

Annual Dams Safety Standards Reports 2022

17/03/2023



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The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Avon Dam - Avon River near Bargo

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

Sam.Banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

1.66x10⁻⁸

Societal risk rating of the dam

1.74x10⁻⁶

Date of next planned risk report

31/12/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

19/11/2020

Planned date of next 'theoretical classroom' emergency exercise

30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

25/11/2021

Planned date of next practical emergency exercise

30/11/2026

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Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
31/12/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38432](#)

Submitted Date: 09/03/23 08:52:54

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

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Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Bendeela Pondage - Off-stream storage near Nowra

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Hydroelectric

Is the dam built on a river, stream or watercourse?

No

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Significant

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2036

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

4.4x10⁻¹⁰

Societal risk rating of the dam

4.35x10⁻⁸

Date of next planned risk report

28/02/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/06/2022

Planned date of next 'theoretical classroom' emergency exercise
30/09/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
12/10/2023

Planned date of next practical emergency exercise
31/10/2027

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Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
27/10/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38439](#)

Submitted Date: 09/03/23 09:42:49

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Blowering Dam - Tumut River near Tumut

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Wagga Wagga is also NSW's largest inland city with around 1% population growth in last decade.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

1.79x10⁻⁸

Societal risk rating of the dam

3.91x10⁻⁵

Date of next planned risk report

31/08/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

27/10/2020

Planned date of next 'theoretical classroom' emergency exercise

31/10/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

31/05/2023

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Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/09/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38453](#)

Submitted Date: 09/03/23 11:08:21

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Brogo Dam - Brogo River near Bega

Type of dam (If a combination, then consider major type)

Rockfill

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High B

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

07/09/2012

Date next consequence category assessment planned
31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Developments around Bega Valley may affect the number of people affected.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

3.42x10⁻⁷

Societal risk rating of the dam

4.56x10⁻⁶

Date of next planned risk report

31/12/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

27/10/2020

Planned date of next 'theoretical classroom' emergency exercise

31/10/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

15/02/2022

Planned date of next practical emergency exercise

28/02/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38596](#)

Submitted Date: 10/03/23 12:58:14

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Broughtons Pass Weir - Cataract Weir near Wilton

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Significant

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

0

Societal risk rating of the dam

5.44x10⁻⁶

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/11/2020

Planned date of next 'theoretical classroom' emergency exercise
30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Planned date of next practical emergency exercise

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation,

Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review

01/12/2022

Date of last Operations and Maintenance Plan review

01/10/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38454](#)

Submitted Date: 09/03/23 11:14:20

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Burrendong Dam - Macquarie River near Wellington

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

There is a large inundation area downstream of the dam and therefore it is possible the PAR number may have changed since the last assessment.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

4.68x10⁻⁸

Societal risk rating of the dam

2.05x10⁻⁵

Date of next planned risk report

30/11/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

16/11/2021

Planned date of next 'theoretical classroom' emergency exercise

30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

17/11/2021

Planned date of next practical emergency exercise

30/11/2026

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
01/01/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

(Page 9 /9)

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38458](#)

Submitted Date: 09/03/23 11:22:14

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Burrinjuck Dam - Murrumbidgee River near Yass

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned
31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Wagga Wagga is also NSW's largest inland city with around 1% population growth in last decade.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

4.28x10⁻⁷

Societal risk rating of the dam

7.48x10⁻⁶

Date of next planned risk report

31/05/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

(Page 6 /9)

Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

27/10/2020

Planned date of next 'theoretical classroom' emergency exercise

31/10/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

31/05/2023

(Page 8 /9)

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
28/02/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38463](#)

Submitted Date: 09/03/23 11:49:34

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
09/03/2023

Section 1 - Declared dam identification details

Dam name and location

Carcoar Dam - Belubula River near Carcoar

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/12/2012

Date next consequence category assessment planned
31/12/2027

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

3.39x10⁻⁸

Societal risk rating of the dam

2.53x10⁻⁶

Date of next planned risk report

31/05/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

21/07/2020

Planned date of next 'theoretical classroom' emergency exercise

30/07/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

31/05/2023

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
31/12/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38552](#)

