the EP Act.

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

# Works approval conditions

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

## Construction phase

### Infrastructure and equipment

**1.** The works approval holder must:

(a) construct the infrastructure;
(b) in accordance with the corresponding design and construction requirements; and
(c) at the corresponding infrastructure location,

as set out in Table 1.

**Table 1: Design and construction requirements**

| | Infrastructure | Design and construction requirements | Infrastructure location |
|---|---|---|---|
| 1 | Feedlot pens – including bunkline | • Must only construct one (1) row, with 16 individual pens;<br>• 14 pens must be constructed with maximum dimensions: 45 m x 36 m;<br>• 2 "close out" pens must be constructed with maximum dimensions: 45m x 24 m;<br>• Pen floors and bunkline must be constructed with a long fall of at least 0.25%;<br>• Pen floors and bunkline must be underlain by at least 300 mm of clay or other suitable compactable soil or a synthetic liner able to | "Pens" and "Bunkline Road", as shown in Schedule 1: Map of infrastructure |

| | Infrastructure | Design and construction requirements | Infrastructure location |
|---|---|---|---|
| | | achieve a permeability of $1x10^{-9}$ m/s or less;<br>• Permeability and compaction requirements must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289. | |
| 2 | Effluent catch drain | • Feedlot pens must be constructed with an effluent catch drain, with minimum dimensions: 4 m bed width, 1:5 batter and 0.2 m depth;<br>• Effluent catch drain must be constructed with a long fall of at least 0.25% and connect to the sedimentation system;<br>• Effluent catch drain must be underlain by at least 300 mm of clay or other suitable compactable soil or a synthetic liner able to achieve a permeability of $1x10^{-9}$ m/s or less;<br>• Permeability and compaction requirements must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289. | "Shared Drain", as shown in Schedule 1: Map of infrastructure |
| 3 | Controlled drainage area | • Must comprise all operational areas relating to the feedlot, including pens, bunkline, effluent catch drain;<br>• Area must be sloped to facilitate drainage of surface water runoff to the sedimentation basins. | Not specified |
| 4 | Sedimentation basins x 2 | • Must construct two (2) separate sedimentation basins located downgradient of the controlled drainage area, each with minimum holding capacity of 576 $m^3$ and maximum holding depth of 0.8 m;<br>• Each basin must be constructed with a slatted concrete weir discharge assembly on the discharge point of each basin;<br>• Sedimentation basins must be underlain by at least 300 mm of clay or other suitable compactable soil or a synthetic liner able to achieve a permeability of $1x10^{-9}$ m/s or less;<br>• Permeability and compaction requirements must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289. | "Sed B", as shown in Schedule 1: Map of infrastructure |
| 5 | Evaporation pond | • Must construct an effluent holding pond downgradient of the sedimentation basins, with a minimum holding capacity of 13,200 kL (including minimum operational freeboard of 0.5 m);<br>• Pond floor and walls must be constructed with at least 300 mm of clay or other suitable compactable soil or a synthetic liner able to achieve a permeability of $1x10^{-9}$ m/s or less;<br>• Permeability and compaction requirements must be demonstrated by geotechnical testing | "Evap P", as shown in Schedule 1: Map of infrastructure |

| | Infrastructure | Design and construction requirements | Infrastructure location |
|---|---|---|---|
| | | conducted by a suitably qualified engineer and in accordance with AS 1289. | |
| 6 | Manure storage and composting area | • Must construct a manure storage area with minimum dimensions: 300 m x 60 m;<br>• Area must be underlain by at least 300 mm of clay or other suitable compactable soil or a synthetic liner able to achieve a permeability of $1x10^{-9}$ m/s or less;<br>• Permeability and compaction requirements must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289;<br>• Area must be bunded to ensure manure and compost leachates and contaminated surface water runoff is contained within the controlled drainage area;<br>• Area must be sloped to facilitate drainage of leachates and surface water runoff to the sedimentation basins. | "Manure Pad", as shown in Schedule 1: Map of infrastructure |

**2.** The works approval holder must, within 28 calendar days of the infrastructure being constructed for each of Stage 1, Stage 2 and Stage 3 specified in condition 1:

(a) undertake an audit of their compliance with the requirements of condition 1 for each stage; and
(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance for each stage.

**3.** The Environmental Compliance Report required by condition 2, must include as a minimum:

(a) certification by a suitably qualified engineer, whether or not the items of infrastructure or components thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;
(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and
(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

**4.** Subject to condition 3(a), where an item of infrastructure or component of infrastructure has been certified as not being constructed, or does not comply with the corresponding requirements, or contains material defects, the works approval holder must:

(a) correct the non-compliant or defective works, prior to re-certifying in accordance with condition 3(a); or
(b) provide to the CEO a description of, and explanation for, any departures from the requirements specified in Table 1 that do not require rectification and do not constitute a material defect along with the Environmental Compliance Report required by condition 2.

