



## Application for Licence Amendment

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

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Licence Number</b> | L9242/2020/1                                                                                                                                                                                                                                 |
| <b>Licence Holder</b> | Paddington Gold Pty Ltd                                                                                                                                                                                                                      |
| <b>ACN</b>            | 008 585 886                                                                                                                                                                                                                                  |
| <b>File Number</b>    | INS-0002123                                                                                                                                                                                                                                  |
| <b>Premises</b>       | <p>Golden Cities</p> <p>Mining tenements:</p> <p>M24/188, M24/251, M24/425, M24/557, M24/564, M24/565, M24/616, M24/878, M27/185, L24/228 and L24/231</p> <p>As defined by the coordinates and map in Schedule 2 of the revised licence.</p> |
| <b>Date of Report</b> | 29 October 2025                                                                                                                                                                                                                              |
| <b>Decision</b>       | Revised licence granted                                                                                                                                                                                                                      |

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# 1. Decision summary

Licence L9242/2020/1 is held by Paddington Gold Pty Limited (licence holder) for Golden Cities (the premises), located in Kanowna, Western Australia.

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 operation of the premises. As a result of this assessment, revised licence L9242/2020/1 has been granted.

## 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 Amendment summary

On 27 July 2025, the licence holder submitted an application to the department to amend licence L9242/2020/1 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Operation of Victory pit as a designated discharge point for hypersaline water;
- Extension of the prescribed premises boundary to include the Victory pit and associated dewatering pipeline; and
- Operation of the Jakarta pump station and Jakarta turkey's nest.

This amendment is limited only to changes to Category 6 activities from the existing licence. No changes to the aspects of the existing licence relating to Category 5 or Category 12 have been requested by the licence holder. No changes to the existing category throughput capacities have been proposed.

#### 2.2.1 Victory pit and associated dewatering pipeline

The Victory pit and associated dewatering pipeline was assessed under works approval W2886/2025/1. On 2 June 2025, an Environmental Compliance Report was submitted to the department to demonstrate construction compliance of the Victory pit dewatering pipeline. On 11 July 2025, it was determined the assessment of the Victory pit dewatering pipeline met the construction requirements of the works approval.

The Victory pit is to be used as a designated discharge location for hypersaline water to facilitate the mining of ore from open pits actively mined and dewatered under L9242/2020/1, currently including Federal and Havannah open pits. The discharge capacity to Victory pit will be approximately 2,200,000 kL (tonnes) per year.

The Victory pit dewatering pipeline (as shown in Figure 1) is connected to the existing Golden Cities dewatering network, specifically the previously constructed Jakarta to Golden Arrow pipeline. The pipeline is installed within secondary containment (earthen v-drains) to contain any leakages or spills and buried where it crosses the Goldfields Highway and the Kalgoorlie-Lenora Railway. The pipeline is fitted with electromagnetic (mag) flow meters linked to a telemetry system. This system compares 5-minute averaging periods to determine any faults in the pipeline; a flow difference greater than 2.5% will alert operators of the system fault. Additionally, a scour pit with a total containment volume of 308 cubic meters (m<sup>3</sup>) has been installed along the pipeline to ensure spill containment capacity is sufficient to contain the volume of water that may be released until detection. Routine inspections of the pipelines are

to be conducted twice daily. Pipeline testing was completed by recording 1,200 kPa (kilopascal unit) pressure within the pipeline for a total of 60 minutes. No visible leaks or defects were identified on both the pipeline and fitting, and air bleed valves were operating in good working condition.

**Table 1. Victory pit pipeline secondary containment dimension and volumes**

| Infrastructure         | Dimensions (m)    | Volume (m <sup>3</sup> ) |
|------------------------|-------------------|--------------------------|
| Scour pit              | 1.3 x 9.1 x 9.7   | 308                      |
| V-drain                | 0.7 x 4.0 x 762.0 | 1,448                    |
| <b>Total</b>           |                   | 1756                     |
| <b>Pipeline volume</b> |                   | 155                      |



**Figure 1. Victory pipeline route**

### 2.2.2 Jakarta pump station and turkey's nest

The Jakarta pump station and turkeys' nest were assessed under works approval W6717/2022/1. On 8 October 2025, following review of the Environmental Compliance Report submitted 16 July 2025, it was determined the assessment of the Jakarta pump station and Jakarta turkey's nest met the construction requirements of the works approval.

