Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6554/2021/1
Works approval holder	Ucarty Holdings Pty Ltd
ACN	009 066 479
Registered business address	84 Ucarty Rock Road UCARTY WA 6462
DWER file number	DER2021/000309
Duration	17/06/2022 to 16/06/2025
Date of issue	16/06/2022
Premises details	Ucarty Feedlot Ucarty Road UCARTY WA 6521 Legal description – Lot 4666 on Plan 113035 (feedlot) Lot 13064 on Plan 136350, Lot 27890 on Plan 165452, Lots 2670, 2671, 2672 & 20618 on Plan 224572, Lot 4666 on Plan 113035, Lot 7882 on Plan 120468, Lots 19978 & 22509 on Plan 87261, Lot 19992 on Plan 87263, Lot 24824 on Plan 150105, Lots 100 & 101 on Plan 300056 and Lot 101 on Plan 300380 (waste utilisation areas)

Prescribed premises category description (Schedule 1, Environmental Protection Regulations 1987)	Assessed design capacity
Category 1: Cattle feedlot: premises on which the watering and feeding of cattle occurs, being premises – (a) situated less than 100 metres from a watercourse; and (b) on which the number of cattle per hectare exceeds 50.	1,540 Standard Cattle Units at any one time (covered pens only)

This works approval is granted to the works approval holder, subject to the attached conditions, on 16 June 2022, by:

Caron Goodbourn
Digitally signed by Caron Goodbourn
Date: 2022.06.16 12:32:29 +08'00'

Caron Goodbourn
MANAGER, PROCESS INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
16/06/2022	W6554/2021/1	Works approval granted for covered pens

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	Covered feedlot pens	• Must construct one roofed shed with no more than 8 pens; • Each pen must be constructed with maximum dimensions: 30 m x 30 m; • Pen floors and cattle alleys must be underlain by at least 300 mm of clay or other suitable compactable soil; • Soil compaction and density of materials used in construction of pen floors and cattle alleys must be demonstrated by geotechnical testing conducted by a suitably qualified engineer	"Covered pens", as shown in Schedule 1: Map of infrastructure

	Infrastructure	Design and construction requirements	Infrastructure location
		and in accordance with AS 1289; • Must construct a minimum 150 mm high bund around the external perimeter of the covered feedlot pens.	

2	Outdoor feedlot main catch drain	• Must construct a main catch drain along the total length of the western edge of the existing outdoor feedlot pens;
		• Drain must be constructed with minimum dimensions:
		  • Top end: 900 mm bed width, 1:3 batter on upslope, 1:1 batter on downslope, and 0.4 m depth;
		  • Bottom end: 1,200 mm bed width, 1:3 batter on upslope, 1:1 batter on downslope, and 0.5 m depth;
		• Drain must be underlain by at least 300 mm of clay or other suitable compactable soil;
		• Soil compaction and density of materials used in construction must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289.
			"Main drain", as shown in Schedule 1: Map of infrastructure

3	Composting pad	• Must construct a composting pad with minimum dimensions: 30 m x 9 m; • Pad 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; • Soil compaction and density of materials used in construction must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289; • Area must be bunded to ensure manure and compost leachates and contaminated surface water runoff is contained within the controlled drainage area; • Pad must be sloped to facilitate drainage of leachates and surface water runoff to the composting containment dam.	"Composting area", as shown in Schedule 1: Map of infrastructure
4	Composting containment dam	• Must construct a containment dam at the lowest point of the composting area; • Dam must be constructed with a holding capacity of at least 30 m^3 (including operational freeboard of 300 mm); • Dam must be underlain by at least 300 mm of clay or other suitable compactable soil; • Soil compaction and density of materials used in construction of dam floor and walls must be demonstrated by geotechnical testing conducted by a suitably qualified engineer and in accordance with AS 1289.	"Composting dam", as shown in Schedule 1: Map of infrastructure

2. The works approval holder must, within 28 calendar days of the infrastructure specified in condition 1 being constructed:

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

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

(a) certification whether 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 an item of infrastructure identified in condition 7 where the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder for that item of infrastructure.

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

(a) for a period not exceeding 90 calendar days from the completion date of environmental commissioning; 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	Covered feedlot pens	• Stocking density must not exceed 4.7 m^2/SCU within pens; • Straw bedding within pens must be cleaned at the end of every rotation; • Spoilt bedding material removed from pens must not be stockpiled separately to the composting process on the premises.

	Site infrastructure	Operational requirement
2	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; • 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; • Only low risk feedstocks may be brought onto the premises as supplementary organic material for use in the composting process; • Composting temperature must be maintained at temperatures at least 70°C; • Windrows must not be disturbed or turned until the full decomposition process has been completed.

