



Works Approval

Works approval number W6761/2022/1

Works approval holder Department of Communities

Registered business address 5 Newman Court
Fremantle WA 6160

DWER file number DER2022/000642

Duration 17/03/2023 to 16/03/2028

Date of issue 17/03/2023

Premises details Jigalong Wastewater Treatment Plant

Legal description -
Part of Lot 500 on Deposited Plan 406087
Crown Reserve 41265
As defined by the coordinates in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 54: Sewage facility; premises – (a) on which sewage is treated (excluding septic tanks); or (b) from which treated sewage is discharged onto land or into waters	113m ³ /day
Assessed activities directly related to the above categories	
Clearing of 9.64 ha hectares of native vegetation – Assessment number 8279/1	

This works approval is granted to the works approval holder, subject to the attached conditions, on 17 March 2023, by:

Steve Checker

**MANAGER WASTE 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
14/08/2019	W6234/2019/1	Works approval granted.
17/03/2023	W6761/2022/1	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 and/or install the infrastructure and/or equipment;
 - (b) in accordance with the corresponding design and construction / installation requirements; and
 - (c) at the corresponding infrastructure location as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Sewage treatment system	The sewage treatment system must be designed and constructed to meet the following specifications: <ol style="list-style-type: none">(a) be able to receive and treat a sewage inflow of up to 113 m³/ day;(b) allow sufficient capacity to capture a 1 in 10 year 72 hour rainfall event whilst retaining a 400 mm Freeboard; and(c) direct all treated wastewater to Evaporation / Infiltration Pond 1 and 2.	Schedule 1 Site Plan
2.	Primary pond 1	<ul style="list-style-type: none">• must be HDPE lined with a permeability of less than 1x10⁻⁹ m/s or equivalent;• comprise the following dimensions:<ol style="list-style-type: none">i. depth of 1.8m;ii. width of 40m; andiii. length of 85m.	Schedule 1 Site Plan
3.	Secondary pond 1	<ul style="list-style-type: none">• must be HDPE lined with a permeability of less than 1x10⁻⁹ m/s or equivalent;• comprise the following dimensions:<ol style="list-style-type: none">i. depth of 1.5m;ii. width of 20m; andiii. length of 40m.	Schedule 1 Site Plan
4.	Secondary pond 2	<ul style="list-style-type: none">• must be HDPE lined with a permeability of less than 1x10⁻⁹ m/s or equivalent;• comprise the following dimensions:<ol style="list-style-type: none">i. depth of 1.5m;ii. width of 20m; andiii. length of 40m.	Schedule 1 Site Plan

	Infrastructure	Design and construction / installation requirements	Infrastructure location
5.	Evaporation / Infiltration Pond 1	<ul style="list-style-type: none"> must be HDPE lined on embankments; comprise the following dimensions: <ul style="list-style-type: none"> i. depth of 1.0m; ii. width of 65.79m; and iii. length of 110.0m 	Schedule 1 Site Plan
6.	Evaporation / Infiltration Pond 2	<ul style="list-style-type: none"> Embankment walls must be HDPE lined; comprise the following dimensions: <ul style="list-style-type: none"> i. depth of 1.0m; ii. width of 70.50m; and iii. length of 110m. 	Schedule 1 Site Plan
7.	Sludge drying bed	<ul style="list-style-type: none"> constructed of GCL liner with a permeability of less than 1×10^{-9} m/s or equivalent; comprise the following dimensions: <ul style="list-style-type: none"> i. width of 15m; and ii. length of 20m be fully banded to retain liquid waste within the bed; the liner must be supplied with conformance certificates prior to construction to ensure the liner is fit for purpose according to the manufacturers recommendations; the liner must be free of tears or holes prior to installation; and adjacent sheets of liner are to overlap by a minimum of 150mm, prior joining in accordance with manufacturer's specifications. 	Schedule 1 Site Plan

Compliance reporting

2. The works approval holder must within 30 calendar days of the completion of construction and/or installation of the infrastructure or equipment required by condition 1:
 - (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 the following:
- (a) certification by a suitably qualified civil engineer 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) 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.

