Amendment Report

Application for Licence Amendment

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

Licence Number	L8569/2011/2
Licence Holder	Northern Star Resources (Carosue Dam) Pty Ltd
ACN	116649122
File Number	DER2021/000459
Premises	Porphyry (Edjudina) Gold Mine Shire of Menzies Legal description – Part of Mining tenements M31/3, M31/4, M31/5, M31/6, M31/30, M31/76, M31/380, M31/381, L31/44, L31/59, L31/62 and L31/63 As defined by the Premises maps attached to the Revised Licence
Date of Report	13 January 2022
Decision	Revised licence granted

Carmen Standring
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Date: 2022.01.13 11:49:26 +08'00'

A/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

Licence L8569/2011/2 is held by Northern Star (Carosue Dam) Pty Ltd (Licence Holder) for the Porphyry Gold Mine (the Premises), located at part of Mining tenements M31/3, M31/4, M31/5, M31/6, M31/30, M31/76, M31/380, M31/381, L31/44, L31/62 and L31/63 in Menzies.

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, Revised Licence L8569/2011/2 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 8 August 2021 and 28 September 2021, the Licence Holder submitted two separate applications to the department to amend Licence L8569/2011/2 under section 59 and 59B of the *Environmental Protection Act 1986* (EP Act). The following amendments are being sought:

- Mine dewatering activities
    - increasing the mine dewatering capacity from 2,000,000 to 3,000,000 tonnes per year;
    - construction of new dewatering pipelines to Margaret's and Enterprise pits from Porphyry pit; and
    - changing the Porphyry pit mine dewatering discharge point of the Million Dollar project to Porphyry Turkeys Nest Dam 1
- Bulk storage of Chemicals
    - increasing the hydrocarbon storage capacity from 220 cubic meters (m^3) to 880 m^3 in aggregate
- Changes to infrastructure requirements of hydrocarbon storage tanks in Table 1.3.4 of the licence.

This amendment is limited only to changes to Category 6 and 73 activities from the Existing Licence. No changes to the aspects of the Existing Licence relating to Category 64 has been requested by the Licence Holder.

Table 1 below outlines the proposed changes to the existing Licence.

Table 1: Proposed design or throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
6	1,000,000 tonnes per year	3,000,000 tonnes per year	Licence Holder plans to continue mining from Porphyry gold mine by further development of the existing pit and underground resources.

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
73	220 m^3 in aggregate	880 m^3 in aggregate	880 m^3 in aggregate being stored on the Premises, it does not trigger category 73 under Schedule 1 of the *Environmental Protection Regulations 1987* (EP Regulations). However, to prevent any impacts through potential discharges to the environment, Category 73 has been included on the licence.

2.3 Proposed activities

2.3.1 Mine dewatering

The Licence Holder anticipates continuing mining at Porphyry gold mine by developing the existing pit and the underground resources. Proposed works include initial dewatering to extract mine water in the current open pit and continue dewatering to allow mining the ore. The mined ore will continue to be transported to the Carosue Dam mill and Carbon in Leach (CIL) plant via haul roads for processing.

The Licence Holder proposes to discharge mine dewater from Porphyry pit into Margaret's pit and Enterprise pit. Margaret's pit currently holds 149ML of hypersaline water which has been concentrated over approximately 10 years during the period where the mine was under care and maintenance. The salinity of the mine water in Margaret's pit expected to be 82,000 mg/L Total Dissolved Solids (TDS). It is proposed that mine water at Margaret's pit will be transferred to the Enterprise pit (TDS 7,460 mg/L) at first and then the water from Porphyry pit (TDS 75,000 mg/L) to be transferred into Margaret's pit. Dewatering pipelines from Porphyry pit to Margaret's pit and Enterprise pit will be constructed to facilitate these activities.

Dewatering of Porphyry pit

Initial dewatering at Porphyry pit will occur via bore holes and once the water has been removed, mine water in the underground sump pumps will be extracted and discharged into the Porphyry open pit lake. Water will then be transferred to Margaret's Pit via dewatering a pipeline network (Figure 1). It is estimated that the dewatering rate will be 6.05ML per day for the period of this initial dewatering. During the operation, water will be pumped from Margaret's pit to Enterprise pitas as required in order to maintain the 6m freeboard limit. Pumping tests estimate that approximately 0.45ML per day dewatering rate will be required to ensure that the Porphyry pit will remain dry during mining operations. Salinity of the water is expected to be decreased significantly as the inflow water salinity is likely to be much lower in TDS levels.