Submitted Date: 10/03/23 07:41:40

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

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Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Cascade No 2 - Cascade Creek near Katoomba

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High C

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

6.49x10⁻⁷

Societal risk rating of the dam

2.56x10⁻⁵

Date of next planned risk report

30/11/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/06/2020

Planned date of next 'theoretical classroom' emergency exercise

30/06/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/06/2023

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
30/09/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38551](#)

Submitted Date: 10/03/23 07:33:52

Completion Time: N/A

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The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Cascade No 1 - Cascade Creek near Katoomba

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High C

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

5.58x10-9

Societal risk rating of the dam

4.95x10-6

Date of next planned risk report

28/02/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/06/2020

Planned date of next 'theoretical classroom' emergency exercise

30/06/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/06/2023

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
01/10/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38549](#)

Submitted Date: 10/03/23 07:23:43

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Cascade No 3 - Cascade Creek near Katoomba

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High B

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

4.31x10⁻⁷

Societal risk rating of the dam

6.41x10⁻⁶

Date of next planned risk report

31/05/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/06/2020

Planned date of next 'theoretical classroom' emergency exercise

30/06/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/06/2023

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
11/12/2022

Date of last Operations and Maintenance Plan review
01/11/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [39082](#)

Submitted Date: 15/03/23 08:23:49

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
15/03/2023

Section 1 - Declared dam identification details

Dam name and location

Cataract Dam - Cataract River near Bulli

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Densely populated urban area downstream of dam, it is likely the population at risk in the inundation zone may have changed since the last review.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

Yes

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

2.49x10⁻⁴

Societal risk rating of the dam

1.5x10⁻²

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
03/02/2022

Planned date of next 'theoretical classroom' emergency exercise
28/02/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
18/08/2022

Planned date of next practical emergency exercise
30/08/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

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For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/10/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
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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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38599](#)

Submitted Date: 10/03/23 13:12:03

Completion Time: N/A

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Page 1 of 9

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The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Chaffey Dam - Peel River near Tamworth

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

7.91x10⁻⁸

Societal risk rating of the dam

1.08x10⁻⁵

Date of next planned risk report

31/05/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

01/06/2022

Planned date of next 'theoretical classroom' emergency exercise

30/05/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

11/11/2021

Planned date of next practical emergency exercise

30/11/2026

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
31/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38554](#)

Submitted Date: 10/03/23 07:55:29

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Copeton Dam - Gwydir River near Inverell

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

There is a large inundation area downstream of the dam and therefore it is possible the PAR number may have changed since the last assessment.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

3.54x10⁻⁷

Societal risk rating of the dam

1.12x10⁻⁴

Date of next planned risk report

28/02/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

13/07/2021

Planned date of next 'theoretical classroom' emergency exercise

31/07/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

17/05/2022

Planned date of next practical emergency exercise

30/03/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
03/11/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [39087](#)

Submitted Date: 15/03/23 09:03:33

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
15/03/2023

Section 1 - Declared dam identification details

Dam name and location

Cordeaux Dam - Cordeaux River near Wilton

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Densely populated urban area downstream of dam; it is possible the population at risk within the inundation zone have changed since the last review.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

16/12/2022

Individual risk rating of the dam

6.9x10⁻⁵

Societal risk rating of the dam

1.7x10⁻⁴

Date of next planned risk report

30/11/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Lorreta Agnew (AECOM)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Gavan Hunter, David Bowles (independent contractors) and Marius Jonker (Aurecon)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

16/12/2022

Planned date for next safety review

31/12/2037

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Gavan Hunter, David Bowles (independent contractors) and Marius Jonker (Aurecon)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

03/02/2022

Planned date of next 'theoretical classroom' emergency exercise

28/02/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

18/08/2022

Planned date of next practical emergency exercise

30/08/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/05/2022

Date of last Operations and Maintenance Plan review
30/11/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38555](#)

Submitted Date: 10/03/23 08:03:34

Completion Time: N/A

(Page 1 /9)

Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

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How to submit your Annual Dams Safety Standards Report

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Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Fitzroy Falls Dam - Yarrunga Creek near Moss Vale