The Jakarta turkey's nest and pump station were constructed to facilitate the dewatering pipeline extension (added to the licence on 13 February 2025) by diverting and holding hypersaline water from the Jakarta to Golden Cities pipeline network, reducing the load on pumps sending water

large distances between pits. The pump station was installed adjacent to the Jakarta open pit to direct water into the pit in the event of significant release of water. If there should be an overflow at the turkey's nest, an overflow trench has been constructed to temporarily direct water back to the Jakarta pit (as seen in Figure 2).

The Jakarta turkey's nest is lined with high-density polyethylene (HDPE) and has a 10,000 m<sup>3</sup> capacity. The turkey's nest pump will operate under constant pressure rather than intermittently.

The Jakarta to Golden Arrow pipeline network is installed with mag flow meters and telemetry systems, similar to the Victory pit dewatering pipeline. Additionally, the pipelines have been equipped with automatic shutdown in the event of system failure or pipe faults.

Secondary containment has been installed alongside the pipeline based on topography and entry points of buried pipelines. Seven scour pits have been constructed, as well as v-drains along the pipeline excluding where it is buried. The secondary containment has been designed to contain any spill for the period equal to the time between routine inspections (as shown in Table 2).

**Table 2. Jakarta to Golden Arrow pipeline secondary containment dimensions and volumes**

| Infrastructure         | Dimensions (m)   | Volume (m <sup>3</sup> ) |
|------------------------|------------------|--------------------------|
| Scour pit 1            | 1.0 x 8.8 x 28.5 | 476                      |
| Scour pit 2            | 1.9 x 6.4 x 54.0 | 379                      |
| Scour pit 3            | 1.6 x 5.9 x 54.0 | 366                      |
| Scour pit 4            | 1.7 x 5.1 x 61.0 | 377                      |
| Scour pit 5            | 1.8 x 7.3 x 23.5 | 221                      |
| Scour pit 6            | 1.4 x 7.2 x 86.0 | 637                      |
| Scour pit 7            | 1.9 x 6.4 x 78.7 | 674                      |
| V-drain                | 6,738            | 13,476                   |
| <b>Total</b>           |                  | 16,606                   |
| <b>Pipeline volume</b> |                  | 846.72                   |

