



**RioTinto**

Iron Ore  
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Perth 6000  
Western Australia  
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**Private and confidential**

Manager - Industry Regulation (Resources North)  
Department of Water and Environmental Regulation  
Regulatory Services - Environment  
Prime House, 8 Davidson Terrace  
JOONDALUP WA 6027

29 April 2022

Our reference     RTIO-HSE-0356340  
Your reference    L8688

To whom it may concern

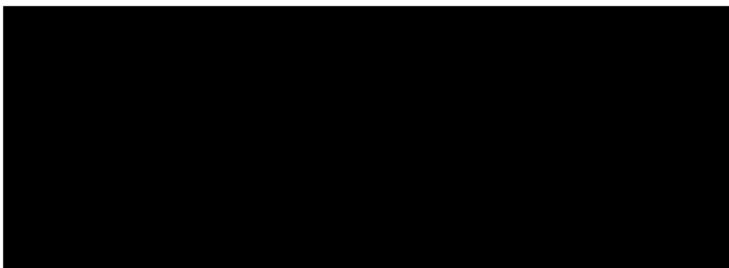
**2021 Annual Audit Compliance Report for L8688 – Hope Downs 4 Mine**

Attached is the 2021 Annual Audit Compliance Report (AACR) for Hope Downs 4 Mine. This report, combined with the Annual Environment Report (AER) constitutes the Compliance Report required by Condition 16 of L8688/2012/1.

This AACR covers the reporting period from 1 January to 31 December 2021.

Please contact [REDACTED], Superintendent Environment, at [REDACTED] if you have any queries.

Yours sincerely



# Annual Audit Compliance Report form

Environmental Protection Act 1986, Part V

Section A – Licence Details			
Licence Number:	L8688/2012/1	Licence File Number:	DER2014/000622
Licence Holder:	Hamersley HMS Pty Ltd		
Trading as:	Rio Tinto Iron Ore		
ACN:	115 004 129		
Registered address:	Level 18, Central Park. 152-158 St. Georges Terrace, PERTH WA 6000		
Reporting period:	1 January 2021 to 31 December 2021		


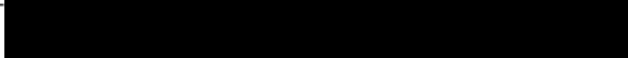
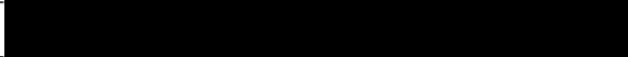
Section B – Statement of compliance with licence conditions	
Did you comply with all of your licence conditions during the reporting period?	
Yes <input type="checkbox"/>	Please complete <b>Sections C, D</b> (if required) and sign the declaration in <b>Section E</b>
No <input checked="" type="checkbox"/>	Please complete <b>Sections C, D</b> (if required), <b>F</b> and sign the declaration in <b>Section E</b>

Section C – Statement of actual production		
Provide the actual production quantity for this reporting period.*		
Category	Premises description	Actual production quantity (2021)
5	Processing or beneficiation of metallic or non-metallic ore	18,632,287 tonnes
12	Screening, etc. of material	0 tonnes
54	Sewage facility	143 m <sup>3</sup> /day
64	Class II putrescible landfill site	859.49 tonnes

\*Supporting information provided in the relevant conditions of the 2021 Annual Environment Report

Section D – Statement of actual Part 2 waste discharge quantity		
Provide the actual Part 2 waste discharge quantity for this reporting period.*		
Category	Premises description	Actual Part 2 Waste Discharge Quantity (2021)
5	Processing or beneficiation of metallic or non-metallic ore (Tailings)	2,689,587 tonnes
6	Mine dewatering	15,332,455 kL

\*Supporting information provided in the relevant conditions of the 2021 Annual Environment Report

Section E – Declaration	
I 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 consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.	
Signature <sup>2</sup> :	
Name: (printed)	
Position:	
Date:	27/04/2022

<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.

## Section F – 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.

<b>Condition number:</b>	1	<b>Date(s) of non-compliance:</b>	5 April and 25 August 2021
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### Details of non-compliance:

#### Specified Emissions

- 1) Water from site raw water dam overflowed from engineered spillway. Water entered minor drainage line which was released at a location other than the Kalgan Creek Dewatering Discharge Point.

#### General Emissions

- 2) Washdown water from sedimentation basin overflowed into a drainage channel and beyond the prescribed premises boundary.