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

Sam.Banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

2.7x10⁻⁵

Societal risk rating of the dam

2.77x10⁻⁴

Date of next planned risk report

30/04/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/06/2022

Planned date of next 'theoretical classroom' emergency exercise
30/09/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
12/10/2022

Planned date of next practical emergency exercise
31/10/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
01/11/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38556](#)

Submitted Date: 10/03/23 08:11:41

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Glenbawn Dam - Hunter River near Scone

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. The Hunter valley has undergone development in the last 10 years.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

1.93x10⁻⁷

Societal risk rating of the dam

3.93x10⁻⁵

Date of next planned risk report

30/11/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

06/05/2020

Planned date of next 'theoretical classroom' emergency exercise

31/05/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

08/06/2021

Planned date of next practical emergency exercise

30/06/2026

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38557](#)

Submitted Date: 10/03/23 08:20:34

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Glennies Creek Dam - Glennies Creek near Singleton

Type of dam (If a combination, then consider major type)

Rockfill

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Developments around Singleton and Maitland may affect the number of people affected.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

2.62x10⁻⁷

Societal risk rating of the dam

8.63x10⁻⁵

Date of next planned risk report

30/04/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

12/05/2020

Planned date of next 'theoretical classroom' emergency exercise

31/05/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

29/03/2022

Planned date of next practical emergency exercise

31/03/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
03/03/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38558](#)

Submitted Date: 10/03/23 08:36:15

Completion Time: N/A

(Page 1 /9)

Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

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Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Glenquarry Cut - Off-stream storage near Moss Vale

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Significant

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

3.57×10^{-7}

Societal risk rating of the dam

4.46×10^{-6}

Date of next planned risk report

31/12/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)
1/06/2020

Planned date for next safety review
31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/07/2022

Planned date of next 'theoretical classroom' emergency exercise
31/08/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
20/07/2022

Planned date of next practical emergency exercise
31/07/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
25/10/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38559](#)

Submitted Date: 10/03/23 08:44:58

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Greaves Creek - Greaves Creek near Blackheath

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

National Park downstream is protected from development. No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

(Page 3 /9)

Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

6.29x10⁻⁷

Societal risk rating of the dam

2.9x10⁻⁵

Date of next planned risk report

31/03/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/06/2020

Planned date of next 'theoretical classroom' emergency exercise

30/06/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

06/04/2022

Planned date of next practical emergency exercise

30/04/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
01/12/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [39354](#)

Submitted Date: 17/03/23 15:23:17

Completion Time: 1 min. 53 sec.

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

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Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
17/03/2023

Section 1 - Declared dam identification details

Dam name and location

Hume Dam - Murray River near Albury-Wodonga

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner

ACN number

Murray-Darling Basin Authority (maintained and managed by WaterNSW)

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

Website address (if any)

0419935607 martin.weir@waternsw.com.au <https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Peter Hill

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/01/2015

Date next consequence category assessment planned

31/12/2023

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Study and report by consultant

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

30/05/2022

Individual risk rating of the dam

5.19×10^{-6}

Societal risk rating of the dam

8.3×10^{-4}

Date of next planned risk report

30/09/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Boe Donaldson (AECOM)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

David Bowles/Robin Fell/Brian Cooper (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

30/05/2022

Planned date for next safety review

30/05/2037

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

David Bowles/Robin Fell/Brian Cooper (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
28/04/2021

Planned date of next 'theoretical classroom' emergency exercise
30/04/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
05/05/2022

Planned date of next practical emergency exercise
30/05/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
15/03/2023

Date of last Operations and Maintenance Plan review
01/08/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - WaterNSW Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38563](#)

Submitted Date: 10/03/23 09:11:41

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

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Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Kangaroo Pipeline Control Structure - Off-stream storage at Morton National Park near Fitzroy Falls

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Hydroelectric

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High C

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/ Mark Foster/ Robin Fell

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

1.88x10⁻⁸

Societal risk rating of the dam

3.77x10⁻⁷

Date of next planned risk report

30/06/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/07/2022

Planned date of next 'theoretical classroom' emergency exercise
30/09/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
15/10/2022

Planned date of next practical emergency exercise
31/10/2027

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
20/12/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38600](#)

