



Works Approval

Works Approval Number	W6244/2019/1
Works Approval Holder	Paddington Gold Pty Ltd
ACN	008 585 886
Registered business address	Level 1, Viskovich House 377 Hannan Street KALGOORLIE WA 6430
File Number	DER2019/000043
Duration	01/08/2019 to 31/07/2024
Date of issue	01/08/2019
Prescribed Premises	Category 6: Mine dewatering
Premises	Golden Cities Mining tenements: M24/564, M24/565, M324/616, M27/185 and L24/231 As depicted in Schedule 1

This Works Approval is granted to the Works Approval Holder, subject to the following conditions, on 01/08/2019, by:

Tim Gentle
Manager – Resource Industries
REGULATORY SERVICES

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

Explanatory notes

These explanatory notes do not form part of this Works Approval.

Defined terms

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

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 and works approvals, takes enforcement action and develops and implements licensing and industry regulation policy.

Works Approval

Section 52 of the EP Act provides that an occupier of any premises commits an offence if any work is undertaken on, or in relation to, the premises which causes the premises to become, or to become capable of being, Prescribed Premises, except in accordance with a works approval.

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 Works Approval 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 Works Approval Holder to ensure that any action or activity referred to in this Works Approval is permitted by, and is carried out in compliance with, statutory requirements.

The Works Approval Holder must comply with the Works Approval. Contravening a Works Approval Condition is an offence under s.55 of the EP Act.
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Responsibilities of Works Approval Holder

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

- the duties of an occupier under s.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 Works Approval Holder has a duty to report to the Department 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 Works Approval 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 Works Approval Holder and these are set out in the EP Act. Section 74A(b)(iii) 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 Works Approval Holder can prove that an Emission or Discharge occurred in accordance with a Works Approval.

This Works Approval 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 the Works authorised through this Works Approval are authorised to be conducted in accordance with the Conditions of this Works Approval.

Amendment of Works Approval

The Works Approval Holder can apply to amend the Conditions of this Works Approval 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 Works Approval at any time on the initiative

of the CEO without an application being made.

Duration of Works Approval

The Works Approval will remain in force for the duration set out on the first page of this Works Approval 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 Works Approval in accordance with s.59A of the EP Act.

Definitions and interpretation

Definitions

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

Table 1: Definitions

Term	Definition
AS/NZS 5667.1	Means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples</i>
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 6027 info@dwer.wa.gov.au
Commissioning	Means a period of time to allow for stabilisation and optimisation of the process following input of raw materials under operation conditions (including emissions) on the Works Approval for the limited period of operations required.
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 <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 Works Approval Holder in writing and sent to the Works Approval's address for notifications, as described at the front of this Works Approval, in relation to: (a) compliance with the EP Act or this Works Approval; (b) the Books or other sources of information maintained in accordance with this Works Approval; 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</i> (WA).
EP Regulations	means the <i>Environmental Protection Regulations 1987</i> (WA).
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.

Material Environmental Harm	has the same meaning given to that term under the EP Act.
NATA	National Association of Testing Authorities, Australia
Pollution	has the same meaning given to that term under the EP Act.
Premises	refers to 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.
Professional Engineer	Means a person holding current certification from the Institution of Engineers Australia (IEAust)
Reportable Event	means an exceedance above the target limit specified in Column 4 of Table 6, in Schedule 3.
Serious Environmental Harm	has the same meaning given to that term under the EP Act.
Time Limited Operational Phase	means full dewatering operations permitted under this Works Approval, subject to the Conditions, whilst an application for a licence is being assessed.
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.
Works	refers to the Works described in Schedule 2, at the locations shown in Schedule 1 of this Works Approval to be carried out at the Premises, subject to the Conditions.
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.

Interpretation

In this Works Approval:

- (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 Works Approval means the version of the standard, guideline or code of practice in force at the time of granting of this Works Approval and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the Works Approval; and
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act.

