



## Application for Works Approval Amendment

### Part V Division 3 of the *Environmental Protection Act 1986*

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|                              |  |
|------------------------------|--|
| <b>Works Approval Number</b> | W6244/2019/1   |
| <b>Works Approval Holder</b> | Paddington Gold Pty Ltd  |
| <b>ACN</b>                   | 008 585 886  |
| <b>File Number</b>           | DER2020/001042-3~95  |
| <b>Premises</b>              | Golden Cities (Mulgarrie)<br><br>Mining tenements<br>M24/564, M24/565, M24/616, M27/185, L24/231<br><br>As defined by the Premises maps attached to the Revised Works Approval |
| <b>Date of Report</b>        | 03/05/2022   |
| <b>Decision</b>              | Revised works approval granted   |

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

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## 1. Decision summary

Works approval W6244/2019/1 is held by Paddington Gold Pty Ltd (Paddington Gold, works approval holder) for the Golden Cities (Mulgarrie) (the Premises), located at mining tenements M24/564, M24/565, M24/616, M27/185 and L24/231.

This amendment report documents the assessment of potential risks to the environment and public health from proposed changes to the emissions and discharges during the construction and operation of the Premises. As a result of this assessment, a revised works approval W6244/2019/1 has been granted.

The revised works approval issued as a result of this amendment supersedes the existing works approval previously granted in relation to the Premises. The revised works approval has been granted in a new format with existing conditions being transferred, but not reassessed, to the new format.

## 2. Scope of assessment

### 2.1 Regulatory framework

In completing the assessment documented in this amendment report, the department has considered and given due regard to its regulatory framework and relevant policy documents which are available at <https://dwer.wa.gov.au/regulatory-documents>.

### 2.2 Application summary

On 14 April 2022 the works approval holder submitted an application to the department to amend Works Approval W6244/2019/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act).

The works approval holder seeks to amend the location of the dewatering pipeline for Stage 3 (between Jakarta Pit and Federal Pit), already approved under W6244/2019/1, to reduce land disturbance, reduce potential for hypersaline spill interaction with vegetation and increase visibility during pipeline inspection routine.

Paddington Gold is not applying for an increase of throughput associated with dewatering.

## 3. Risk assessment

The department assesses the risks of emissions from prescribed premises and identifies the potential source, pathway and impact to receptors in accordance with the *Guidance Statement: Risk Assessments* (DER 2017).

To establish a Risk Event there must be an emission, a receptor which may be exposed to that emission through an identified actual or likely pathway, and a potential adverse effect to the receptor from exposure to that emission. Given the low risk and minor nature of the amendment stakeholder consultation was not undertaken by the department.

### 3.1 Source-pathways and receptors

#### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathways during construction and operation have been considered in this Amendment Report and are detailed in Table 1 below.

Table also details the proposed control measures the Works Approval Holder has proposed to assist in controlling these emissions, where necessary.

**Table 1: Works Approval Holder controls**

| Emission                 | Sources  | Potential pathways       | Proposed controls  |
|--------------------------|--|--------------------------|--|
| Dust                     | Construction and installation of dewatering pipelines          | Air/windborne pathway    | Use of water carts to control dust – applied at low pressure with dribble bars to prevent overspray onto vegetation and topsoil stockpiles.  |
| Noise                    | Construction and installation of dewatering pipelines          | Air/windborne pathway    | Not listed in existing works approval conditions.<br>The applicant has listed “if required, place noise barrier around pump”   |
| Hypersaline mine dewater | Operation of dewatering pipelines (dewater from Mulgarrie pit) | Direct discharge to land | <u>Existing works approval conditions:</u><br>Installation of pipelines within scour pits and v-drains.<br>12 hourly inspections of pipelines, v-drains, scour pits<br>Leak detection<br>Pipelines constructed by Australian standards: <ul style="list-style-type: none"> <li>• AS/NZS 2033:3008</li> <li>• AS/NZS 4129:2008</li> <li>• AS/NZS 4130:2009</li> <li>• AS/NZS 4131:2010</li> </ul> |

### 3.1.2 Receptors

In accordance with the *Guidance Statement: Risk Assessment* (DER 2017), the Delegated Officer has excluded employees, visitors and contractors of the Works Approval Holder’s from its assessment. Protection of these parties often involves different exposure risks and prevention strategies, and is provided for under other state legislation.

Table 2 below provides a summary of potential human and environmental receptors that may be impacted as a result of activities upon or emission and discharges from the prescribed premises (*Guidance Statement: Environmental Siting* (DER 2016)). The closest town is Broad Arrow, 12km west of the premises. The Delegated Officer considers that given the distance of the premises, it is unlikely that any identified risk event would impact this receptor. As such, the risk is not considered to be significant enough to warrant further assessment.