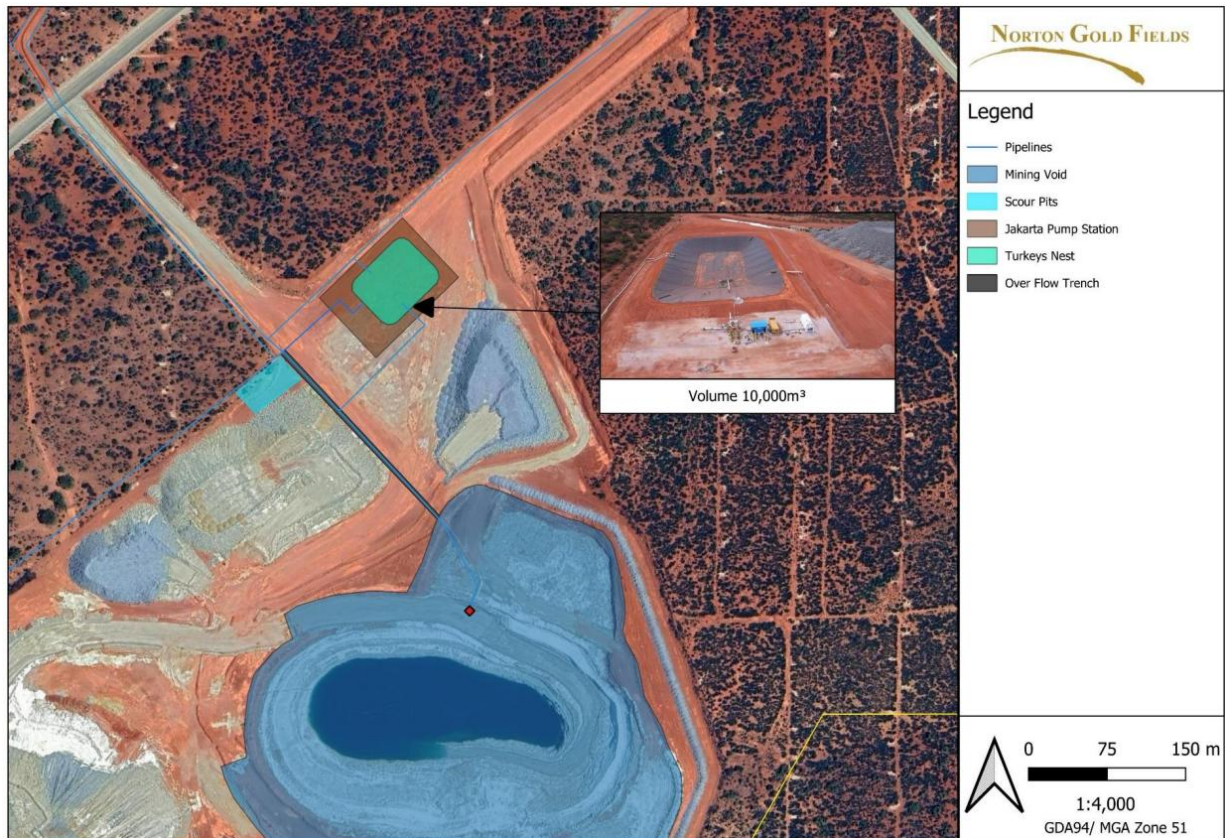


Figure 2: Jakarta pump station & turkey's nest

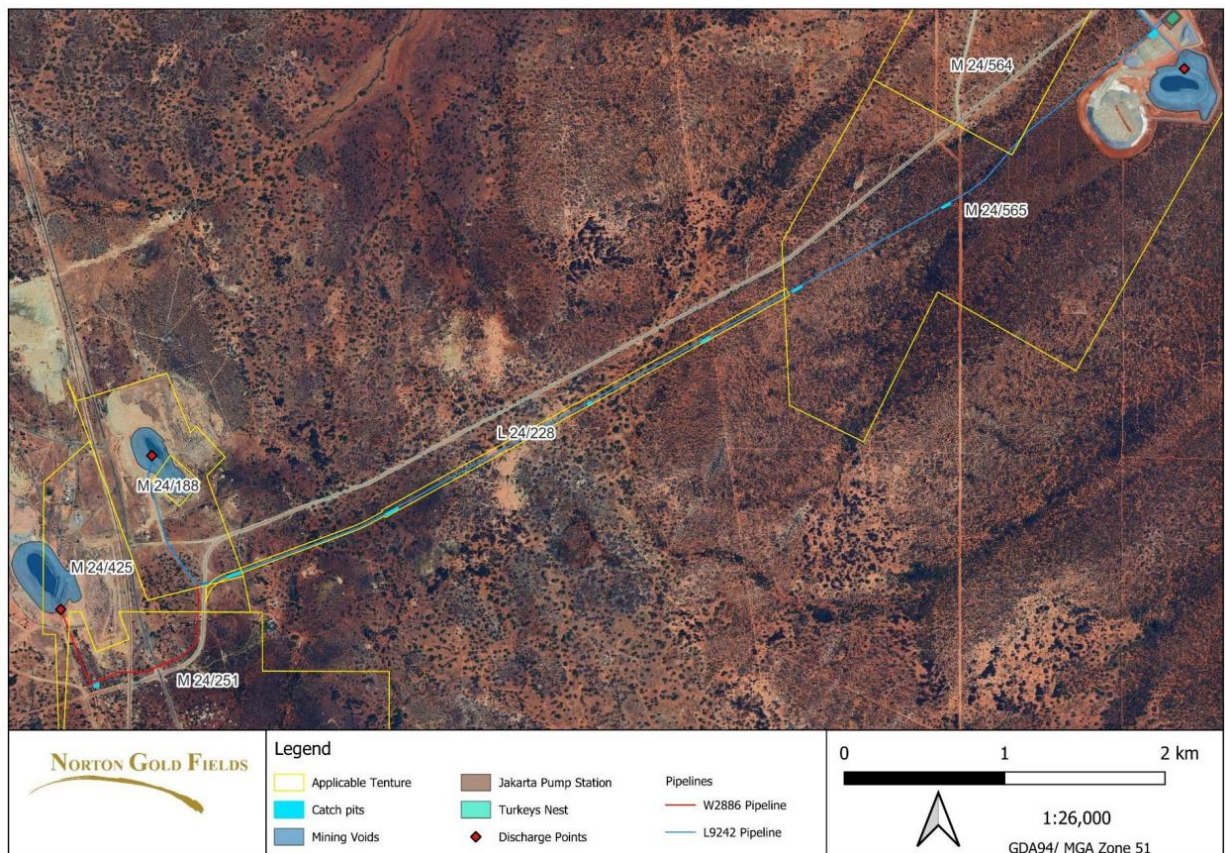


Figure 3: Jakarta to Golden Arrow pipeline

### 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 *Guideline: Risk assessments* (DWER 2020a).

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.

#### 3.1 Source-pathways and receptors

##### 3.1.1 Emissions and controls

The key emissions and associated actual or likely pathway during premises operation which have been considered in this amendment report are detailed in Table 3 below.

Table 3 also details the proposed control measures the licence holder has proposed to assist in controlling these emissions, where necessary.

**Table 3: Licence holder controls**

| Emission          | Sources                                                   | Potential pathways                               | Proposed controls                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------|-----------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hypersaline water | Discharge of hypersaline water into Victory pit           | Seepage causing groundwater mounding             | <ul style="list-style-type: none"> <li>Maintain a minimum 6 m freeboard</li> <li>Monitor water discharge in accordance with Table 4 of L9242/2020/1</li> </ul>                                                                                                                                                                                                                                                                         |
|                   | Operation of dewatering pipeline and Jakarta pump station | Spills, leaks and bursts causing overland runoff | <ul style="list-style-type: none"> <li>Pipelines are buried or maintained within a v-drain</li> <li>Scour pits are maintained</li> <li>Spill containment capacity sufficient to contain any spill for a period equal to the time between routine inspections</li> <li>Pipelines and pumps are to be inspected twice daily</li> <li>Telemetry systems with automatic cut-offs in the event of system and/or pipeline failure</li> </ul> |
|                   | Discharge of hypersaline water into Jakarta turkey's nest | Overtopping of turkey's nest                     | <ul style="list-style-type: none"> <li>A minimum 0.5 m vertical freeboard will be maintained</li> <li>Overflow channel to direct water to the Jakarta pit</li> </ul>                                                                                                                                                                                                                                                                   |
|                   |                                                           | Seepage causing groundwater mounding             | <ul style="list-style-type: none"> <li>The HDPE liner will be maintained in good working order</li> </ul>                                                                                                                                                                                                                                                                                                                              |

##### 3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020a), the Delegated Officer has excluded employees, visitors and contractors of the licence 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 4 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 (*Guideline: Environmental siting* (DWER 2020b)).