Conditions

Infrastructure and equipment

1. The Works Approval Holder must install and undertake the Works for the infrastructure and equipment:
 - (a) specified in Column 1;
 - (b) to the requirements specified in Column 2; and
 - (c) at the location specified in Column 3of Table 2 below.
2. Within 28 days of the completion of the Works specified in Column 2 of Table 2, the Works Approval Holder must provide to the CEO an Environmental Compliance Report.
3. The Works Approval Holder must ensure the report required by Condition 3 includes, but is not limited to, the following:
 - (a) Certification by a qualified Professional Engineer that each item of infrastructure or component of infrastructure specified in Column 1 of Table 2 has been constructed with no material defects and to the requirements specified in Column 2 of Table 2; and
 - (b) Be signed by a person authorised to represent the Works Approval Holder and contains the printed name and position of that person within the company.

Table 2: Infrastructure and equipment requirements table

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
Dewatering pipelines	<ul style="list-style-type: none">110 and 315 NB single weld pipeline and to be laid within v-drains. Required to meet the following standards: <ul style="list-style-type: none">AS/NZS 2033:3008: Installation of polyethylene pipe systems;AS/NZS 4129:2008: Fittings for polyethylene (PE) pipes for pressure applications;AS/NZS 4130:2009 Polyethylene (PE) pipes for pressure applications; andAS/NZS 4131:2010: Polyethylene (PE) compounds for pressure pipes and fittings	Pipeline route to be located as shown in Premises Map in Schedule 1
Scour pits	The scour pits to be constructed at a minimum 500 m intervals.	Not depicted

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
V-drains	The v-drains and scour pits in combination must have sufficient capacity to completely contain any spills from pipeline leakage or breach for a period equal to the time between routine inspections. The Works Approval Holder must provide evidence of such capacity within the Environmental Compliance Report as required by Condition 2.	

Commissioning phase

4. The Works Approval Holder must conduct Commissioning of the dewatering pipelines for a period not exceeding one month.
5. The Works Approval Holder must notify the CEO within 7 days after, the completion of date of Commissioning.
6. The Works Approval Holder must provide to the CEO a Commissioning Report within one month of the completion date of Commissioning.
7. The Works Approval Holder must ensure the report required by Condition 7 of this Works Approval includes:
 - (a) A summary of the commissioning activities undertaken, including timeframes;
 - (b) Any discharges which occur
 - (c) A summary of any accidents or malfunctions which may have occurred
 - (d) A summary of process monitoring results obtained under Condition 12

Time limited operational phase

8. Upon completion of commissioning and the submission of the Environmental Compliance Report in accordance with conditions 2 and 3, the Works Approval Holder may conduct full dewatering operations for a period not exceeding six months from the completion date of Commissioning, or until a Licence for the operation is granted, whichever comes first.

Emissions

9. The Works Approval Holder must not cause any Emissions from the Works authorised through this Works Approval except for specified Emissions and general Emissions described in Column 1 of Table 3, subject to the exclusions, limitations or requirements specified in Column 2, of Table 3.

Table 3: Authorised Emissions table

Column 1	Column 2
Emission type	Exclusions/Limitations/Requirements
Specified Emissions	
Dewatering discharge to the following locations: Havana pit Mulgarrie pit Jakarta pit Federal North/South pits	Subject to compliance with Conditions 11 - 14
General Emissions (excluding Specified Emissions)	
Emissions which arise from undertaking the Works set out in Schedule 2.	Emissions excluded from General Emissions are: <ul style="list-style-type: none"> • Unreasonable Emissions; or • Emissions that result in, or are likely to result in, Pollution, Material Environmental Harm or Serious Environmental Harm; or • Discharges of Waste in circumstances likely to cause Pollution; or • Emissions that result, or are likely to result in, the Discharge or abandonment of Waste in water to which the public has access; or • Emissions or Discharges which do not comply with an Approved Policy; or • Emissions or Discharges which do not comply with prescribed standard; or • Emissions or Discharges which do not comply with the conditions in an Implementation Agreement or Decision; or • Emissions or Discharges the subject of offences under regulations prescribed under the EP Act, including materials discharged under the <i>Environmental Protection (Unauthorised Discharges)</i>

Column 1	Column 2
Emission type	Exclusions/Limitations/Requirements
	<i>Regulations 2004.</i>

Discharge of mine dewater

10. During the Time Limited Operational Phase, the Works Approval Holder must implement the controls specified in Column 1 of Table 4 and Column 2 of Table 4.

