

Works Approval

Works approval number	W6572/2021/1	
Works approval holder ACN Registered business address	Agnew Gold Mining Pty Ltd 098 385 883 Level 4/235 St Georges Terrace WEST PERTH	
DWER file number Duration	WA 6000 DER2021/000395 24/9/2021 to 24/9/2025	
Date of issue	24 September 2021	
Premises details	Legal description Mining tenement M36/53 LEINSTER WA 6437	

Prescribed premises category description	Assessed design	
(Schedule 1, <i>Environmental Protection Regulations 1987</i>)	capacity	
 Category 85: 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. 	80 cubic metres per day	

This works approval is granted to the works approval holder, subject to the attached conditions, on 24 September 2021, by:

Christine Pustkuchen A/SENIOR ENVIRONMENTAL OFFICER – RESOURCE INDUSTRIES

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

Works approval history

Date	Reference number	Summary of changes
24/9/2021	W6572/2021/1	Construction of sewage facility and addition of category 85 to the prescribed premises.

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.	Infrastructure Biomax Wastewater treatment plant (WWTP)		
		• WWTP to have a contingency storage capacity of up to two days of normal flow in the event the discharge is suspended.	

	Infrastructure	Design and construction / installation requirements	Infrastructure location
2.	Irrigation spray field	 Area of spray field must be at least 4 hectares; Sprinklers must be positioned to ensure even distribution of wastewater; and Fence with visible safety signage installed to deter access. 	As specified in Figure 3 of Schedule 1.

Compliance reporting

- 2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being installed:
 - (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 qualified, competent civil or structural 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.

Time limited operations phase

Commencement and duration

- **4.** The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 1 where the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder for that item of infrastructure.
- **5.** The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 6:
 - (a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 3 for that item of infrastructure; or
 - (b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the Environmental Protection Act 1986, if one is granted before the end of the period specified in condition 5(a).

Time limited operations requirements and emission limits

6. During time limited operations, the works approval holder must ensure that the premises 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.

	Site infrastructure and equipment	Operational requirement	Infrastructure location
1.	Wastewater treatment plant	 Flow meters must be maintained on the WWTP inlet and outlet to the irrigation spray field Sludge is contained within sealed sludge tanks prior to removal by a licensed waste carried for disposal to an appropriately authorised facility Spills of wastewater or chemicals outside of a vessel / container must be cleaned up immediately. 	As specified in Figure 2 of Schedule 1.
2.	Irrigation spray field	 Irrigation area must be 4 hectares and must be managed to prevent ponding and pooling of effluent in the ground surface of the irrigation discharge area. 	As specified in Figure 3 of Schedule 1.

Table 2 Infrastructure and equipment requirements during time limited operations

7. During time limited operations, the works approval holder must ensure that the emission specified in Table 3, are discharged only from the corresponding discharge point and only at the corresponding discharge location.

Table 3 Authorised discharge points

Emission	Discharge point	Discharge location
Treated effluent	Sprinklers within the irrigation spray field	As specified in Figure 3 of Schedule 1

Monitoring during time limited operations

8. The works approval holder must monitor emissions during time limited operations in accordance with Table 4.

Table 4 Emissions and discharge monitoring during time limited operations

Discharge point	Monitoring location	Parameter	Frequency	Averaging Period	Unit
Irrigation	Irrigation WWTP spray field outlet	E. coli	Weekly	Spot sample	cfu/100mL
spray lielu		Total coliforms			
		BOD₅			mg/L
		Total suspended solids			
		Total Nitrogen			
		Total Phosphorous			

Discharge point	Monitoring location	Parameter	Frequency	Averaging Period	Unit
		Cumulative flow volume	Continuous	N/A	m ³
		pH ¹	Daily or		pH units
		Residual chlorine ¹	continuous online		mg/L

Note 1: In-field non-NATA accredited analysis permitted.

- 9. For monitoring activity required by condition 8, the works approval holder must:
 - (a) record the results;
 - (b) handle and preserve all water samples collected during the monitoring of the WWTP in accordance with AS5667.1:1998; and
 - (c) have analysis conducted by a laboratory with current National Association of Testing Authorities (NATA) accreditation for the parameters specified.

Compliance reporting

- **10.** The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 30 calendar days before the expiration date of the works approval, whichever is the sooner.
- **11.** The works approval holder must ensure the report required by condition 10 includes the following:
 - (a) a summary of the time limited operations, including timeframes and amount of waste and effluent processed;
 - (b) a summary of emission and discharge monitoring results obtained during time limited operations under condition 8.
 - (c) a summary of the environmental performance of all infrastructure as constructed or installed;
 - (d) a review of performance and compliance against the conditions of the works approval; and
 - (e) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures.

Records and reporting (general)

- **12.** 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.
- **13.** 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 6;
 - (c) monitoring programmes undertaken in accordance with condition 8; and
 - (d) complaints received under condition 12.
- **14.** The books specified under condition 13 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 5 have the meanings defined.

Table 5: 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</i> 1986 Locked Bag 10 Joondalup DC WA 6919 <u>info@dwer.wa.gov.au</u>
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	Environmental Protection Act 1986 (WA).
EP Regulations	Environmental Protection Regulations 1987 (WA).
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 2) in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
Qualified, Competent Civil or Structure Engineer	 Means a person who: (a) holds a Bachelor's degree recognised by Engineers Australia; and (b) has a minimum of five years of experience working in a supervisory role in civil or structural engineering; and (c) is employed by an independent third party external to the Works Approval Holder's business; or is otherwise approved in writing by the CEO to act in this capacity.
time limited	refers to the operation of the infrastructure and equipment

Term	Definition
operations	identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
waste	has the same meaning given to that term under the EP Act.
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 (L411/1987/11) is shown in the map below (Figure 1).



Figure 1: Map of the boundary of the prescribed premises



Figure 2 Map of existing Wastewater Treatment Plant (Biomax facility) and area of proposed expansion



Figure 3 Irrigation Spray Field (blue)



Figure 4 Wastewater treatment plant construction

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IR-T05 Works approval template (v5.0) (February 2020)