The existing Turkey's nest which is located between Margaret's and Enterprise pits will be recommissioned and used to store water for dust suppression. The estimated rate of water usage for dust suppression will be 0.4ML per day. A 300mm freeboard will be maintained in this Turkey's nest at all times.

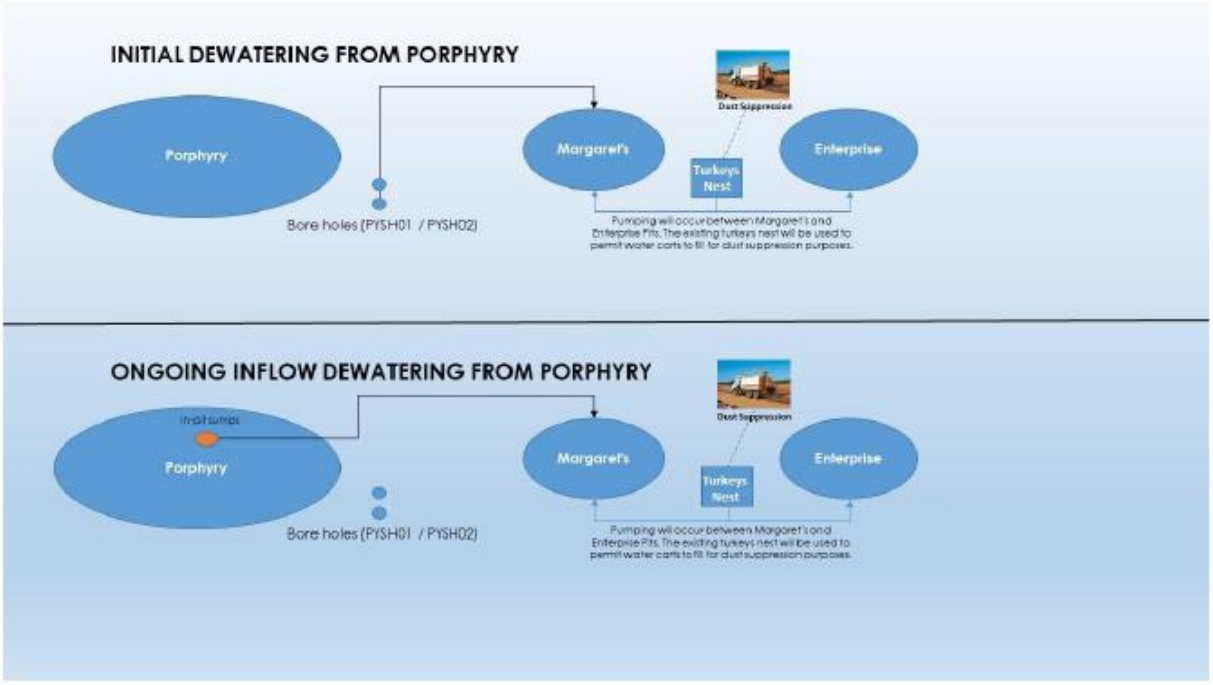

Figure 1: Flow diagram of the proposed mine dewatering at Porphyry gold mine

Dewatering of Million Dollar Pit

Currently, mine dewater from Million Dollar pit is discharged to the environment at two locations; Lake Rebecca discharge point and Porphyry pit discharge point. The Licence Holder has requested to change the Porphyry discharge point due to commencing dewatering from Porphyry pit. After submitting the above applications, the Licence Holder requested to change the Porphyry pit mine dewatering discharge point of the Million Dollar project to Porphyry Turkeys Nest Dam 1, where they propose to discharge Million Dollar project mine dewater into the Margaret's pit and Enterprise pit via the same Porphyry pipeline network.