**Table 4: Sensitive human and environmental receptors and distance from prescribed activity**

| Human receptors                                                                           | Distance from prescribed activity                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Broad Arrow Tavern                                                                        | Situated 440 m northeast of the Victory pit pump                                                                                                                                                             |
| Road users on Goldfields Highway                                                          | Pipeline runs below the highway<br>Situated 430 m east from the Victory pit                                                                                                                                  |
| Environmental receptors                                                                   | Distance from prescribed activity                                                                                                                                                                            |
| Native vegetation                                                                         | Native vegetation adjacent to the Victory pit, Jakarta pump station/turkey's nest and associated the pipelines                                                                                               |
| Fauna<br><i>Leipoa ocellata</i> -Malleefowl (vulnerable)                                  | Seven malleefowl mounds (GC003-GC009) are situated between 630 m and 1014 m east, south and southwest of the turkey's nest*<br><br>Note * - taken from 2023 survey in previous W6717/2022/1 amendment report |
| Underlying groundwater (non-potable purposes) –<br>Goldfields Proclaimed Groundwater Area | Underlying the premises<br>At least 25 meters below ground level (mbgl)<br>Hypersaline ranging from 14,000 – 35,000                                                                                          |
| Cultural receptors                                                                        | Distance from prescribed activity                                                                                                                                                                            |
| Aboriginal heritage site –<br>Artefacts/scatter<br>ID 406 & ID 15989                      | 2 km northwest from the Victory pit<br>1.6 km south of Jakara turkey's nest and pump station<br><br><b>Receptor ruled out due to distance</b>                                                                |

## 3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020a) 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 licence 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 licence holder's proposed controls to be critical to maintaining an acceptable level of risk, these will be incorporated into the licence as regulatory controls.

Additional regulatory controls may be imposed where the licence holder's controls are not deemed sufficient. Where this is the case the need for additional controls will be documented and justified in Table 5.

The revised licence L9242/2020/1 that accompanies this amendment report authorises emissions associated with the operation of the premises i.e. Category 5: processing or beneficiation of metallic or non-metallic ore, Category 6: mine dewatering and Category 12: screening etc. of material.

The conditions in the revised licence have been determined in accordance with *Guidance Statement: Setting Conditions* (DER 2015).

**Table 5. Risk assessment of potential emissions and discharges from the premises during operation**

| Risk event                                          |                    |                                                                                          |                                                                                                      |                           | Risk rating <sup>1</sup><br>C = consequence<br>L = likelihood | Licence holder's controls sufficient? | Conditions <sup>2</sup> of licence                                                                                                  | Justification for additional regulatory controls/ DWER comments |
|-----------------------------------------------------|--------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|---------------------------|---------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Source/Activities                                   | Potential emission | Potential pathways and impact                                                            | Receptors                                                                                            | Licence holder's controls |                                                               |                                       |                                                                                                                                     |                                                                 |
| Discharge of hypersaline water into the Victory pit | Hypersaline water  | Seepage causing groundwater mounding having impacts to health of vegetation              | Groundwater<br>Native vegetation adjacent to the Victory pit                                         | Refer to Section 3.1      | C = Minor<br>L = Unlikely<br><b>Medium Risk</b>               | Y                                     | Condition 5 (Table 2): Infrastructure operational requirements.<br>Condition 7 (Table 4): Emissions and discharge pit monitoring    | N/A                                                             |
| Operation of dewatering pumps and pipelines         | Hypersaline water  | Spills , leaks and bursts causing overland runoff having impacts on health of vegetation | Native vegetation adjacent to the Jakarta pump station and dewatering pipeline.<br>Malleefowl mounds | Refer to Section 3.1      | C = Minor<br>L- Unlikely<br><b>Medium Risk</b>                | Y                                     | Condition 5 (Table 2): Infrastructure operational requirements.<br>Condition 8 (Table 5): Inspection requirements of infrastructure | N/A                                                             |
| Operation of Jakarta turkey's nest                  | Hypersaline water  | Overtopping of turkey's nest causing impacts on health of vegetation                     | Native vegetation adjacent to the Jakarta turkey's nest<br>Malleefowl mounds                         | Refer to Section 3.1      | C =Minor<br>L- Possible<br><b>Medium Risk</b>                 | Y                                     | Condition 5 (Table 2): Infrastructure operational requirements.                                                                     | N/A                                                             |
|                                                     |                    | Seepage causing groundwater mounding having impacts to health of vegetation              | Native vegetation adjacent to the Jakarta turkey's nest<br>Malleefowl mounds                         | Refer to Section 3.1      | C = Minor<br>L = Rare<br><b>Low Risk</b>                      | Y                                     | Condition 5 (Table 2): Infrastructure operational requirements.<br>Condition 8 (Table 5): Inspection requirements of infrastructure | N/A                                                             |