Table 4: Mine dewater discharge table

Column 1	Column 2
Site infrastructure and equipment	Operational controls
All receiving pits including: Havana pit Mulgarrie pit Jakarta pit Federal North/South pits	<ul style="list-style-type: none"> A minimum vertical freeboard of 6 m must be maintained below the lower crest level at all times. Must be inspected monthly (whilst operating) for freeboard capacity. A written log is required to be maintained for each inspection signed by the responsible person.
HDPE dewatering pipelines	<ul style="list-style-type: none"> An inspection is required for visual integrity and leak detection each 12 hourly shift. The inspections are to be at least 6 hours, and no more than 18 hours, apart. A written log is required to be maintained for each inspection, with the record of each inspection signed by the responsible person.
V-drains and scour pits	<ul style="list-style-type: none"> A 12 hourly inspection is required for visual integrity of the drains and scour pits A written log is required to be maintained for each inspection, with the record of each inspection signed by the responsible person.

Monitoring general

11. The Works Approval Holder must ensure that:
- All water samples are collected and preserved in accordance with AS/NZS 5667.1;

- (b) Monthly monitoring is undertaken at least 15 days apart; and
- (c) All monitoring equipment used on the Premises to comply with the Conditions of this Works Approval is calibrated in accordance with the manufacturer's specifications.

Process monitoring

- 12.** During the Time Limited Operational Phase, the Works Approval Holder must monitor the parameters specified in Column 2 of Table 5, from the locations specified in Column 1 of Table 5. Parameters must be monitored in the units specified in Column 3, and at the frequency specified in Column 4.

Table 5: Mine dewater process monitoring

Column 1	Column 2	Column 3	Column 4
Location ¹	Parameter	Units	Frequency
Havana pit	Volumetric flow rate	kL	Continuous
Mulgarrie pit	Standing water level	metres below pit crest level	Monthly
Jakarta pit			
Federal North/South pits	pH ²	-	Monthly
	Total dissolved solids ¹	mg/L	Monthly

Note 1: Where the location is in existence and has been connected to the works in Condition 1.

Note 2: In-field non-NATA accredited analysis permitted.