Manure utilisation

8. During time limited operations, the works approval holder must ensure solid wastes are 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
Waste utilisation area, as depicted in Schedule 1 map	Spreading to land at the following rates: • straw/manure at not more than 4.5 t/ha/yr; • dry manure at not more than 2.5 t/ha/yr; and • composted material at not more than 1.0 t/ha/yr;

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

(a) only straw/manure, dry manure, and finished compost processed in accordance with condition 7 are spread within the waste utilisation area(s);
(b) manure is evenly distributed within the waste utilisation area(s);
(c) manure is only spread onto areas growing crops or pasture within the waste utilisation area(s);
(d) manure is not spread within 100 m of any defined watercourse or within 50 m of any gazetted road reserve; and
(e) waste utilisation area(s) 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 waste utilisation area[1,2]	0 – 10 cm; 10 – 20 cm; 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 CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 JOONDALUP DC WA 6919 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)
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
waste utilisation area	means an area of land in which manure or compost is applied
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

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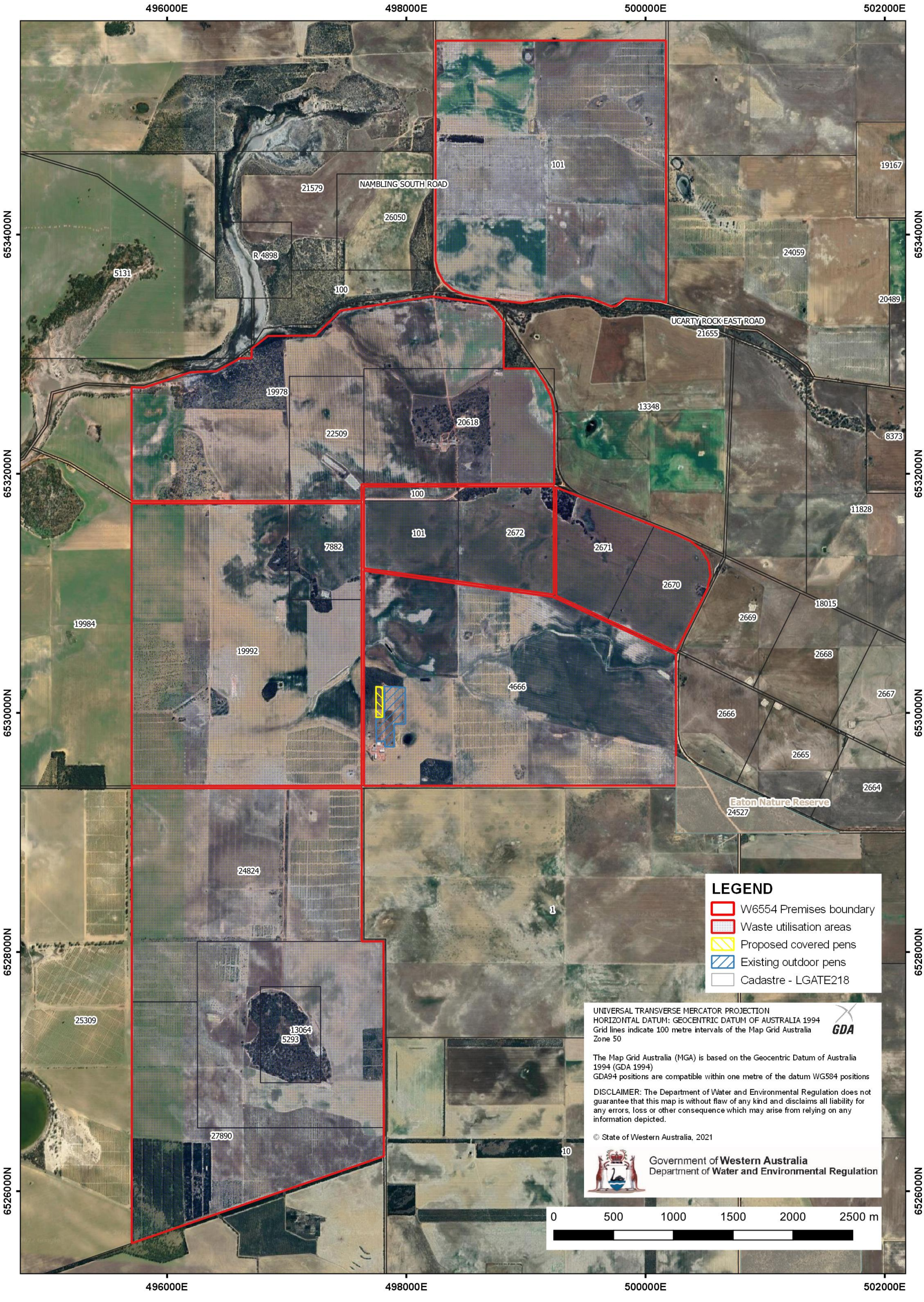
END OF CONDITIONS

Schedule 1: Maps

Premises map and map of waste utilisation area

The boundary of the prescribed premises is shown in the map below (red line), in addition to the location of the feedlot infrastructure (yellow line). The waste utilisation area(s) are shown as the blue dotted area.



Schedule 1: Maps

Map of infrastructure

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