Based on the supporting information, water from Million Dollar project will not have a significant impact on the volumes going to Margaret's pit and Enterprise pit as over the last nine months of dewatering the Million Dollar pit has only produced a total of 48.8ML. Therefore, a significant increase in the dewatering rate from the Million Dollar pit to Margaret's pit and Enterprise pit is not expected during the estimated operating period of the Porphyry pit project.

All the mining voids have adequate capacity to hold the proposed dewatering volumes while maintaining a 6m freeboard limit at all times. A summary of water storage volumes and remaining capacity is provided in Table 2 below.

Table 2: Pit storage capacities and volumes at the Porphyry gold Project

Pit Name	Total Storage Capacity (Including 6m freeboard) (ML)	Current Stored Water Volume (ML)	Remaining Storage Capacity (Including 6m freeboard) (ML)
Porphyry Pit	6,616	1,104	5,512
Margaret's Pit	1,187	149	1,038
Enterprise Pit	1,078	125	953

The proposed duration of the Porphyry pit dewatering project will be for 24 months and it is estimated that the maximum production capacity during this period will be 2,000,000 kL per annum. Currently, the operating licence L8569/2011/2 authorises dewatering up to 1,000,000 tones per annum (roughly equivalent to 1,000,000 Kilolitres per annum). Therefore, as a result of this licence amendment the maximum dewatering throughput will be increased up to 3,000,000 tonnes per annum.

2.3.2 Bulk storage of chemicals

The Licence Holder intends to increase the storage capacity of hydrocarbon fuel at the Porphyry Gold project to accommodate the requirement to refuel additional earthmoving equipment and the power station facility as the project is expecting to ramp up production with the plan to recommission the underground mining. The Licence Holder proposes to install 6 x 110kL self-bunded wrap tanks (or alternatively steel tanks with secondary concrete bunding to minimise any possible spillage) to cater for increase fuel storage requirements.

It is proposed that all new refuelling pads will meet the infrastructure requirements imposed in the condition 1.3.13 in the existing operating licence L8569/2011/2. Also, the Licence Holder has committed to installing and operating all storage fuel tanks to meet the requirements of Australian Standard AS1940 "*The storage and handling of flammable and combustible liquids*". With the increase of the storage capacity of hydrocarbon fuel, the Premises will hold a total of 880m^3 (8x 110kL tanks) of hydrocarbon fuel in aggregate (including already exist storage capacity).

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 2020).

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 construction and 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
Construction			
Dust	Construction of dewatering pipeline	Air/windborne pathway causing impacts to native vegetation	• Use of dribble bars • enforcement of speed restrictions
Operation			

Emission	Sources	Potential pathways	Proposed controls
Category 6: Mine dewatering			
Hypersaline Mine dewater	Dewatering operations – transfer of hypersaline mine dewater via pipelines	Direct discharge due to spills/leaks from pipeline failure	• 12 hourly inspections of pipelines during pumping • Pipelines to be placed within V drains with adequate bunds to contain volume of water potentially spilt between routine inspections • Pipeline will be buried where vehicle and stock access are required • sumps to be placed at the lowest points along the pipeline to contain any potential spillage
	Dewatering into Enterprise and Porphyry pits	Seepage through pit walls to groundwater	• Groundwater levels and quality monitoring to be conducted in accordance with the Carosue Dam Groundwater Operating Strategy
		Direst discharge to land due to overtopping of pits / turkey's nest	• 6m freeboard to be always maintained in all pits • Markers to be installed on the pit walls to indicate 6m level • Monthly pit level monitoring by survey personnel • Daily inspection of pits • Discharge water quality to be monitored quarterly • Flow meter to measure daily abstracted and discharged amounts
	Dust suppression	Direct discharge to land	• No control proposed
Category 73: Bulk Storage of Chemicals			
Hydrocarbon	Breach of containment	Direct discharge to land	• All storage fuel tanks will meet the requirements of Australian Standard AS1940 • Tanks will either be self-bunded wrap tanks or alternatively steel tanks with secondary concrete bunding (110% capacity of largest tank volume) to minimise the possibility of spillage • Spills kits to be available on the premises at all times • Any contaminated soil due to spills to be removed and disposed of using bio-remediation techniques

3.1.2 Receptors

In accordance with the *Guideline: Risk assessments* (DWER 2020), the Delegated Officer has excluded employees, visitors and contractors of the Licence Holder 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 2020)).