Submitted Date: 10/03/23 13:26:25

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Keepit Dam - Namoi River near Gunnedah

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Developments around Namoi River downstream Keepit Dam may affect the number of people affected.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

2.28x10⁻⁶

Societal risk rating of the dam

8.34x10⁻⁵

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

Yes

How many incidents

1

Topic/subject of incident(s)

- f) an incident relating to dam safety that is reasonably likely to cause concern to members of the public

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

01/06/2022

Planned date of next 'theoretical classroom' emergency exercise

30/06/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

01/06/2022

Planned date of next practical emergency exercise

30/06/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review

01/11/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this

report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38569](#)

Submitted Date: 10/03/23 09:33:21

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Lake Medlow - Wall's Creek near Medlow Bath

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/ Mark Foster/ Robin Fell

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

National park is protected from development. No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

3.68x10⁻⁶

Societal risk rating of the dam

6.21x10⁻⁴

Date of next planned risk report

30/04/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/06/2020

Planned date of next 'theoretical classroom' emergency exercise

31/05/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

06/04/2022

Planned date of next practical emergency exercise

30/04/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
28/02/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38573](#)

Submitted Date: 10/03/23 09:39:46

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Lostock Dam - Paterson River near Gresford

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Developments around Singleton may affect the number of people affected.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

1.34x10⁻⁶

Societal risk rating of the dam

6.9x10⁻⁵

Date of next planned risk report

31/05/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

13/05/2020

Planned date of next 'theoretical classroom' emergency exercise

31/05/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/04/2023

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/01/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38622](#)

Submitted Date: 10/03/23 14:39:19

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Menindee Storages - Darling River and adjacent lakes near Menindee

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

David Bowles

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2023

Date next consequence category assessment planned

30/03/2038

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?

Other

Other

Consequence review only just completed

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

Don't know

Do you know the date of your last risk report?

No

Date of next planned risk report

31/12/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

Review not done yet

Planned date for next safety review

31/12/2027

Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

07/12/2022

Planned date of next 'theoretical classroom' emergency exercise

31/12/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

07/12/2022

Planned date of next practical emergency exercise

31/12/2027

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
20/12/2022

Date of last Operations and Maintenance Plan review
26/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none"> • 2 directors, or • 1 director and 1 company secretary • The combined director and company secretary (Where there is only 1 director)
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"> • President, chairperson or another principal officer of the corporation • Sole corporation • The person who constituted the constitution • The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38574](#)

Submitted Date: 10/03/23 09:47:56

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Nepean Dam - Nepean River near Bargo

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/ Robin Fell/ Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Densely populated urban area downstream of dam; it is possible the population at risk within the inundation zone may have changed since the last review. A check was done for new development within the dam breach inundation areas by WaterNSW staff during a drive/windscreen assessment and through Google Earth comparisons with current dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

3.46x10⁻⁹

Societal risk rating of the dam

1.72x10⁻⁷

Date of next planned risk report

31/10/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or

- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

(Page 7 /9)

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

19/11/2020

Planned date of next 'theoretical classroom' emergency exercise

30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/04/2023

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
31/10/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38601](#)

Submitted Date: 10/03/23 13:36:34

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Oberon Dam - Fish River near Oberon

Type of dam (If a combination, then consider major type)

Concrete buttress

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

1.98x10⁻⁶

Societal risk rating of the dam

8.74x10⁻⁶

Date of next planned risk report

31/12/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

27/04/2021

Planned date of next 'theoretical classroom' emergency exercise

30/04/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/04/2023

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/11/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38605](#)

Submitted Date: 10/03/23 13:50:41

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Pindari Dam - Severn River near Ashford

Type of dam (If a combination, then consider major type)

Rockfill

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned
31/08/2027

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

3.31x10⁻⁷

Societal risk rating of the dam

2.46x10⁻⁶

Date of next planned risk report

31/12/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

14/07/2021

Planned date of next 'theoretical classroom' emergency exercise

30/07/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/03/2023

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/10/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38579](#)

Submitted Date: 10/03/23 10:52:16

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Prospect Dam - Prospect Creek, Prospect