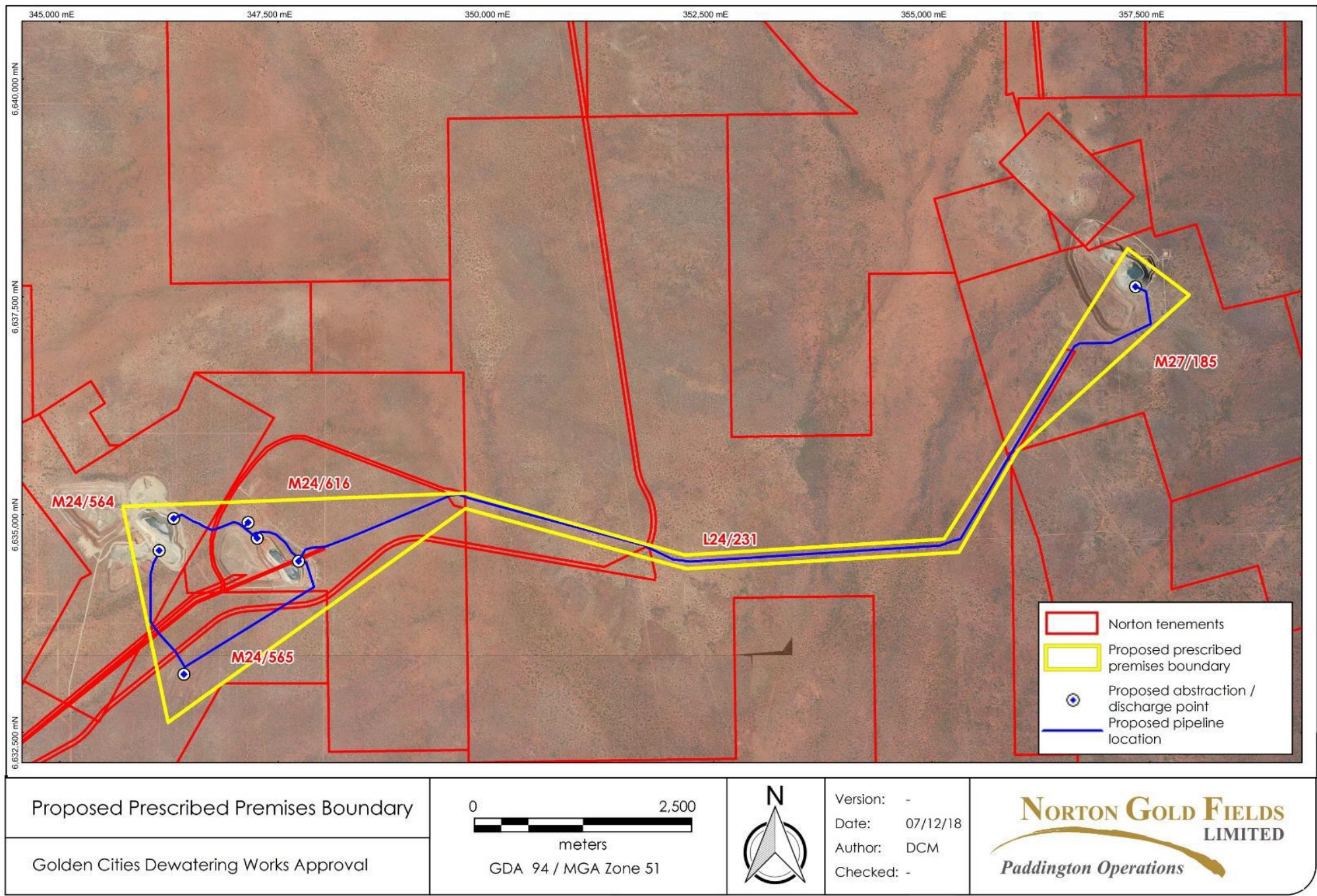
Record-keeping

- 13.** The Works Approval Holder must maintain accurate Books including information, reports and data in relation to the Works and the Books must:
- (a) be legible;
 - (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;
 - (c) be retained for at least 3 years from the date the Books were made;
 - (d) be available to be produced to an Inspector or the CEO.
- 14.** The Works Approval 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 are shown in the map below.



Schedule 2: Works

At the time of assessment, Emissions and Discharges from the Works listed in Table 5 were considered in the determination of the risk and related Conditions for the Works Approval.

