

# Annual Dams Safety Standards Report 2021



This report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation). It covers the named declared dam for the calendar year ending 31 December 2021.

The dam owner (the office holder at the end of this report) attests to the accuracy of the report.

A separate report for each declared dam must be lodged with Dams Safety NSW by 31 March 2022.

## Section 1 – Declared dam identification details

|           |                           |
|-----------|---------------------------|
| Dam name  | Raw Water Dam 2           |
| Dam owner | Maules Creek Coal Pty Ltd |

## Section 2 – Dams safety standards

### Consequence category of dam – Regulation, Part 3

The dam consequence category is a rating of the impact that could potentially be caused if the dam failed. It must be assessed:

- within 6 months of the dam being declared
- at least once every 15 years
- after any significant change in the number of people likely to be affected by a dam failure
- or if required by Dams Safety NSW.

[Regulation, subclause 7\(2\)](#)

|                                                                                                                     |                            |
|---------------------------------------------------------------------------------------------------------------------|----------------------------|
| Dam consequence category                                                                                            | Low                        |
| Date of the last consequence category assessment by a competent person                                              | 19 May 2021                |
| Has the number of people likely to be affected by a dam failure changed since the last consequence category review? | No                         |
| How was this checked?                                                                                               | Category Assessment Report |

### For extreme and high consequence dams only

If the consequence category is Extreme, High A, High B, or High C, the consequence category assessment must be reviewed by an independent competent person - [Regulation, subclause 7\(4\)](#)

|                                                                        |             |
|------------------------------------------------------------------------|-------------|
| Date of last independent review of the consequence category assessment | 19 May 2021 |
| Name of independent reviewer (must be a competent person)              | Mark Dugan  |

### Dams safety standard – Dam safety management system - Part 5

The dam safety management system provides a comprehensive and integrated system to manage all aspects of foreseeable risks relating to dam failure. It is designed to be used by the dam owner to ensure, as far as reasonably practicable, the safety of people and property is not put at risk from the dam.

- [Regulation Part 5](#)

#### Documenting the dam safety management system

|                                                                                        |                                                                     |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Is the dam safety management system fully documented?                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If not, what percentage of the dam safety management system documentation is complete? |                                                                     |
| How did you confirm this percentage?<br>(eg draft review, version approved)            |                                                                     |
| Does the dam safety management system apply to more than one dam?                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

#### Documenting the dam safety management system

|                                                                                   |                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Is the dam safety management system fully implemented for this dam?               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If not, what percentage of the dam safety management system is implemented?       |                                                                     |
| How did you confirm this percentage?<br>(eg internal audit, key staff statements) |                                                                     |



## Dam safety management system review

The declared dam owner must ensure the dam safety management system is reviewed each year to ensure it remains effective. [Regulation, clause 17](#)

|                                              |             |
|----------------------------------------------|-------------|
| Date of last safety management system review | 19 May 2021 |
|----------------------------------------------|-------------|

## Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework to produce a written report on all foreseeable risks to the dam:

- at least once every 5 years
- when a major change to the dam is proposed, and
- when required by Dams Safety NSW.

[Regulation, subclause 15 \(1\)](#)

|                                   |             |
|-----------------------------------|-------------|
| Date of last risk report          | 19 May 2021 |
| Individual risk rating of the dam | Low         |
| Societal risk rating of the dam   | Very Low    |
| Date of next planned risk report  | 1 June 2026 |

## Other safety requirements – Part 6

### Incident reporting

The declared dam owner must report incidents that happen at or in relation to the dam to Dams Safety NSW. [Regulation, clause 19](#)

|                                                   |   |
|---------------------------------------------------|---|
| Number of incidents during the 2021 calendar year | 0 |
| Topic/subject of each incident(s)                 |   |

## Safety review

The declared dam owner must ensure a competent person conducts a safety review at least once every 15 years, and as soon as practicable after:

- a deficiency or weakness in the dam is identified
- there is a change in the accepted technology or methods used in one of the relevant specialties or design criteria for dams
- the dam consequence category changes, or
- it is required by Dams Safety NSW.

### [Regulation, clause 20](#)

|                                                             |             |
|-------------------------------------------------------------|-------------|
| Date of last safety review<br>(Regulation, subclause 20(2)) | 19 May 2021 |
| Planned date for next safety review                         | 1 June 2031 |

## For extreme and high consequence dams only

If the consequence category is Extreme, High A, High B, or High C, the safety review must be reviewed by an independent competent person - [Regulation, subclause 20\(6\)](#)

|                                                              |     |
|--------------------------------------------------------------|-----|
| Name of independent reviewer<br>(must be a competent person) | N/A |
|--------------------------------------------------------------|-----|

## Notification of significant changes to the dam

Before making any significant change to the configuration of the declared dam that may affect the safety of the dam, the dam owner must inform Dams Safety NSW of the proposed change in writing.