**Table 2: Sensitive environmental receptors and distance from prescribed activity**

| Environmental receptors   | Distance from prescribed activity   |
|---|---|
| Five threatened fauna species and five migratory species occurring within the project area following a targeted fauna and malleefowl survey in 2017<br>22 Malleefowl mounds identified within the project area. | Within the site premises<br>Closest mound (inactive) located 300m from Modified Pipeline. |

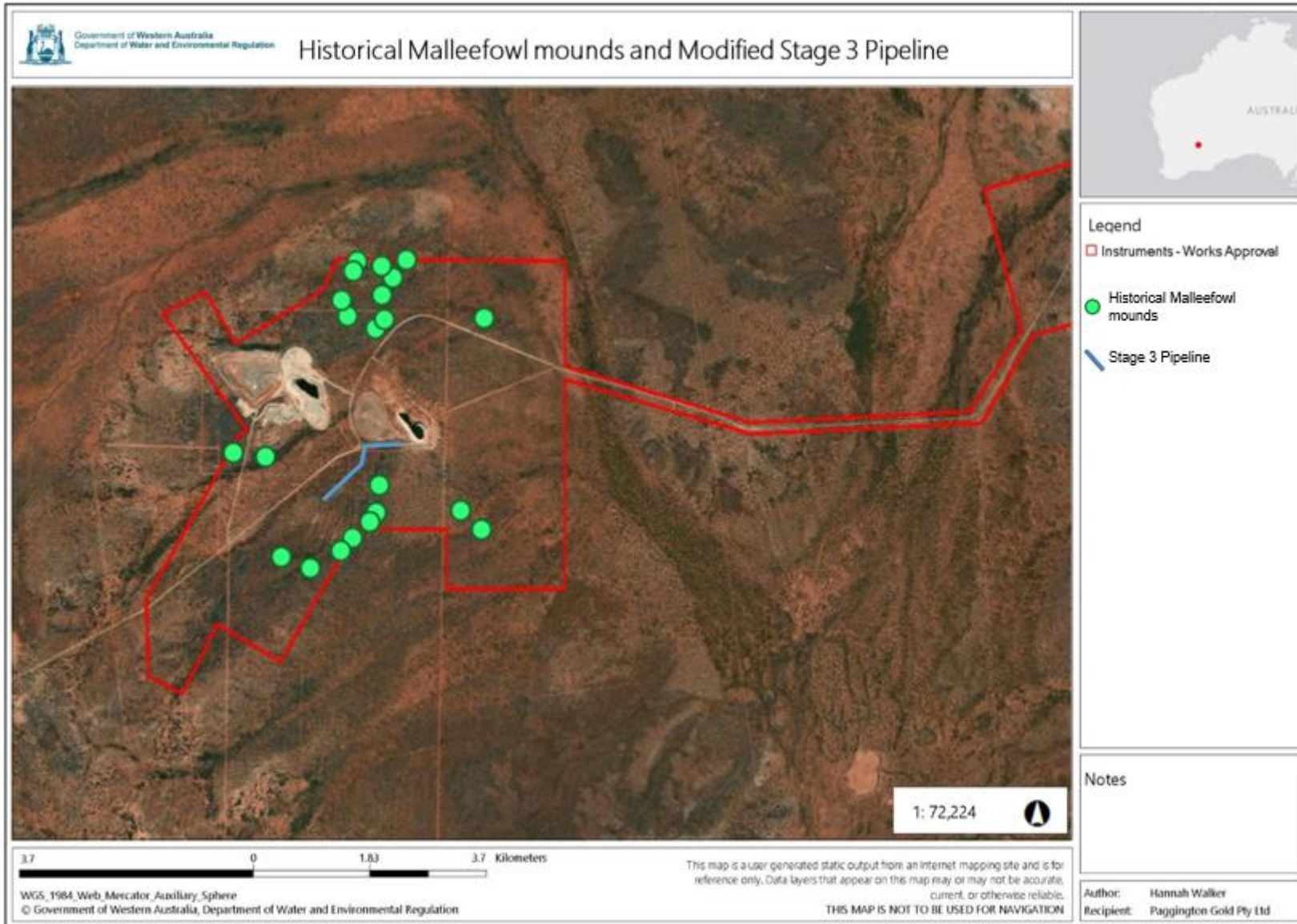


Figure 1: Distance of Proposed Modified pipeline (Stage 3) (original W6244/20191) to Malleefowl mounds

## 4. Risk ratings

Risk ratings have been assessed in accordance with the *Guidance Statement: Risk Assessments* (DER 2017) for those emission sources which are proposed to change and takes into account potential source-pathway and receptor linkages as identified in Section 3.1. Where linkages are in-complete they have not been considered further in the risk assessment.