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

Human receptors	**Distance from prescribed activity**
No nearby human receptors	The Edjudina homestead is located approximately 7 km to the south-east. The nearest town of Menzies is approximately 110 km west of the Premises.
Environmental receptors	**Distance from prescribed activity**
Threatened flora *Thryptomene eremaea*	within 3 km of premises boundary
Surface water bodies – Lake Rebecca	Approximately 13 km from the proposed prescribed activities. Premises mapped within area (dewatering discharge point)
Proclaimed groundwater area Goldfields groundwater area	Premises mapped within area Groundwater around the project area ranges from brackish (TDS 2,000 mg/L) to hypersaline (TDS 300,000 mg/L). Depth to groundwater in the area is approximately 30-32 meters below ground level (mbgl).

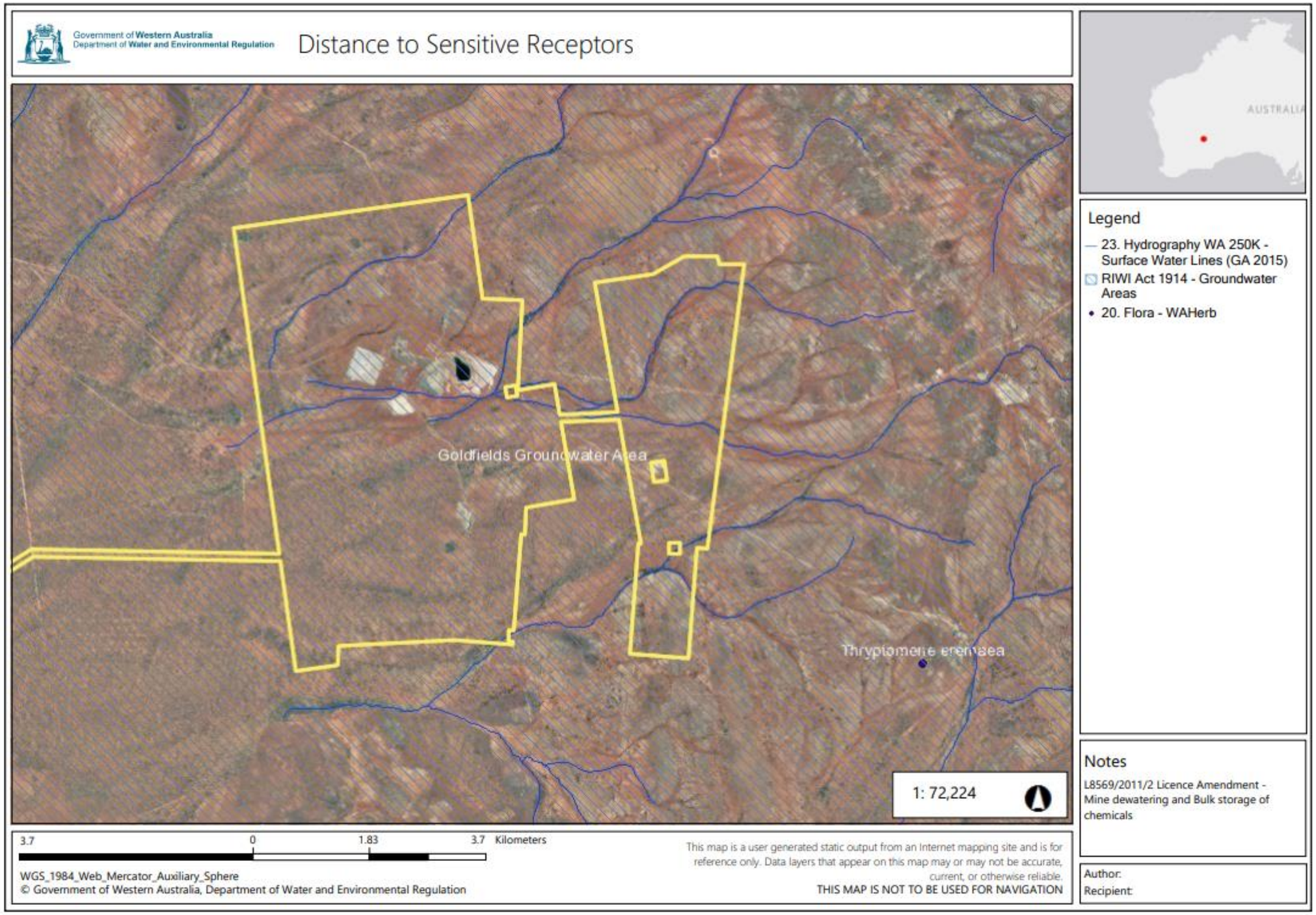

Figure 2: Distance to sensitive receptors

3.2 Risk ratings

Risk ratings have been assessed in accordance with the *Guideline: Risk Assessments* (DWER 2020) 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 L8569/2011/1 that accompanies this Amendment Report authorises emissions associated with the construction and operation of the Premises i.e. Category 6 mine dewatering activities and Category 73 bulk storage of chemicals.

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 construction and operation

Risk Event					Risk rating[1] C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions[2] of licence	Justification for additional regulatory controls
Source/Activities	**Potential emission**	**Potential pathways and impact**	**Receptors**	**Licence Holder's controls**				
Construction								
