



Works Approval

Environmental Protection Act 1986, Part V

Works Approval Holder: **Paddington Gold Pty Ltd**

Works Approval Number: **W5922/2015/1**

Registered office: Level 1, Viskovich House
377 Hannan St
KALGOORLIE WA 6430

ACN: 008 585 886

Premises address: Racetrack West Dewatering Project
Part mining tenements M24/166, M24/302 and M24/155
KALGOORLIE WA 6430

Issue date: Thursday, 7 January 2016

Commencement date: Monday, 11 January 2016

Expiry date: Thursday, 10 January 2019

The following category/s from the *Environmental Protection Regulations 1987* cause this Premises to be a prescribed premises for the purposes of the *Environmental Protection Act 1986*:

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
6	Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	50 000 tonnes or more per year	1,500,000 tonnes per year

Conditions

This Works Approval is subject to the conditions set out in the attached pages.

Date signed: 7 January 2016

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Danielle Eyre
Senior Manager – Industry Regulation (Resource Industries)
Officer delegated under section 20
of the *Environmental Protection Act 1986*



Works Approval Conditions

1 General

1.1 Interpretation

1.1.1 In the Works Approval, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 In the Works Approval, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Director General

Department administering the *Environmental Protection Act 1986*

Locked Bag 33

CLOISTERS SQUARE WA 6850

Email: info@der.wa.gov.au;

'Commissioning' means the process of operation and testing that verifies the works and all relevant systems, plant, machinery and equipment have been installed and are performing in accordance with the design specification set out in the works approval application;

'Premises' means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Works Approval;

'Schedule 1' means Schedule 1 of this Works Approval unless otherwise stated;

'Works Approval' means this Works Approval numbered W5922/2015/1 issued under the Act;

'Works Approval Holder' means the person or organisation named as the Works Approval Holder on page 1 of the Works Approval;

1.1.3 Any reference to an Australian or other standard in the Works Approval means the relevant parts of the standard in force from time to time during the term of this Works Approval.

1.1.4 Any reference to a guideline or code of practice in the Works Approval means the current version of the guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guidelines or code of practice made during the term of this Works Approval.

1.2 General conditions

1.2.1 The Works Approval Holder shall construct the works in accordance with the documentation detailed in Table 1.2.1:

Table 1.2.1: Construction Requirements¹

Document	Parts	Date of Document
Racetrack West Dewatering License Application, Paddington Gold Pty Ltd, Norton Gold Fields Limited	All, including Drawings and Appendices	September 2015

Note 1: Where the details and commitments of the documents listed in condition 1.2.1 are inconsistent with any other condition of this works approval, the conditions of this works approval shall prevail.



2 Information

2.1 Reporting

2.1.1 The Works Approval Holder shall submit a compliance document to the CEO, following the construction of the works and prior to commissioning of the same.

2.1.2 The compliance document shall:

- (a) certify that the works were constructed in accordance with the conditions of the works approval;
- (b) be signed by a person authorised to represent the Works Approval Holder and contain the printed name and position of that person within the company.

2.2 Notification

2.2.1 The Works Approval Holder shall ensure that the parameters listed in Table 5.2.1 are notified to the CEO and are in accordance with the notification requirements of the table.

