



## Annual Audit Compliance Report Form

*Environmental Protection Act 1986, Part V Division 3*

Once completed, please submit this form either via email to [info@dwer.wa.gov.au](mailto:info@dwer.wa.gov.au), or to the below postal address:

Department of Water and Environmental Regulation  
Locked Bag 10  
Joondalup DC WA 6919

Section A – Licence details			
Licence number:	L7465/1999/9	Licence file number:	2011/011727-1
Licence holder name:	Northern Star (Carosue Dam) Pty Ltd		
Trading as:	Northern Star Resources Limited		
ACN:	116649122		
Registered business address:	Level 4, 500 Hay Street, Subiaco WA 6008		
Reporting period:	01 / 01 / 2023 to 31 / 12 / 2023		

Section B – Statement of compliance with licence conditions
Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)
<input type="checkbox"/> Yes – please complete: <ul style="list-style-type: none"><li>• section C;</li><li>• section D (if required); and</li><li>• sign the declaration in Section F.</li></ul>
<input checked="" type="checkbox"/> No – please complete: <ul style="list-style-type: none"><li>• section C;</li><li>• section D (if required);</li><li>• section E; and</li><li>• sign the declaration in Section F.</li></ul>

Section C – Statement of actual production	
Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.	
Prescribed premises category	Actual production quantity
Category 5: Processing and beneficiation of metallic or non-metallic ore: 4,500,000 tonnes per annual period	3,750,000 tonnes processed.
Category 6: Mine dewatering: 1,000,000 tonnes per annual period	829,330kL dewatered from the Karari & Whirling Dervish Underground Mines
Category 52: Electric power generation: 28 MW	20MW
Category 54: Sewage facility: 150 m <sup>3</sup> /day	An average of 80 kL per day

<b>Section C – Statement of actual production</b>	
Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.	
<b>Prescribed premises category</b>	<b>Actual production quantity</b>
Category 63: Class I inert Landfill: 3,500 tonnes per annual period	2168 tonnes
Category 64: Class II putrescible landfill: 6,000 tonnes per annual period	409 tonnes
Category 73: bulk storage of chemicals, etc.: 1,400 m3	1,000 m3 in aggregate

<b>Section D – Statement of actual Part 2 waste discharge quantity</b>	
Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.	
<b>Prescribed premises category</b>	<b>Actual Part 2 waste discharge quantity</b>
Category 5: Processing and beneficiation of metallic or non-metallic ore: 4,500,000 tonnes per annual period	3,750,000 tonnes processed.
Category 6: Mine dewatering: 1,000,000 tonnes per annual period	829,330kL dewatered from the Karari & Whirling Dervish Underground Mines
Category 52: Electric power generation: 28 MW	20 MW
Category 54: Sewage facility: 150 m3/day	An average of 80 kL per day
Category 63: Class I inert Landfill: 3,500 tonnes per annual period	2,168 tonnes
Category 64: Class II putrescible landfill: 6,000 tonnes per annual period	409 tonnes
Category 73: bulk storage of chemicals, etc.: 1,400 m3	1,000 m3 in aggregate

<b>Section E – Details of non-compliance with licence condition</b>			
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.			
Condition no:	Condition 3	Date(s) of non-compliance:	8/6/2023
Details of non-compliance:			
The Tailings thickener facility experienced an overloaded condition, due to blockage of intertank screens restricting circuit flows. This resulted in an overflow of tailings waste material breaching the primary containment cells of the facility (See images below). All tailings waste material was contained within secondary earthen containment, with material removed (once dry) and disposed of into the TSF facility.			
What was the actual (or suspected) environmental impact of the non-compliance?			
<b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.			

### Section E – Details of non-compliance with licence condition

The breach of the tailings thickeners primary containment resulted in undiscernible environmental impact. The tailings waste material was contained within secondary earthen bunding, resulting in the entirety of the spill being exposed to previously disturbed, hardstand areas only. All tailings waste material (once dry) was removed with earthmoving machinery and disposed into the TSF facility.

Images and maps of spill extent are shown below.



Above image displays the area of discharge relating to the reported spill.

Image below demonstrates the waste material contained within secondary containment.



Section E – Details of non-compliance with licence condition	
Cause (or suspected cause) of non-compliance:	
The tailings thickener intertank screens were blocked, leading to an overload of circuit capacity within the plant, resulting in an overflow.	
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:	
The secondary earthen containment ensured no impact to environment was experienced. The tailings thickener facility is inspected and scheduled for preventative maintenance as required.	
Was this non-compliance previously reported to DWER?	
<input checked="" type="checkbox"/> Yes, and	
<input type="checkbox"/> Reported to DWER verbally	Date: / /
<input checked="" type="checkbox"/> Reported to DWER in writing	Date: 8 / 6 / 2023

Section E – Details of non-compliance with licence condition			
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.			
Condition no:	Condition 3	Date(s) of non-compliance:	18/10/2023
Details of non-compliance:			
Carbon in Leach (CIL) tank 5 experienced a localized failure, causing a breach of primary containment of slurry material into the surrounding area of the CDO Processing Plant.			
What was the actual (or suspected) environmental impact of the non-compliance?			
<b>NOTE</b> – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.			
The breach of primary containment resulted in undiscernible environmental impact. The slurry material was entirely contained by purpose-built diversion channels and bunding of the processing plant, and no slurry material was discharged to the surrounding natural environment. The slurry material was entirely contained to previously disturbed hardstand areas. All slurry material (once dry) was removed with earthmoving machinery and appropriately disposed/segreated.			
Images and maps of spill extent are shown below.			
Cause (or suspected cause) of non-compliance:			
The spill of waste material occurred after a localized failure in the CIL Tank wall, resulting in a portion of its contents spilling into the concrete bund, and overflowing into the disturbed hardstand area. This tank was scheduled for isolation and refurbishment within a month of the incident occurrence, as per the capital budgeted works program.			



### Section E – Details of non-compliance with licence condition



### CIL Tank 5 Spill

18/10/2023

Date: 18/10/2023 | Author: creewes | Coordinate System: GCS GDA 1994 | Scale: 1:2,095 |

0 0.01 0.02 0.05 0.07 0.09m



Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:

**Section E – Details of non-compliance with licence condition**

The scheduled refurbishment works were advanced for immediate commencement. Contractor has been engaged to complete annual wall thickness testing of CIL Tanks, in addition to capital budgeted refurbishment works. All slurry material was appropriately segregated, cleaned, and disposed of accordingly.

Was this non-compliance previously reported to DWER?

Yes, and

Reported to DWER verbally

Date: / /

Reported to DWER in writing

Date: 18 / 10 / 2023

**Section F – Declaration**

I / We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular<sup>1</sup>.

I / We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.

<b>Signature<sup>2</sup>:</b>		<b>Signature:</b>	
Name: (printed)		Name: (printed)	
Position:	General Manager – Carosue Dam	Position:	Senior Environmental Advisor
Date:	28/03/2024	Date:	28/03/2024
Seal (if signing under seal):			

<sup>1</sup> It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.

<sup>2</sup> AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.