Construction of dewatering pipelines	Dust	Air/windborne pathway causing impacts to native vegetation	Native vegetation	Refer to Section 3.1.1	C = Slight L = Unlikely **Low Risk**	Y	Existing licence condition 2.4	The Delegated Officer considers that the applicant controls, summarised in section 3.1, are sufficient to mitigate any impacts to the nearby environmental receptors from the potential dust emissions during construction. Existing licence condition 2.4 is required to use all reasonable and practical measures to prevent and/or minimise dust emissions from the premises. Additional regulatory controls are not required.
Operation (including time-limited-operations operations)								
Category 6: Mine Dewatering								
Mine Dewatering operations – transfer of hypersaline mine dewater via pipelines	Hypersaline mine dewater	Direct discharge due to spills/leaks from pipeline failure	Underlying soil and groundwater Adjacent Native vegetation	Refer to Section 3.1.1	C = Minor L = Unlikely **Medium Risk**	Y	**Condition 1.3.14 – infrastructure requirements – dewatering pipelines** Existing licence condition 1.3.1 and 1.3.3	Existing licence condition 1.3.1 is required to equip the dewatering pipelines with telemetry systems and pressure sensors, including automatic cut-out or adequate secondary containment to contain any spill for a period equal to the time between routine inspections. These controls are required to be included in the new dewatering pipelines and therefore conditioned as part of infrastructure requirements during construction. Existing condition 1.3.3 – Visual inspection to ensure integrity of the dewatering pipelines New pipelines will be located along the existing haul roads therefore impacts to vegetation will be minimal. No further regulatory controls required.
Dewatering into Enterprise and Porphyry pits	Hypersaline mine dewater	Seepage through pit walls to groundwater	Underlying soil and groundwater Adjacent Native vegetation	Refer to Section 3.1.1	C = Slight L = Unlikely **Low Risk**	Y	N/A	Depth to groundwater in the area is approximately 30 -32 mbgl and ranges from brackish to hypersaline TDS levels. The separation distance is considered to be adequate to minimise any potential impacts to groundwater. The Delegated Officer has therefore determined