Where the Works Approval Holder has proposed mitigation measures/controls (as detailed in Section 3.1), these have been considered when determining the final risk rating. Where the Delegated Officer considers the Works Approval Holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the Works Approval as regulatory controls.

Additional regulatory controls may be imposed where the Works Approval Holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 3.

The Revised Works Approval W6244/2019/1 that accompanies this Amendment Report authorises construction and time-limited operations. The conditions in the Revised Works Approval have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

A licence is required following the time-limited operational phase authorised under the works approval to authorise emissions associated with the ongoing operation of the Premises i.e. category 6 activities. A risk assessment for the operational phase has been included in this Amendment Report, however licence conditions will not be finalised until the department assesses the licence application.

**Table 3. Risk assessment of potential emissions and discharges from the Premises during construction, commissioning and operation**

| Risk Event   |   |   |   |                                  | Risk rating <sup>1</sup><br>C = consequence<br>L = likelihood | Conditions <sup>2</sup> of works approval   | Justification for additional regulatory controls   |
|--|---|---|---|----------------------------------|---|---|--|
| Source/Activities  | Potential emission  | Potential pathways and impact   | Receptors   | Works Approval Holder's controls |   |   |  |
| <b>Construction</b>  |   |   |   |                                  |   |   |  |
| Construction and installation of dewatering pipelines                  | Dust  | Air/windborne pathway causing impact to vegetation  | Native vegetation and Malleefowl within premises. | Refer to Section 3.1             | C = Slight<br>L = Unlikely<br><b>Low</b>                      | Given short construction timeframe, any dust impact to vegetation is expected to be minimal.  | N/A  |
|  | Noise   |   |   |                                  |   |   |  |
| <b>Commissioning and operation (including time-limited operations)</b> |   |   |   |                                  |   |   |  |
| New pipelines and dewatering infrastructure (breach)                   | Rupture of pipeline causing hypersaline discharge to land | Direct discharge onto soil and native vegetation causing topsoil contamination and plant stress or death.<br><br>Associated potential to impact Malleefowl within the premises. | Native vegetation and Malleefowl within premises. | Refer to Section 3.1             | C = Moderate<br>L = Possible<br><b>Medium</b>                 | <u>Modification to existing conditions:</u><br>Condition 1 (construction requirements)<br>Condition 5 (staged construction)<br>Conditions 6 – 9 (commissioning)<br>Condition 11 | Amendment to the location of pipeline stages 3, is not considered to pose significant additional risk to vegetation or malleefowl mounds identified.<br><br>Paddington Gold has submitted compliance and commissioning reports for stage one section of pipeline. Remaining segments have yet to be constructed. |

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guidance Statement: Risk Assessments* (DER 2017).

Note 2: Proposed Works Approval Holder's controls are depicted by standard text. **Bold and underline text** depicts additional regulatory controls imposed by department.

## 5. Conclusion

Based on the assessment in this Amendment Report, the Delegated Officer has determined that a Revised Works Approval will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 5.1 Summary of amendments

Table 1 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the Revised Works Approval as part of the amendment process.

**Table 1: Summary of works approval amendments**

| Condition no.                                | Proposed amendments   |
|--|---|
| 1 (Table 1) and Figures 2 and 3, Schedule 1. | Update the location of the stage 3 pipeline (Federal and Jakarta pipeline). |

## 6. References

1. Department of Environment Regulation (DER) 2016, *Guidance Statement: Environmental Siting*, Perth, Western Australia.
2. DER 2017, *Guidance Statement: Risk Assessments*, Perth, Western Australia.
3. DER 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
4. Paddington Gold Pty Ltd, 2020. Application and Supporting Documentation DWER reference A1931069
5. Poseidon Nickel and Paddington Gold Federal Pit access agreement DWER reference A1962742



## Appendix 1: Summary of Works Approval Holder's comments on risk assessment and draft conditions

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| Condition | Summary of Works Approval Holder's comment  | Department's response          |
|-----------|---|--------------------------------|
| 4         | Update proposed wording to condition 4 to include reference to Table 2  | The condition will be modified |
| 11        | Update Column 2 of Table 3, each 12 hour shift, to include terms "whilst operating" for HDPE dewatering pipelines and V-drains and scour pits | The condition will be modified |
| 13        | Update Column 4 of Table 4 to include term "whilst operating"   | The condition will be modified |