### [Regulation, clause 21](#)

|                                                                                                     |                                                                     |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Has any significant change to the configuration of the dam been made during the 2021 calendar year? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If yes, describe the change                                                                         |                                                                     |
| Is any significant change to the configuration of the dam planned?                                  |                                                                     |
| If yes, describe the change and when it is planned to happen?                                       |                                                                     |



## Emergency exercises

The declared dam owner must ensure that staff who are involved in the operation of the dam undertake emergency exercises at least once every 3 years. [Regulation, clause 22](#)

|                                                                                       |             |
|---------------------------------------------------------------------------------------|-------------|
| Date of last 'theoretical classroom' emergency exercise (Regulation, subclause 22(1)) | 12 Nov 2020 |
| Planned date of next 'theoretical classroom' emergency exercise                       | 1 June 2023 |

## For extreme or high consequence dams only

The declared dam owner must ensure that staff who are involved in operating the dam undertake practical emergency exercises at least once every 5 years, where possible including relevant agencies identified in the emergency plan. [Regulation, subclauses 22 \(3\) and 22 \(4\)](#)

|                                                   |     |
|---------------------------------------------------|-----|
| Date of last practical emergency exercise         | N/A |
| Planned date of next practical emergency exercise |     |

## Design and construction

This section is for dams in the design/construction/commissioning/decommissioning phase

### Dam safety management system for design and construction

|                                                                                                                                      |     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----|
| Does the dam safety management system cover dam design and construction? <a href="#">Regulation, clause 12(3)</a>                    | N/A |
| Was the risk management framework used to prepare a risk report at the dam design stage?<br><a href="#">Regulation, clause 15(2)</a> |     |

### Certain work must be carried out by a person subject to a quality management system

[Regulation, subclause 23\(1\)](#)

|                                                                                                                                         |     |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----|
| How have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system? | N/A |
|-----------------------------------------------------------------------------------------------------------------------------------------|-----|

## A competent person must check work involving dam design

[Regulation, clause 24](#)

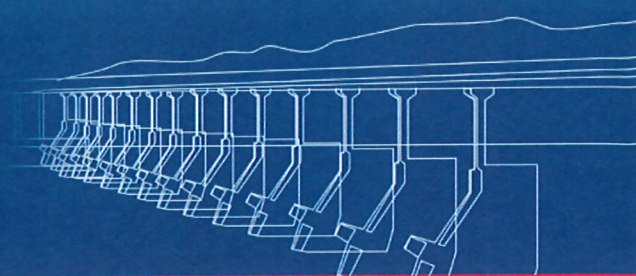
|                                                                                                                                 |                                                          |
|---------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| For extreme or high consequence dams, provide the name of the independent person who checked the design (Regulation, clause 24) | N/A                                                      |
| For dams still in an early design phase, have you planned independent competent person design checks/ reviews?                  | <input type="checkbox"/> Yes <input type="checkbox"/> No |

## Attestation

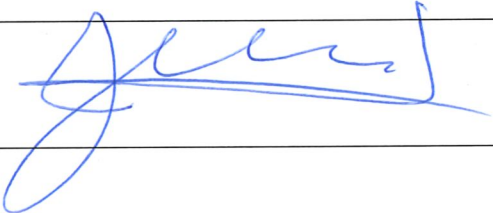
This attestation must be signed by the dam owner office holder(s) as follows:

| Dam owner                         | Attesting office holder(s)                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Local council                     | General Manager                                                                                                                                                                                                                                                                                                                          |
| Company                           | <ul style="list-style-type: none"><li>• 2 directors, or</li><li>• 1 director and 1 company secretary</li><li>• The combined director and company secretary (Where there is only 1 director)</li></ul>                                                                                                                                    |
| Statutory state-owned corporation | Chief Executive Officer or Managing Director responsible for managing the operation of the statutory state-owned corporation in accordance with the general policies and specific directions of the board                                                                                                                                |
| Statutory corporation             | Corporation with 2 or more members: <ul style="list-style-type: none"><li>• President, chairperson or another principal officer of the corporation</li></ul> Sole corporation <ul style="list-style-type: none"><li>• The person who constituted the constitution</li><li>• The person managing the affairs of the corporation</li></ul> |
| Government department             | Secretary                                                                                                                                                                                                                                                                                                                                |
| Individual                        | Individual                                                                                                                                                                                                                                                                                                                               |





**Declared dam owner office holder(s) attesting to the accuracy of this report**

|                                                                                                 |                                                                                                   |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| Name and signature of declared dam owner office holder attesting to the accuracy of this report | Ian Humphris -  |
| Position of the declared dam owner office holder attesting to the accuracy of this report       | Director                                                                                          |
| Name and signature of declared dam owner office holder attesting to the accuracy of this report | Jorge Moraga -  |
| Position of the declared dam owner office holder attesting to the accuracy of this report       | Director                                                                                          |