Risk Event					Risk rating[1] C = consequence L = likelihood	Licence Holder's controls sufficient?	Conditions[2] of licence	Justification for additional regulatory controls
Source/Activities	**Potential emission**	**Potential pathways and impact**	**Receptors**	**Licence Holder's controls**				
								that additional regulatory controls are not required.
		Direst discharge to land due to overtopping of pits / turkey's nest	Underlying soil and groundwater Adjacent Native vegetation	Refer to Section 3.1.1	C = Minor L = Unlikely **Medium Risk**	Y	Existing licence condition 1.3.14 **Condition 2.3.2 – freeboard requirement at Margaret's and Enterprise pits**	The Delegated Officer has determined that the applicant's proposed controls are sufficient to mitigate any impacts from overtopping of pits/ turkey's nest. Those controls have conditioned within the operating licence. Existing licence condition 1.3.14 requires the Licence Holder to maintain a 300mm freeboard in each turkey's nest. Condition 2.3.2 of the revised licence requires the Licence Holder to maintain at least 6m freeboard in Margaret's and Enterprise pits at all times.
Dust suppression	Hypersaline mine dewater	Direct discharge to land	Underlying soil and groundwater Adjacent Native vegetation	No control proposed	C = Slight L = Unlikely **Low Risk**	N/A	Existing licence condition 1.3.2	Prescribed activities will be carried out within cleared mining areas, therefore impacts to vegetation will be minimal. Existing licence condition1.3.2. requires the Licence Holder to conduct dust suppression in a manner that minimises damage to surrounding vegetation. Additional regulatory controls are not required.
Category 73: Bulk Storage of Chemicals								
Breach of containment infrastructure	Hydrocarbons	Direct discharge to land	Underlying soil and groundwater	Refer to Section 3.1.1	C = Slight L = Unlikely **Low Risk**	Y	Existing condition 1.3.13 Table 1.3.4: Infrastructure requirements – containment infrastructure Existing condition 1.3.14 Table 1.3.5: Infrastructure requirements - Hydrocarbon/chemical storage area	The Licence Holder's controls are deemed adequate to mitigate any impacts to the nearby environmental receptors from the bulk storage of hydrocarbons. Existing licence condition 1.3.13 requires hydrocarbons to be stored in self bunded wrap tanks, located within a concrete/compacted clay or high-density polyethylene lined area and requires tanks to be fitted with a high-level mechanical float switch. Existing licence condition 1.3.14 specifies minimum capacity requirements of the bunded areas of the hydrocarbon storage infrastructure. These controls will be conditioned as construction requirements to ensure that design and operation of the new storage tanks comply with relevant Australian Standards for bulk storage of hydrocarbons.

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
Department of Mines, Industry Regulation and Safety (DMIRS) advised of proposal 04 November 2021	DMIRS replied on 15 November 2021 advising that a Mining Proposal (Reg ID: 96583) for the Porphyry Site was approved by DMIRS on 11 May 2021. DMIRS to be in contact with Northern Star Resources to discuss the requirement for a Revised Mining Proposal to be submitted for assessment and approval for these proposed activities."	Northern Star Resources are required to obtain the relevant approval(s) under the *Mining Act 1978* to commence any works authorised under this Revised Licence L8569/2011/1.
Licence Holder was provided with draft amendment on 24 December 2021	Comments received on 04 January 2022 Refer to Appendix 1	Refer to Appendix 1

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.

Table 7: Summary of licence amendments

Relevant section or Condition no.	Proposed amendments
Cover page	Premises details has been updated to include dewatering pipeline infrastructure located in tenement L31/59. Premises category description table has been updated to reflect the increased production capacities.
Licence history	Licence amendment information has been added.
Table 1.3.4	Updated the "Infrastructure requirements" of the bulk fuel storage tanks to reflect the maximum number of storage tanks authorised on the premises, and to amend the types of tanks to include both self-bunded and steel tanks with secondary bunding.
Table 1.3.5	Updated to include the design/construction requirements of the dewatering pipeline network from Porphyry pit to Margaret's and Enterprise pits. Construction requirements of Hydrocarbon storage area and landfill has been

Relevant section or Condition no.	Proposed amendments
	removed upon completing the construction and submitting the construction compliance report.
1.3.16	Revised to include current condition format.
1.3.17	Revised to include current condition format.
Table 2.3.1	Updated to remove the Porphyry pit and include new discharge points - Margaret's and Enterprise pits.
Table 2.3.2	Updated to remove the freeboard requirement at Porphyry pit and include the requirement at the new discharge points - Margaret's and Enterprise pits.
Table 3.3.1	Updated to remove the monitoring requirement at Porphyry pit and include the requirement at the new discharge points - Margaret's and Enterprise pits.
Schedule 1 Figure 1	Premises map has been updated to reflect new discharge points.
Schedule 1 Figure 2	Emission points location map has been updated to include new discharge point locations.
Schedule 1 Figure 5	A new map has been added to depict the location of fuel storage facilities.
Schedule 2 Reporting and Notification forms	The redundant N1 form has be removed from the licence