## Time limited operational phase

### Commencement and duration

**5.** The works approval holder may only commence time limited operations for the infrastructure identified in condition 7 where the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder.

**6.** The works approval holder may conduct time limited operations for the infrastructure specified in condition 7 (as applicable):

(a) for a period not exceeding 90 calendar days from the day the works approval holder meets the requirements of condition 1 for that infrastructure; or
(b) until such time as a licence is granted in accordance with Division 3, Part V of the *Environmental Protection Act 1986*,

whichever is sooner.

## Infrastructure and equipment

**7.** During time limited operations, the works approval holder must ensure the premises infrastructure listed in Table 2 is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

**Table 2: Infrastructure requirements during time limited operations**

| | Site infrastructure | Operational requirement |
|---|---|---|
| 1 | Feedlot pens | • Stocking density must not exceed 9 $m^2$/SCU within pens;<br>• Pens must be cleaned once the depth of dry manure on the pen surface exceeds 50 mm, or at least once every 13 weeks, whichever is sooner;<br>• Manure harvested from pen surfaces must only be stockpiled on the manure storage and composting area; |
| 2 | Effluent catch drain | • Must be maintained to ensure all leachate and surface water runoff from the feedlot pens, bunks and cattle alley can flow freely to the sedimentation system without scouring; |
| 3 | Controlled drainage area | • Must be maintained to ensure all surface water runoff is able to flow freely to the sedimentation system; |
| 4 | Sedimentation basins | • Must be maintained such that each basin flows freely after rainfall events;<br>• Basins must be cleaned of solids before sludge takes up more than 10% of the design capacity of the basin;<br>• An operational freeboard of at least 0.8 m must be maintained at all times; |
| 5 | Effluent holding pond | • An operational freeboard of at least 0.5 m must be maintained at all times. |
| 6 | Manure storage/composting area | • All deceased animals must be composted on the designated compost pad, or taken off-site to a disposal facility that is licensed to accept that kind of waste;<br>• Deceased animals must be covered with organic matter at least 1.2 m in the centre and at least 0.5 m on the sides;<br>• Only low risk feedstocks may be brought onto the premises as supplementary organic material for use in the composting process;<br>• Compost windrows must be turned and aerated to ensure oxygen levels are maintained above 5%;<br>• Moisture levels of compost windrows must be maintained between 50 – 60%;<br>• The carbon to nitrogen ratio of compost windrows must be maintained between 15:1 and 40:1;<br>• Temperature of compost windrows must be maintained between 40 and 65°C. |

### Manure utilisation

**8.** During time limited operations, the works approval holder must ensure manure is disposed to land only in accordance with the requirements specified in Table 3.

**Table 3: Authorised disposal of composted manure to land**

| Disposal point reference | Disposal (to land) requirements |
|---|---|
| Manure utilisation areas | Spreading of manure and mortalities compost to land at a rate of not more than 8.2 t/ha/yr, and in accordance with conditions 9 and 12 |

**9.** The works approval holder must ensure that when spreading manure:

(a) only manure and finished compost and mortalities compost generated from operations at the premises are the only solid wastes that are spread over the designated manure utilisation areas;
(b) manure is evenly distributed over the manure utilisation areas;
(c) manure is only spread onto areas growing crops or pasture within the manure utilisation area; and
(d) the manure utilisation areas are harvested at least once every 12 months.

## Monitoring

### General monitoring

**10.** The works approval holder must ensure that:

(a) all soil samples are collected in accordance with DPIRD guidelines for soil sampling;
(b) all soil samples are submitted to and tested by a laboratory with current ASPAC certification (or equivalent); and
(c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

**11.** The works approval holder must ensure that annual monitoring is undertaken at least 9 months apart.

### Soil monitoring

**12.** During time limited operations, the works approval holder must conduct soil testing at the locations listed in Table 4, at the corresponding depths down the soil profile, for the corresponding parameters, units and frequency specified in that table.