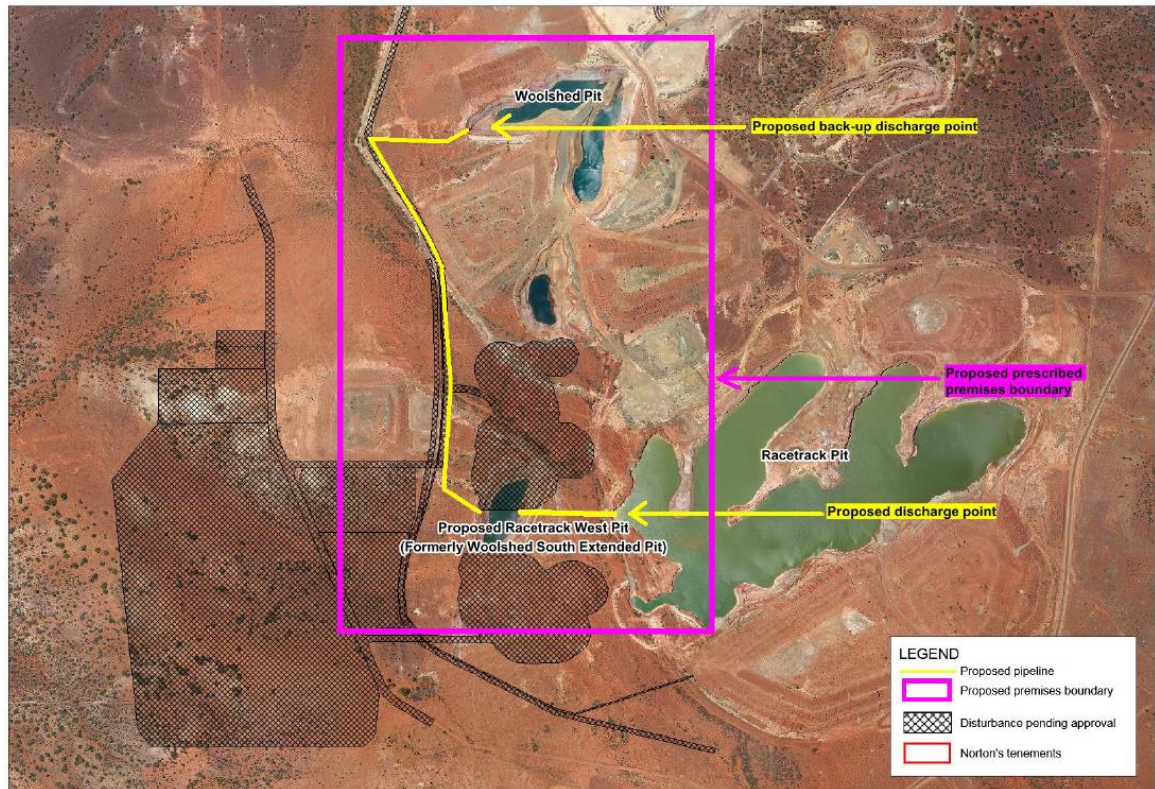
Table 5.2.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement	Format or form
1.2.4	Commencement of commissioning	24 hours prior to start	None specified
	Completion of commissioning	24 hours after completion	



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The pink line depicts the Premises boundary.





Decision Document

Environmental Protection Act 1986, Part V

Proponent: **Paddington Gold Pty Ltd**

Works Approval: **W5922/2015/1**

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Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue a works approval. DER considers that in reaching this decision, it has taken into account all relevant considerations and legal requirements and that the Works Approval and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Saorla Finucane
 Licensing Officer

Decision Document authorised by: Danielle Eyre
 Delegated Officer



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1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

2 Administrative summary

Administrative details		
Application type	Works Approval <input checked="" type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Mine Dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	Category number(s) 6	Assessed design capacity 1,500,000 tonnes per annual period
Application verified	Date: 23/10/2015	
Application fee paid	Date: 12/11/2015	
Works Approval has been complied with	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Compliance Certificate received	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>	
Commercial-in-confidence claim	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Ministerial statement No: EPA Report No:



Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i>)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

3 Executive summary of proposal and assessment

Paddington Gold Pty Ltd (Paddington) is a wholly owned subsidiary of Norton Gold Fields Limited. The Paddington Mill is located 33km north-northwest of Kalgoorlie-Boulder, has a planned capacity of more than 150,000 ounces of gold annually from 3.5 million tonne of ore, and is one of the larger gold mining and processing operations in the region.