### What was the actual (or suspected) environmental impact of the non-compliance?

- 1) There was no evidence of adverse environmental impact associated with the raw water dam overflow. Water samples taken from the raw water dam showed that parameters were all within ANZECC guidelines for slightly to moderately disturbed ecosystems.
- 2) There was no evidence of adverse environmental impact associated with the sedimentation pond overflow. Water samples taken from the sedimentation basin showed that Total Recoverable Hydrocarbons (TRH) were below the detection limit and all other parameters were all within ANZECC guidelines for slightly to moderately disturbed ecosystems.

### Cause (or suspected cause) of non-compliance:

- 1) During a plant shutdown, water from mine dewatering activities continued to report to the site raw water dam. Additional pumps to discharge water to Kalgan Creek discharge failed to start operating once water levels increased in the dam, causing an overflow.
- 2) During regular plant shutdowns excess water is pumped to the sedimentation basin, which currently cannot hold excess volumes of water during a shut down. When the basin is full water is diverted through engineered pipelines to an earthen spillway.

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

There were no adverse effects associated with the non-compliance requiring mitigation. However, the following actions have been taken to prevent recurrence:

- 1) The system running the dewatering pumps has been calibrated and routine maintenance has been scheduled for the pumps at the raw water dam.
- 2) An additional hopper has been added to the fixed plant, where additional water used during routine shutdowns is now recirculated through the plant as opposed to being directed to the sedimentation basin.

### Was this non-compliance reported to the DWER?

- |   |  |
|---|--|
| <input type="checkbox"/> Yes:<br><input type="checkbox"/> Reported to DWER verbally      Date:<br><input type="checkbox"/> Reported to DWER in writing      Date: | <input checked="" type="checkbox"/> No |
|---|--|

## Section F – 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.

<b>Condition number:</b>	4	<b>Date(s) of non-compliance:</b>	28 February 2021
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### Details of non-compliance:

- 1) Ammonium nitrogen (NH<sub>4</sub>-N) was not analysed for all DSP WFSF groundwater bores in the first half of 2021.
- 2) WB11HD4003 was not sampled during the second half of 2021.
- 3) Water level for RC10EA236 (WB14HD4011) was not recorded for Q1 2021.

### What was the actual (or suspected) environmental impact of the non-compliance?

- 1) There was no evidence of adverse environmental impact associated with the missed analyses. NH<sub>4</sub>-N was sampled in the second half of 2021.
- 2) There was no evidence of adverse environmental impact associated with the H1 WB11HD4003 missed sample. WB11HD4002 (proxy) was sampled in the second half of 2021.
- 3) There was no evidence of adverse environmental impact associated with WB14HD4011 water level not being recorded in Q1. Water levels were recorded in Q2, Q3 and Q4.

### Cause (or suspected cause) of non-compliance:

- 1) Administrative errors resulted in some parameters being missed from the sampling regime as required by Licence L8688.
- 2) Bore WB11HD4003 was decommissioned due to damage to the bore and will no longer be able to be sampled.
- 3) Electrical issues associated with the telemetry system on bore WB14HD4011 resulted in water levels not being recorded.

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

There were no adverse effects associated with the non-compliance requiring mitigation. The following actions have been taken to prevent recurrence:

- 1) Monitoring schedules have been reviewed to ensure all monitoring parameters as listed in condition 4 are sampled accordingly.
- 2) Monitoring bore WB11HD4002 will replace bore WB11HD4003 for biannual sampling.
- 3) The telemetry system on bore WB14HD4011 has since been fixed with water levels being recorded daily.

### Was this non-compliance reported to the DWER?

- |  |       |  |
|--|-------|--|
| <input type="checkbox"/> Yes:                        |       |  |
| <input type="checkbox"/> Reported to DWER verbally   | Date: | <input checked="" type="checkbox"/> No |
| <input type="checkbox"/> Reported to DWER in writing | Date: |  |

## Section F – 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.

<b>Condition number:</b>	11	<b>Date(s) of non-compliance:</b>	Quarter 1 and Quarter 2 2021
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### Details of non-compliance:

pH was not sampled during Q1 and Q2 of 2021 in treated wastewater.

### What was the actual (or suspected) environmental impact of the non-compliance?

There was no evidence of adverse environmental impact associated with pH analysis missed for Q1 and Q2 of 2021. pH results were within the NWQMS guidelines in the following quarters (Q3 and Q4).

### Cause (or suspected cause) of non-compliance:

Administrative errors resulted in pH being missed from the sampling regime.

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

There were no adverse effects associated with the non-compliance requiring mitigation. The following action has been taken to prevent recurrence:

- Training undertaken with samplers.

### Was this non-compliance reported to the DWER?

Yes:

Reported to DWER verbally      Date:

Reported to DWER in writing      Date:

No