References

1. Email titled “Northern Star (Carosue Dam) Pty Ltd - Porphyry (Edjudina) Dewatering Works Approval Application - Supporting Documents” dated 08/08/2021 authored by Robert Mills, available at DWER records (DWERDT488170).
2. Email titled “L8569/2011/2 - Northern Star (Carosue Dam) Porphyry Project - Category 73 Licence Amendment” dated 28/09/2021 authored by Robert Mills, available at DWER records (DWERDT508745).
3. Email titled “Dewatering pipeline maps- Clarification on Porphyry Dewatering application (L8569/2011/1)” dated 21/12/2021 authored by Robert Mills, available at DWER records (A2075524).
4. DER 2015*, Guidance Statement: Setting Conditions*, Perth, Western Australia.
5. Department of Water and Environmental Regulation (DWER) 2019, *Guideline: Decision Making*, Joondalup, Western Australia.
6. DWER 2016, *Guideline: Environmental siting*, Joondalup, Western Australia.
7. DWER 2017, *Guideline: Risk assessments*, Joondalup, Western Australia.

Appendix 1: Summary of Licence Holder's comments on risk assessment and draft conditions

Condition/description	Summary of Licence Holder's comment	Department's response
Licence History table – Page 4	Typographical error – Margaret's	Noted and updated accordingly.
Table 2.3.1	Licence Holder requested to leave Porphyry pit emission point in the licence in anticipation of future operations whereby Million dollar may go underground, and this may necessitate the need to discharge water to Porphyry pit.	The Delegated Officer considered the Licence Holder's request. Based on the future operational plans and Porphyry pit having been already approved as a dewatering discharge point, the Delegated Officer has approved retaining authorisation to discharge to Porphyry pit.
Table 2.3.2	Licence holder requested to leave Porphyry pit Emission point	
Table 3.3.1	Licence holder requested to leave Porphyry pit Emission point	
Condition 1.3.16	DWER requested evidence related to submission of construction compliance report for mine dewatering turkeys nest dam 1, mine dewatering turkeys nest dam 2, mine dewatering turkeys nest dam 3, hydrocarbon storage area and landfill. Licence Holder confirmed the submission of the construction compliance report for landfill and hydrocarbon storage, which has been submitted as a part of 2020 Annual Environmental Report. Construction of mine dewatering turkeys nest dam 1, mine dewatering turkeys nest dam 2 and mine dewatering turkeys nest dam 3 has not yet been completed.	The Delegated Officer reviewed the relevant information in pages 4-6 and Appendix B of the 2020 Annual Environment Report. Based on the information submitted, construction of the hydrocarbon storage area and landfill are considered compliant. Therefore, conduction requirements for that infrastructure has been removed from Table 1.3.5.
Schedule 1 – Premises map	Map reference error.	Noted and updated the map reference in the licence.
	Updated map provided	Noted and updated the prescribed premises maps accordingly.

Condition/description	Summary of Licence Holder's comment	Department's response
Schedule 2 – Reporting and notification	Licence Holder sought clarification on whether DWER still required N1 form as it was still included in the Licence L8569/2011/2.	The Delegated Officer noted the administrative error. N1 form is now redundant and has been removed from the licence. Any emergency incident / unplanned discharge event related to the premises must be notified to the department pursuant with the Section 72 of the EP Act. Any non-compliances to be reported in the AACR.

Appendix 2: Application validation summary

SECTION 1: APPLICATION SUMMARY (as updated from validation checklist)					
Application type					
Works approval	☐				
Licence	☐	Relevant works approval number:		None	☐
		Has the works approval been complied with?		Yes ☐ No ☐	
		Has time limited operations under the works approval demonstrated acceptable operations?		Yes ☐ No ☐ N/A ☐	
		Environmental Compliance Report / Critical Containment Infrastructure Report submitted?		Yes ☐ No ☐	
		Date Report received:			
Renewal	☐	Current licence number:			
Amendment to works approval	☐	Current works approval number:			
Amendment to licence	☒	Current licence number:	L8569/2011/2		
		Relevant works approval number:		N/A	☒
Registration	☐	Current works approval number:		None	☐
Date application received		8 August 2021			
Applicant and Premises details					
Applicant name/s (full legal name/s)		Northern Star Resources (Carosue Dam) Pty Ltd			
Premises name		Porphyry (Edjudina) Gold Project			
Premises location		M31/3, M31/4, M31/30, M31/380, M31/381, L31/59, L31/63			
Local Government Authority		Shire of Menzies			
Application documents					
HPCM file reference number:		DER2021/000459			
Key application documents (additional to application form):		Porphyry Gold Project Supporting documentation ASIC Company Extract Letter of Authority			
Scope of application/assessment					