**Table 4: Soil testing requirements**

| Soil sampling locations | Soil profile | Parameter | Units | Frequency |
|---|---|---|---|---|
| At least one sample made up of at least 5 individual cores for each farm paddock across the manure utilisation areas[1,2] | 0 – 10 cm;<br>10 – 20 cm;<br>20 – 30 cm; | pH[1] | $CaCl_2$ | Prior to the first manure spreading event to establish baseline, and annual thereafter for each paddock receiving manure in the previous 12 months period |
| | | Electrical conductivity | mS/cm | |
| | | Moisture content | % | |
| | | Total nitrogen, ammonium-nitrogen, nitrate-nitrogen | mg/kg | |
| | | Total phosphorus | | |
| | | Phosphorus retention index (PRI) | - | |
| | | Phosphorus buffering index (PBI) | - | |
| | | Aluminium | $CaCl_2$ extract | |

*Note 1: For soil sampling purposes, each farm paddock must represent a maximum area of 50 ha.*
*Note 2: GPS coordinates must be recorded for each sampling location, to ensure subsequent sampling events are in the same location.*

### Monitoring of inputs and outputs

**13.** During time limited operations, the works approval holder must keep accurate records for the items specified in Table 5.

**Table 5: Monitoring of inputs and outputs**

| Input / Output | Parameter | Units | Frequency |
|---|---|---|---|
| Animals received and dispatched at the premises | Animals | Number | Each truck arriving/leaving at the premises |
| Deceased animals | | | Monthly |
| Compost feedstock brought onto the premises | Feedstock type | Tonnes | Each load brought onto the premises, by type |

## Records and reporting (general)

**14.** The works approval holder must record the following information in relation to complaints received by the works approval holder (whether 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 issues raised; and
(d) the complete details and dates of action(s) taken by the works approval holder to investigate or respond to any complaint.

**15.** The works approval holder must maintain accurate and auditable books including the following records, information, reports and data required by this works approval:

(a) the works conducted in accordance with condition 1;
(b) any maintenance of infrastructure that is performed in the course of complying with condition 7;
(c) results of soil monitoring required by condition 12;
(d) records of inputs and outputs in accordance with condition 13; and
(e) complaints received under condition 14.

**16.** The books specified under condition 15 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 works approval holder for the duration of the works approval; and
(d) be available to be produced to an inspector or the CEO as required.

# Definitions

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

**Table 6: Definitions**

| Term | Definition |
|---|---|
| AS 1289 | means the most recent version and relevant parts of the Australian Standard AS 1289 *Methods of testing soils for engineering purposes* |
| ASPAC | Australian Soil and Plant Analysis Council |
| ASPAC certification | means in relation to the analysis of a sample that the laboratory is certified by ASPAC for the specified analysis at the time of the analysis |
| books | has the same meaning given to that term under the EP Act |
| CEO | means Chief Executive Officer of the Department<br>CEO for the purposes of notification means:<br>Director General<br>Department administering the *Environmental Protection Act 1986*<br>Locked Bag 10<br>JOONDALUP DC WA 6919<br>info@dwer.wa.gov.au |
| condition | means a condition to which this works approval is subject under s.62 of the EP Act |
| Department | means the department 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 EP Act |
| discharge | has the same meaning given to that term under the EP Act |
| DPIRD guidelines for soil sampling | means the document entitled "*A guide for fit for purpose soil sampling*" (Fertilizer Australia 2019), available at https://fertilizer.org.au |
| emission | has the same meaning given to that term under the EP Act |
| Environmental Compliance Report | means a report to satisfy the CEO that the conditioned infrastructure has been constructed in accordance with the works approval |
| EP Act | *Environmental Protection Act 1986* (WA) |
| EP Regulations | Environmental Protection Regulations 1987 (WA) |
| freeboard | means the distance between the maximum surface water elevations and the top of retaining banks or structures at their lowest point |
| low risk feedstock | means green waste derived from controlled collections and landscaping sources (e.g. grass, leaves, plants, branches, etc.), untreated timber (e.g. sawdust, wood shavings, timber off-cuts, etc.) and natural fibrous organics (e.g. peat, seed hulls/husks, straw, bagasse and other natural organic fibrous organics) |
| manure utilisation area | means an area of land in which manure or compost is applied |
| NATA | National Association of Testing Authorities, Australia |
| NATA accreditation | 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 |
| premises | the premises to which this works approval applies, as specified at the front of this works approval and as shown on the map in Schedule 1 to this works approval |
| prescribed premises | has the same meaning given to that term under the EP Act |
| Phosphorus retention index (PRI) | means the ratio of phosphorus adsorbed by soil (micrograms per gram) compared to that remaining in a solution (of initial concentration of 10 mg phosphorus per litre) after 16 hours |