Native Vegetation Clearing

4. The works approval holder shall not clear more than 9.6 hectares of native vegetation within the area cross-hatched yellow on attached Plan 8279/1 in Schedule 2.
5. In determining the amount of native vegetation to be cleared authorised under this Works Approval, the works approval holder must have regard to the following principles, set out in order of preference:
- (a) avoid the clearing of native vegetation;
 - (b) minimise the amount of native vegetation to be cleared; and
 - (c) reduce the impact of clearing on any environmental value.
6. When undertaking any clearing or other activity authorised under this Works Approval, the works approval holder must take the following steps to minimise the risk of the introduction and spread of weeds:
- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
 - (b) ensure that no weed-affected soil, mulch, fill or other material is brought into the area to be cleared; and
 - (c) restrict the movement of machines and other vehicles to the limits of the area to be cleared.
7. The works approval holder must maintain the following records for activities done pursuant to this Works Approval:
- (a) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Easting and Northings or decimal degrees;
 - (b) the date that the area was cleared;
 - (c) the size of the area cleared (in hectares); and
 - (d) actions taken to minimise the risk of the introduction and spread of weeds in accordance with condition 6 of this Works Approval.

Records and reporting (general)

8. The works approval holder must record the following information in relation to complaints received by the works approval 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 works approval holder to investigate or respond to any complaint.
9. 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 1; and
 - (c) complaints received under condition 8.
10. The books specified under condition 9 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 have the meanings defined.

Table 2: Definitions

Term	Definition
books	has the same meaning given to that term under the EP Act.
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
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.
discharge	has the same meaning given to that term under the EP Act.
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 and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	<i>Environmental Protection Act 1986</i> (WA).
EP Regulations	<i>Environmental Protection Regulations 1987</i> (WA).
Fill	Means material used to increase the ground level, or fill a hollow
Freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point
GCL	Geosynthetic Liner
HDPE	High-density polyethylene
Mulch	means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1 to this works approval.

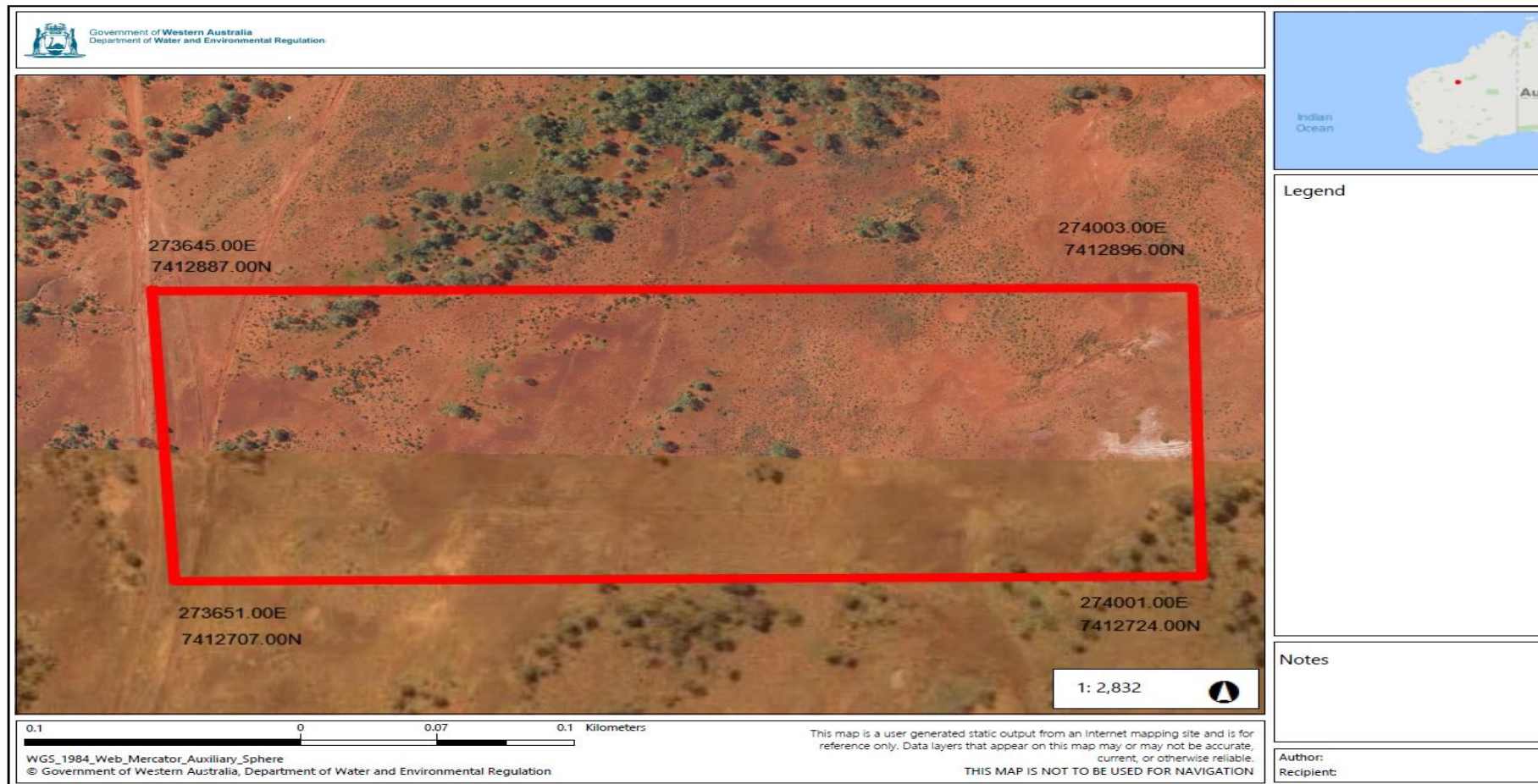
Term	Definition
prescribed premises	has the same meaning given to that term under the EP Act.
waste	has the same meaning given to that term under the EP Act.
Weed/s	mean any plant - (a) that is a declared pest under section 22 of the <i>Biosecurity and Agriculture Management Act 2007</i> ; or (b) published in a Department of Biodiversity, Conservation and Attractions Regional Weed Rankings Summary, regardless of ranking; or (c) not indigenous to the area concerned.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 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