Table 4: Authorised Works

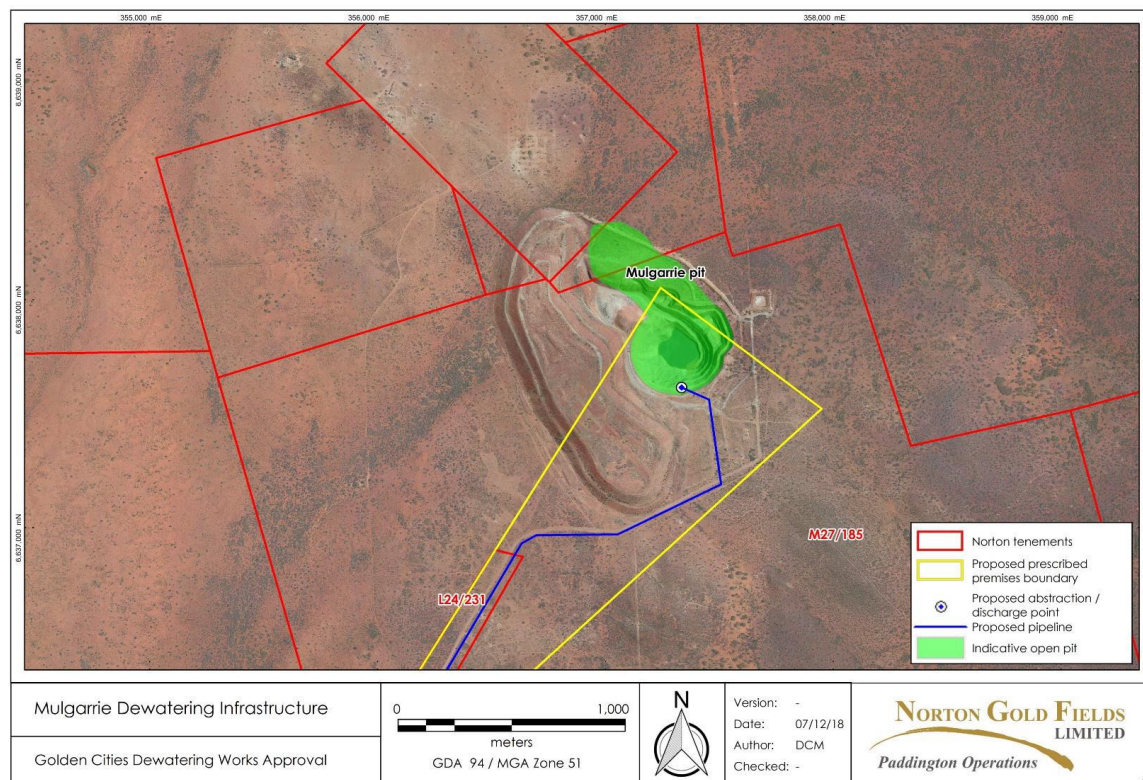
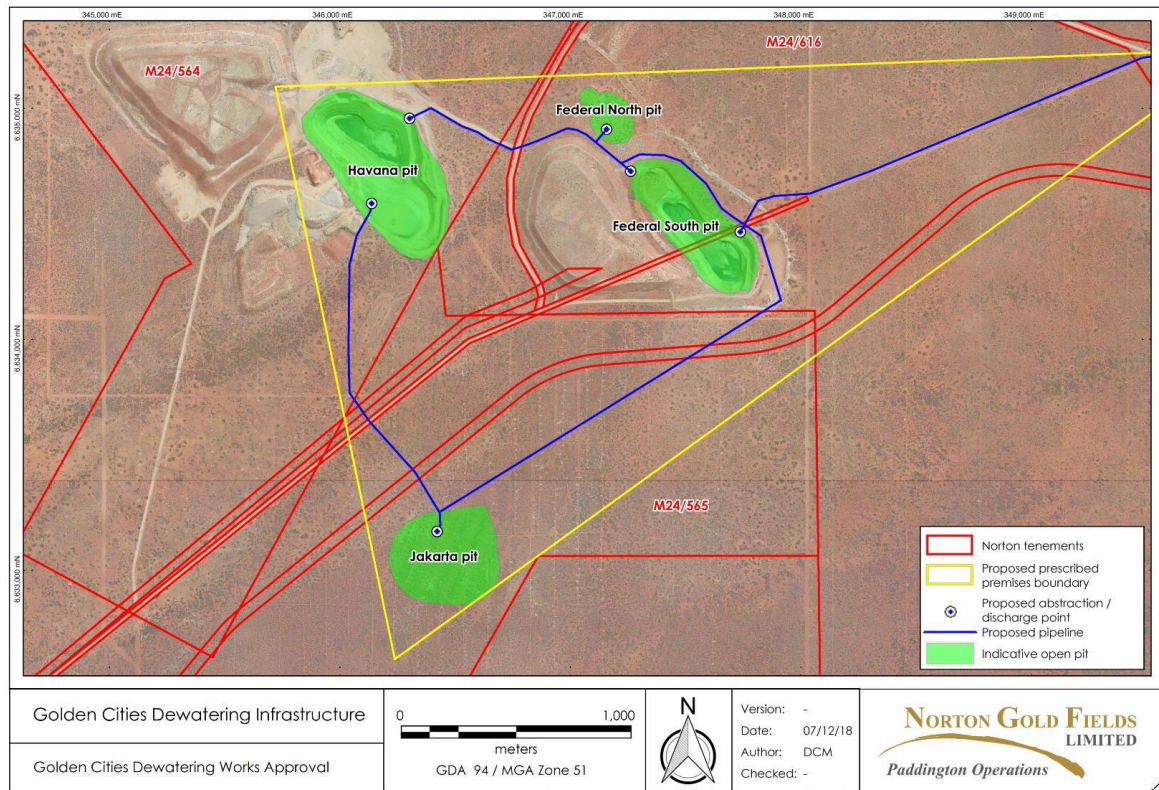
Works
HDPE dewatering pipelines.
V-drain pipeline bunding, with scour pits located at 500m intervals

Site layout

The infrastructure and equipment are set out on the Premises in accordance with the site layout specified on the Premises map in Schedule 1.

Schedule 3: Monitoring

Locations of discharge and monitoring points



W6244/2019/1

IR-T05 Works Approval Template v2.0 (July 2017)