Norton's Paddington Operations current projects include:

- Fort Scott open pit, located approximately 10km south-west of Kalgoorlie Boulder in the Binduli project area;
- Homestead underground Operations, located approximately 35km north-west of Kalgoorlie Boulder;
- Bullant underground and Wattlebird open pit operations, located approximately 65km north-east of Kalgoorlie-Boulder;
- Enterprise open pit operations, located 68km north west of Kalgoorlie Boulder; and
- A number of other ancillary sources such as low grade stockpiles and third party mining operations.

All of the ore produced from Norton's Paddington Operations is processed through the Paddington Mill. Tailings from the Paddington Mill are deposited into the adjacent Paddington In-pit Tailings Facility. The Paddington Mill is operated under the Environmental Protection (Gold Extraction Operations) Exemption Order of 1993.

Racetrack West Mining Proposal tenements include M24/166, M24/155, M24/304 and M24/302. These tenements contain mining-related infrastructure from historic mining of projects, but no dewatering infrastructure currently exists. This licence application focuses on tenements M24/166, M24/302 and M24/155.

The premises for dewatering discharge is between the current Woolshed South Extended pit (which once mined will amalgamate to form the 'Racetrack West pit' and will thereby be referred to in this document from now on as Racetrack West pit), Racetrack pit, and Woolshed pit as a back-up dewatering point to Racetrack pit. The Mount Pleasant complex is located approximately 37km north-west of Kalgoorlie Boulder. Racetrack West pit, Racetrack pit, and Woolshed pit are located within an approximate 1km distance of each other.



4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	W1.2.1	<p>Construction and Commissioning General conditions will be included in the Works Approval to ensure works are constructed in accordance with the supporting documentation.</p> <p>Operation Standard general conditions will apply to the Licence.</p>	<p>Application supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>
Premises operation	<p>W – no conditions</p> <p>L - conditions</p>	<p>Construction and Commissioning No premises operation conditions are required for the Works Approval.</p> <p>Abnormal Operation <u>Emission Description</u> <i>Emission:</i> Hypersaline mine dewater is transported in pipelines through areas of native vegetation. Emissions will occur if the pipeline were to rupture or leak. <i>Impact:</i> Contamination of surrounding soils with hypersaline water can cause vegetation stress or death. <i>Controls:</i> Paddington has committed to maintaining a high standard of environmental practice by the following measures:</p> <ul style="list-style-type: none"> • Service and maintenance of pumps, breathers, isolation valves and flow meters; • Bund and sump maintenance and upgrades when required; • 12 hourly pipeline inspections; • Site training and induction of all personnel working in the area; and • Dust suppression used on haul roads and as applicable access tracks. <p><u>Risk Assessment</u></p>	<p>Application supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Consequence:</i> Minor <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Conditions relating to pipelines will be included in the Licence. These conditions will ensure pipelines will be managed appropriately and corrective action is taken in the event they rupture or leak. A condition will also ensure that 12 hourly visual inspections are carried out for pipeline integrity.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Minor <i>Likelihood:</i> Rare <i>Risk Rating:</i> Low</p>	
Emissions general	W – no conditions L - conditions	No general emission conditions are required for the Works Approval, but general emission conditions will be applied to the Licence.	General provisions of the <i>Environmental Protection Act 1986</i> .
Point source emissions to air including monitoring	W – no conditions L – no conditions	Construction, Commissioning and Operation There will be no point source air emissions generated from the construction or operation of the dewatering project. No conditions are required for the Works Approval or Licence.	Application supporting documentation
Point source emissions to surface water including monitoring	W – no conditions L – no conditions	Construction, Commissioning and Operation There will be no point source emissions to surface water generated from the construction or operation of the dewatering project. No conditions are required for the Works Approval or Licence.	Application supporting documentation
Point source emissions to groundwater including monitoring	W – no conditions L - conditions	<p>Construction and Commissioning There will be no point source emissions to groundwater during construction of the dewatering project. No conditions for the Works Approval are required.</p> <p>Operation <u>Emission Description</u></p>	<p>Applicant supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p><i>Emission:</i> Hypersaline water is transported in pipelines from Racetrack West pit and discharged to Racetrack pit and Woolshed pit as a back-up dewatering point to Racetrack pit.</p> <p><i>Impact:</i> Possible mounding of the water table in the vicinity of the project with potential for impacts to native vegetation. The proponent has confirmed there are no groundwater dependent ecosystems in the vicinity of the Racetrack West project.</p> <p><i>Controls:</i> N/A</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Possible <i>Risk Rating:</i> Moderate</p> <p><u>Regulatory Controls</u> Licence conditions will be included to allow the discharge to occur and to ensure pit lake monitoring, along with measurement volumetric flow, pH and TDS is undertaken.</p> <p><u>Residual Risk</u> <i>Consequence:</i> Moderate <i>Likelihood:</i> Unlikely <i>Risk Rating:</i> Moderate</p>	
Emissions to land including monitoring	W – no conditions L – no conditions	<p>Construction, Commissioning and Operation There will be no emissions to land generated from the construction or operation of the dewatering project. No conditions are required for the Works Approval or Licence.</p>	<p>Applicant supporting documentation</p> <p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>
Fugitive emissions	W – no conditions L – no conditions	<p>Construction, Commissioning and Operation No significant fugitive emissions are expected during the construction, commissioning and operation of the dewatering pipeline. No conditions are</p>	Applicant supporting documentation