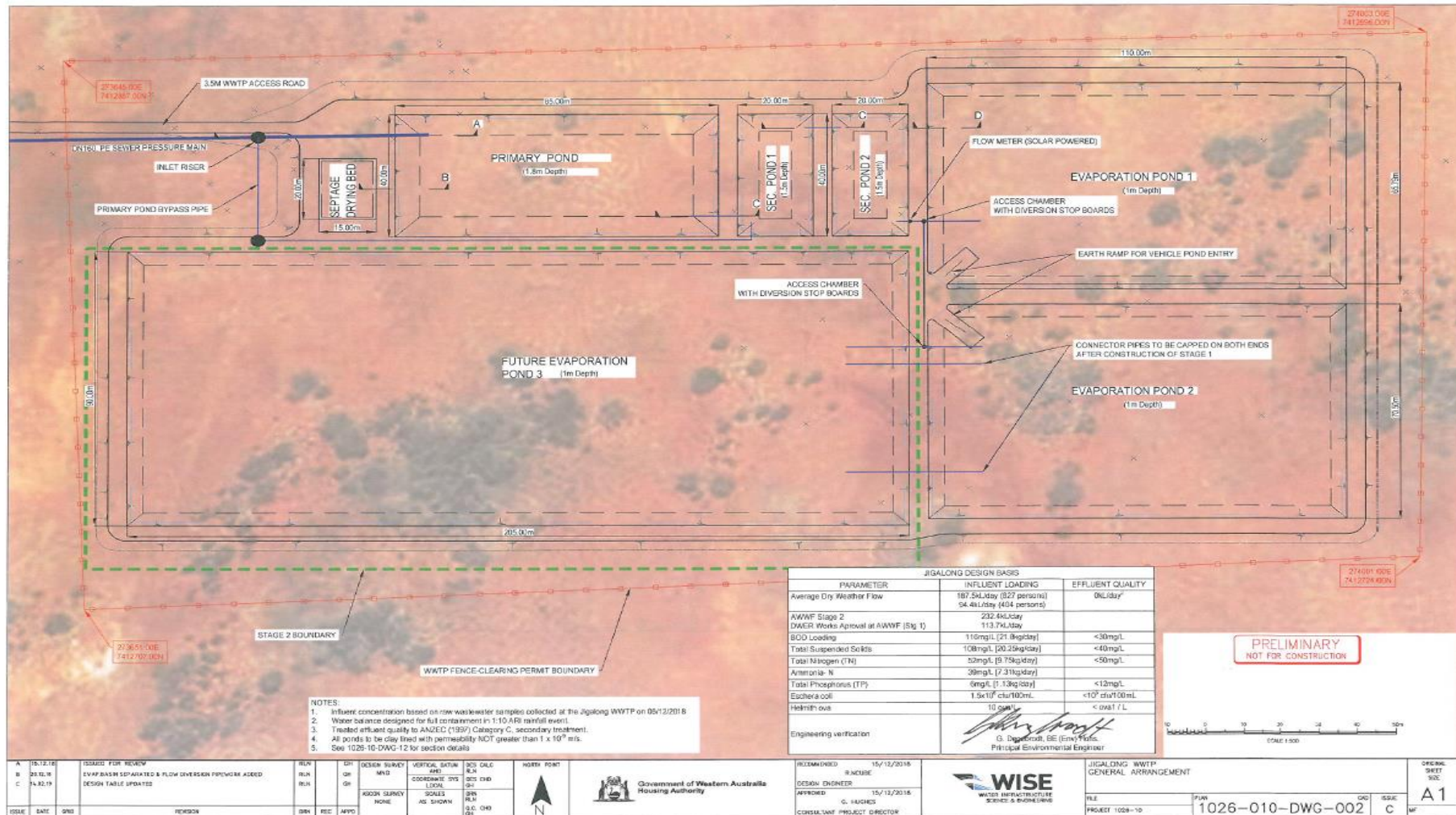
The boundary of the prescribed premises is shown in the map below in red.