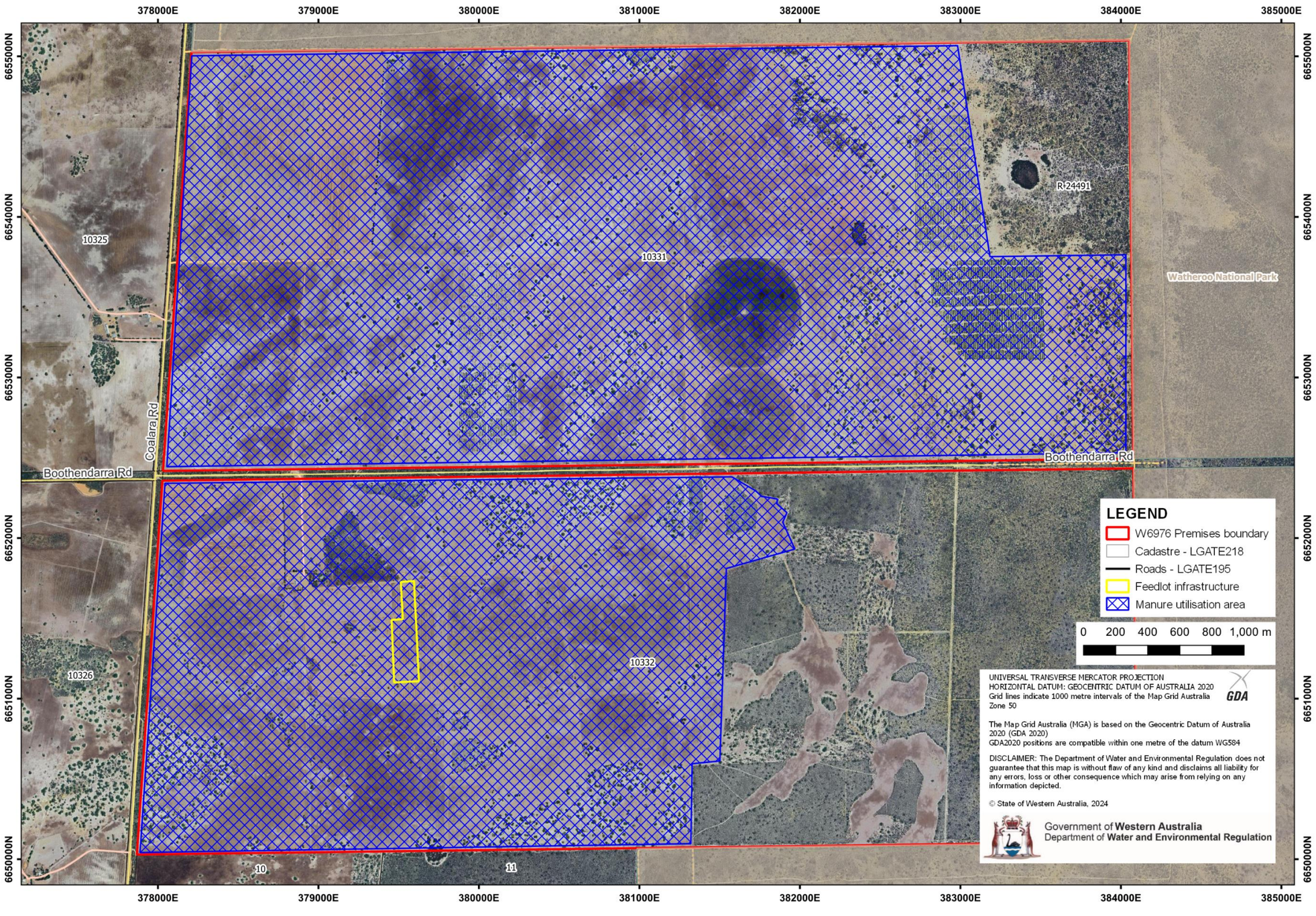
| | |
|---|---|
| time limited operations | means operation of the infrastructure identified under this works approval that is authorised for that purpose, subject to the relevant conditions |
| Standard cattle unit (SCU) | means equivalent to animal with a liveweight of 600 kg |
| suitably qualified engineer | means a person who holds a tertiary academic qualification in engineering and has a minimum 5 years of experience working in their area of expertise |
| works approval | refers to this document, which evidences the grant of the works approval by the CEO under s.54 of the EP Act, subject to the conditions |
| works approval holder | refers to the occupier of the Premises being the person to whom this works approval has been granted, as specified at the front of this works approval |

**END OF CONDITIONS**

# Schedule 1: Maps

## Premises map and map of manure utilisation areas

The boundary of the prescribed premises is shown in the map below (red line), in addition to the approximate location of the proposed feedlot infrastructure (yellow line).



# Schedule 1: Maps

## Map of infrastructure

The location of key feedlot infrastructure is shown in the map below.