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		required.	General provisions of the <i>Environmental Protection Act 1986</i> .
Odour	W – no conditions L – no conditions	Construction, Commissioning and Operation There will be no odour emissions generated from the dewatering project. No conditions are required for the Works Approval or Licence.	General provisions of the <i>Environmental Protection Act 1986</i> .
Noise	W – no conditions L – no conditions	Construction, Commissioning and Operation Noise impacts are not expected. The nearest sensitive human receptor is the town of Ora Banda, located 15km to the northeast of the project area. No conditions for the Works Approval or Licence are required.	<i>Environmental Protection (Noise) Regulations 1997</i>
Monitoring general	W – no conditions L - conditions	Construction and Commissioning No monitoring will be required under the Works Approval. Operation Monitoring will be included in the Licence, therefore general monitoring conditions will be included to specify that monitoring is carried out in accordance with relevant guidelines and standards.	General provisions of the <i>Environmental Protection Act 1986</i> .
Monitoring of inputs and outputs	W – no conditions L – no conditions	Construction, Commissioning and Operation No monitoring of inputs or outputs is required for the Works Approval or Licence.	N/A
Process monitoring	W – no conditions L – no conditions	Construction, Commissioning and Operation No process monitoring is required for the Works Approval or Licence.	N/A
Ambient quality monitoring	W – no conditions L – no conditions	No ambient monitoring is required for the Licence for the dewatering activities. See the emissions to groundwater section of this table for monitoring requirements.	N/A
Meteorological monitoring	W – no conditions L – no conditions	No meteorological conditions are required for the Works Approval or Licence.	N/A
Improvements	W – no conditions L – no conditions	No improvements are required for the Works Approval or Licence.	N/A
Information	W2.1.1 – 2.2.1	Standard conditions are listed on the Works Approval for the submission of a compliance document at the end of each construction phase.	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
	L – no conditions	Standard conditions will be included on the Licence relating to the management of records and complaints, notification requirements and the submission of an annual audit compliance report and annual environmental report are included on the Licence.	
Licence Duration	N/A	The Works Approval will be issued for a duration of three years in accordance with DER's Guidance Statement on Licence Duration.	Guidance Statement on Licence Duration

5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
23/10/2015	Application advertised in West Australian (or other relevant newspaper)	No comments received	N/A
23/10/2015	Local government sent a copy of draft instrument: City of Kalgoorlie Boulder	Submission from the City of Kalgoorlie Boulder responded to acknowledge receipt of the stakeholder letter. No further comment provided.	N/A
29/12/2015	Proponent sent a copy of draft instrument	Administrative errors identified	Corrected



6 Risk Assessment

Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management

Table 1: Emissions Risk Matrix

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High