W6761/2022/1

IR-T05 Works approval template (v6.0) (September 2022)

Site Plan

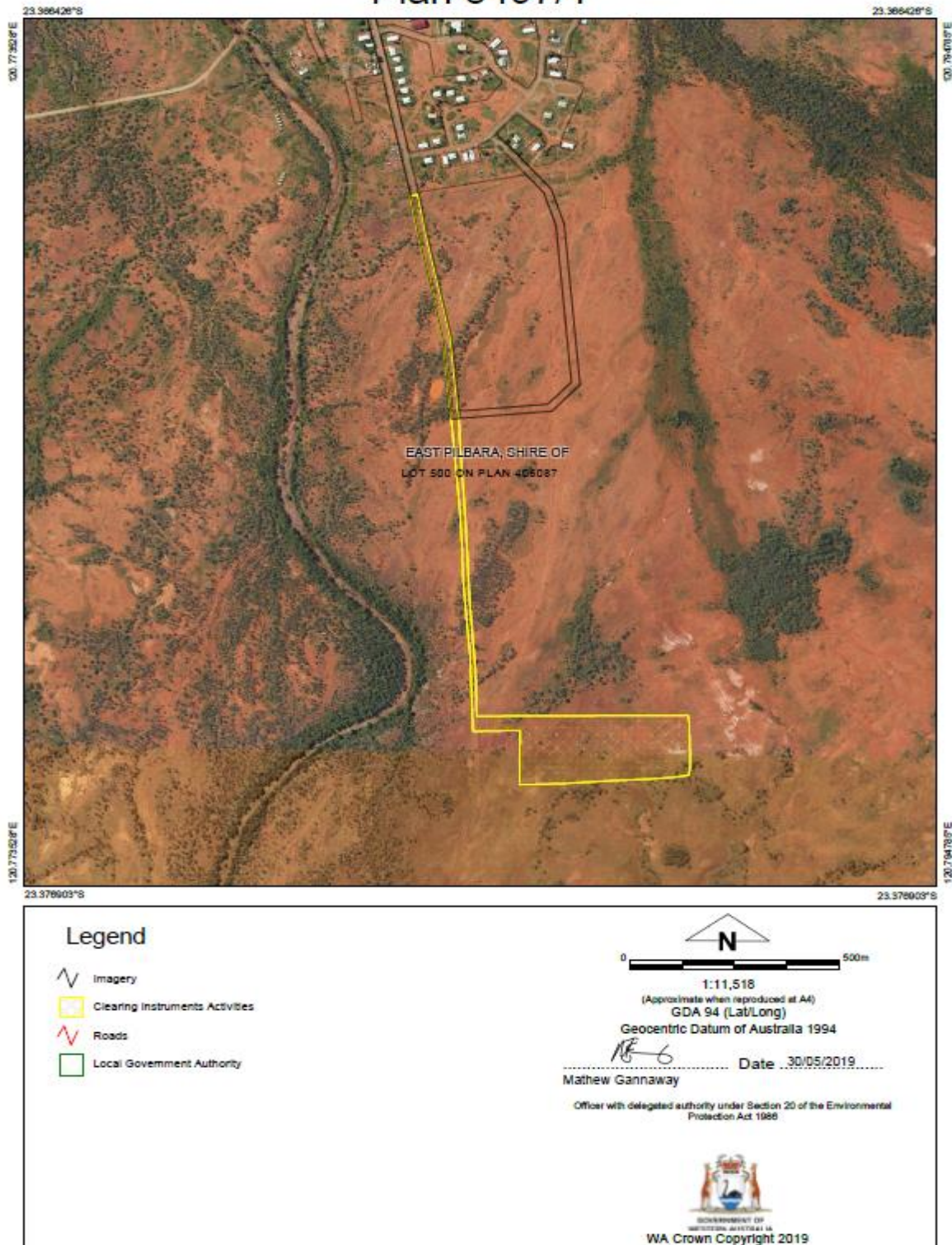


W6761/2022/1

IR-T05 Works approval template (v6.0) (September 2022)

Schedule 2: Clearing Map

Plan 8497/1



W6761/2022/1

IR-T05 Works approval template (v6.0) (September 2022)