Summary of proposed activities or changes to existing operations.	The applicant proposes to continue mining at the premises by further developing the existing pit and underground resources. Initial work includes to dewatering of the current open pit, with longer term dewatering to continue to allow the safe mining of ore. The Porphyry Pit will be dewatered to the Margaret and Enterprise Open pits. Existing pit water in Margaret's Pit will be pumped to the Enterprise pit to create more storage for the water from Porphyry. Once this transfer is complete, water will be pumped from Porphyry to Margaret's. Construction activities include the construction of all relevant dewatering pipelines.

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

Table 1: Prescribed premises categories

Prescribed premises category and description	**Assessed production or design capacity**	**Proposed changes to the production or design capacity (amendments only)**
Category 6: Mine dewatering	1,000,000 tonnes per year	3,000,000 tonnes per year
Category 64: Class II putrescible landfill site	No more than 4,500 tonnes per annual period	N/A
Category 73: Bulk storage of chemicals etc.	220 m^3 in aggregate	880 m^3 in aggregate

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 ☐ No ☒	Referral decision No: Managed under Part V ☐ Assessed under Part IV ☐
Does the applicant hold any existing Part IV Ministerial Statements relevant to the application?	Yes ☐ No ☒	Ministerial statement No: EPA Report No:
Has the proposal been referred and/or assessed under the EPBC Act?	Yes ☐ No ☒	Reference No:
Has the applicant demonstrated occupancy (proof of occupier status)?	Yes ☒ No ☐	Certificate of title ☐ General lease ☐ Expiry: Mining lease / tenement ☒ Expiry: M31/2 Exp. 2025 , M31/4 Exp. 2025, M31/30 Exp. 2028, M31/380 Exp. 2028 , M31/381 Exp. 2028, L31/59 Exp. 2030, L31/63 Exp. 2031 Other evidence ☐ Expiry:

Has the applicant obtained all relevant planning approvals?	Yes ☐ No ☐ N/A ☒	Approval: Expiry date: Not required with mining tenements
Has the applicant applied for, or have an existing EP Act clearing permit in relation to this proposal?	Yes ☒ No ☐	CPS No: 3934-4 and 4033-3
Has the applicant applied for, or have an existing CAWS Act clearing licence in relation to this proposal?	Yes ☐ No ☒	Application reference No: N/A Licence/permit No: N/A No clearing is proposed.
Has the applicant applied for, or have an existing RIWI Act licence or permit in relation to this proposal?	Yes ☒ No ☐	Licence/permit No: 169295(5)
Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the EP Act)?	Yes ☒ No ☐	Name: Goldfields Groundwater Area Type: Proclaimed Groundwater Area Has Regulatory Services (Water) been consulted? Yes ☐ No ☒ N/A ☐ Regional office: Goldfields
Is the Premises situated in a Public Drinking Water Source Area (PDWSA)?	Yes ☐ No ☒	Name: N/A Priority: N/A Are the proposed activities/ landuse compatible with the PDWSA (refer to WQPN 25)? Yes ☐ No ☐ N/A ☒
Is the Premises subject to any other Acts or subsidiary regulations (e.g. *Dangerous Goods Safety Act 2004, Environmental Protection (Controlled Waste) Regulations 2004, State Agreement Act xxxx*)	Yes ☒ No ☐	*Mining Act 1978*
Is the Premises within an Environmental Protection Policy (EPP) Area?	Yes ☐ No ☒	
Is the Premises subject to any EPP requirements?	Yes ☐ No ☒	
Is the Premises a known or suspected contaminated site under the *Contaminated Sites Act 2003*?	Yes ☐ No ☒	Classification: N/A Date of classification: N/A