Note 1: Consequence ratings, likelihood ratings and risk descriptions are detailed in the *Guideline: Risk assessments* (DWER 2020).

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

## 4. Consultation

Table 6 provides a summary of the consultation undertaken by the department.

**Table 6: Consultation**

| Consultation method                                                    | Comments received | Department response |
|------------------------------------------------------------------------|-------------------|---------------------|
| Licence holder was provided with a draft amendment on 17 October 2025. | None received.    | N/A                 |

## 5. Conclusion

Based on the assessment in this amendment report, the Delegated Officer has determined that a revised licence will be granted, subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements.

### 5.1 Summary of amendments

Table 7 provides a summary of the proposed amendments and will act as record of implemented changes. All proposed changes have been incorporated into the revised licence as part of the amendment process. In addition to amended condition set, the Delegated Officer has determined to amend the premises boundary to include the Victory pit and associated dewatering pipelines.

**Table 7: Summary of licence amendments**

| Condition no.                                            | Proposed amendments                                                                                                                                                   |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cover page                                               | Updated date of amendment.                                                                                                                                            |
| Licence history                                          | Added licence amendment.                                                                                                                                              |
| Table 2: Infrastructure and equipment requirements       | Added Victory pit to Receiving pits.<br>Added Jakarta turkey's nest and its operational requirements.<br>Added Jakarta pump station and its operational requirements. |
| Table 3: authorised discharge points                     | Added Victory pit and Jakarta turkey's nest as authorised discharge points.                                                                                           |
| Table 4: Emissions and discharge monitoring              | Added Victory pit as a monitoring location.                                                                                                                           |
| Table 5: Inspections of infrastructure                   | Added Jakarta pump station, Victory pit and Jakarta turkey's nest into infrastructure to be inspected.                                                                |
| Table 6                                                  | Updated condition numbers to match the licence.                                                                                                                       |
| Figure 1: Premises layout including dewatering pipelines | Figure 1 has been replaced with an updated figure.                                                                                                                    |
| Figure 3: Scour pit dimensions and locations             | Figure 3 has been added.                                                                                                                                              |
| Figure 4: Jakarta turkey's                               | Figure 4 has been added.                                                                                                                                              |

|                                        |                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nest/pump station                      |                                                                                                                                                                  |
| Table 8: Premises boundary coordinates | Premises boundary coordinates have been updated to the GDA2020 (Geographic latitude/longitude) coordinate system and to include the premises boundary expansion. |
| Figure 5: Prescribed premises boundary | Figure 5 has been updated with the new premises boundary coordinates specified in Table 8.                                                                       |

## References

1. Department of Environment Regulation (DER) 2015, *Guidance Statement: Setting Conditions*, Perth, Western Australia.
2. Department of Water and Environmental Regulation (DWER) 2020a, *Guideline: Risk Assessments*, Perth, Western Australia.
3. Department of Water and Environmental Regulation (DWER) 2020b, *Guideline: Environmental Siting*, Perth, Western Australia.
4. Department of Water and Environmental Regulation (DWER) 2025, *Works Approval W2886/2025/1 and Decision Report*, Perth, Western Australia
5. Department of Water and Environmental Regulation (DWER) 2025, *Works Approval W6717/2022/1 and Amendment Report*, Perth, Western Australia
6. Norton Gold Fields Pty Limited (Paddington Gold Pty Limited) 2025, *Application form: Golden Arrow Pipe Combined*, Kalgoorlie, Western Australia.