## Appendix 2: Application validation summary

|   |  |                                |              |
|---|--|--------------------------------|--------------|
| Amendment to works approval                                       | <input checked="" type="checkbox"/>  | Current works approval number: | W6244/2019/1 |
| Date application received   | 13/04/2022   |                                |              |
| <b>Applicant and Premises details</b>                             |  |                                |              |
| Applicant name/s (full legal name/s)                              | Paddington Gold Pty Ltd  |                                |              |
| Premises name   | Golden Cities  |                                |              |
| Premises location   | Part of Mining tenements M24/564, M24/565, M324/616, M27/185 and L24/231   |                                |              |
| Local Government Authority  | City of Kalgoorlie Boulder   |                                |              |
| <b>Application documents</b>                                      |  |                                |              |
| HPCM file reference number:                                       | DER2020/000062   |                                |              |
| Key application documents (additional to application form):       | <i>Attachment 2_revised Map 1 and Map 2</i>  |                                |              |
| <b>Scope of application/assessment</b>                            |  |                                |              |
| Summary of proposed activities or changes to existing operations. | <p><u>Works approval amendment</u></p> <p>Works Approval (W6244/2019/1) was granted on the 01/08/2019 and amended on the 04/01/2021.</p> <p><u>This Application:</u></p> <p>This Works Approval Application seeks to make an amendment to the location of the dewatering pipeline for Stage 3 (between Jakarta Pit and Federal Pit).</p> <p>A summary of the proposed changes to the location of the dewatering pipeline for Stage 3 is provided in Attachment 2 including updated Map 2 and 3 showing detailed locations.</p> <p>Tenements effected by amendment:</p> <p>M24/565 – Paddington Gold Pty Ltd</p> <p>M24/616 – Paddington Gold Pty Ltd</p> |                                |              |

**Category number/s (activities that cause the premises to become prescribed premises)**

**Table 1: Prescribed premises categories**

| Prescribed premises category and description  | Proposed production or design capacity | Proposed changes to the production or design capacity (amendments only) |
|---|--|---|
| Category 6<br>Mine Dewatering premises on which water is extracted and discharged into the environment to allow mining of ore | More than<br>500,000kL/year            | No change   |

**Legislative context and other approvals**

|  |   |  |
|--|---|--|
| Has the applicant referred, or do they intend to refer, their proposal to the EPA under Part IV of the EP Act as a significant proposal? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Referral decision No:<br>Managed under Part V <input type="checkbox"/><br>Assessed under Part IV <input type="checkbox"/>  |
| Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Ministerial statement No:<br>EPA Report No:  |
| Has the proposal been referred and/or assessed under the EPBC Act?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Reference No:  |
| Has the applicant demonstrated occupancy (proof of occupier status)?   | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | Certificate of title <input type="checkbox"/><br>General lease <input type="checkbox"/> Expiry:<br>Mining lease / tenement <input checked="" type="checkbox"/> Expiry:<br>M24/564 – Paddington Gold Pty Ltd – Expiry 03/11/2039<br>M24/565 – Paddington Gold Pty Ltd – Expiry 03/11/2039<br>M24/616 – Paddington Gold Pty Ltd – Expiry 18/02/2040<br>M27/185 – Norton Gold Fields Limited – Expiry 17/01/2037<br>L24/231 – Norton Gold Fields Limited – Expiry 14/11/2039<br>Other evidence <input type="checkbox"/> Expiry: |

|  |  |  |
|--|--|--|
| Has the applicant obtained all relevant planning approvals?  | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | Approval:<br>Expiry date:<br>If N/A explain why?   |
| Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                              | CPS No: 8316/1<br>Clearing permit 8316/1 for 300ha and valid until March 2023  |
| Has the applicant applied for, or have an existing CAWS Act clearing license in relation to this proposal?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                              | Application reference No: N/A<br>Licence/permit No: N/A  |
| Has the applicant applied for, or have an existing RIWI Act license or permit in relation to this proposal?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                              | License/permit No:<br>GWL 167686(4) valid until December 2022  |
| Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?  | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>                              | Name: Goldfields Groundwater area<br>Type: Proclaimed Groundwater Area<br>Has Regulatory Services (Water) been consulted?<br>Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>          |
| Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?   | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                              | Name: N/A<br>Priority: N/A<br>Are the proposed activities/ land use compatible with the PDWSA (refer to <a href="#">WQPN 25</a> )?<br>Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> |
| Is the Premises subject to any other Acts or subsidiary regulations (e.g. <i>Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx</i> ) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                              | Mining Act 1978 - as per existing works approval   |
| 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"/> |  |
| Is the Premises a known or suspected contaminated site under the <i>Contaminated Sites Act 2003</i> ? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | Classification: N/A<br>Date of classification: N/A |
|   |   |  |
|   |   |  |