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/04/2019

Date next consequence category assessment planned

31/03/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Large inundation area and densely populated urban area downstream of dam, it is possible the persons in the inundation zone may have changed since the (recent) last review.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

2.12x10⁻⁷

Societal risk rating of the dam

5.68x10⁻⁴

Date of next planned risk report

30/11/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
15/12/2021

Planned date of next 'theoretical classroom' emergency exercise
31/12/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
25/02/2021

Planned date of next practical emergency exercise
28/02/2026

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
21/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38578](#)

Submitted Date: 10/03/23 10:46:35

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Rydal Dam - Off-stream storage near Rydal

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

No

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High B

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

2.23x10⁻⁵

Societal risk rating of the dam

8.37x10⁻⁵

Date of next planned risk report

28/02/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

27/04/2021

Planned date of next 'theoretical classroom' emergency exercise

30/04/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

30/08/2022

Planned date of next practical emergency exercise

30/08/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
09/03/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38611](#)

Submitted Date: 10/03/23 13:58:11

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Split Rock Dam - Manilla River near Manilla

Type of dam (If a combination, then consider major type)

Rockfill

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned
31/08/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas. Developments around Namoi River downstream Split Rock Dam may affect the number of people affected.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

6.35x10⁻⁷

Societal risk rating of the dam

1.42x10⁻⁵

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

01/06/2022

Planned date of next 'theoretical classroom' emergency exercise

30/05/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

08/02/2022

Planned date of next practical emergency exercise

28/02/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
09/03/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?

Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38614](#)

Submitted Date: 10/03/23 14:06:51

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Tallowa Dam - Shoalhaven River near Nowra

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High A

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2034

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

9.27x10⁻⁷

Societal risk rating of the dam

7.56x10⁻⁶

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

19/07/2022

Planned date of next 'theoretical classroom' emergency exercise

30/07/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

12/10/2022

Planned date of next practical emergency exercise

31/10/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
25/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38581](#)

Submitted Date: 10/03/23 11:17:53

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Toonumbar Dam - Iron Pot Creek near Kyogle

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High B

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2012

Date next consequence category assessment planned

31/08/2027

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?

Other

Other

Reviewing areas on Google maps and identifying potential new developments within the dam breach inundation areas.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

2.46x10⁻⁷

Societal risk rating of the dam

1.61x10⁻⁶

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

13/07/2021

Planned date of next 'theoretical classroom' emergency exercise

30/07/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise

30/06/2023

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Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
25/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38582](#)

Submitted Date: 10/03/23 11:24:49

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Upper Cordeaux No 2 - Cordeaux River near Wollongong

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam Other

Other No longer used for water supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

No possible development can occur between Upper Cordeaux Dam and Cordeaux Dam. Upper Cordeaux Dam is located just upstream of Cordeaux Dam and discharges directly into the Cordeaux Dam storage.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/05/2020

Individual risk rating of the dam

0

Societal risk rating of the dam

6.86x10⁻⁵

Date of next planned risk report

30/06/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/05/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
19/11/2020

Planned date of next 'theoretical classroom' emergency exercise
30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Planned date of next practical emergency exercise

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation,

Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
28/09/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [38583](#)

Submitted Date: 10/03/23 11:34:38

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Warragamba Dam - Warragamba River near Warragamba

Type of dam (If a combination, then consider major type)

Concrete gravity

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

David Bowles

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/07/2021

Date next consequence category assessment planned

30/06/2026

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Very large inundation area and densely populated urban area downstream of dam, it is possible the persons in the inundation zone may have changed since the (very recent) last review.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

Yes

Do you know the date of your last risk report?

Yes

Date of last risk report

01/09/2021

Individual risk rating of the dam

4.9x10⁻⁶

Societal risk rating of the dam

8.17x10⁻³

Date of next planned risk report

31/03/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Damian Nott (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster/David Bowles (all independent contractors)

(Page 5 /9)

Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/09/2021

Planned date for next safety review

30/09/2036

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster/David Bowles (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
11/04/2021

Planned date of next 'theoretical classroom' emergency exercise
30/04/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise
01/09/2022

Planned date of next practical emergency exercise
30/09/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
31/05/2022

Date of last Operations and Maintenance Plan review
08/11/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38619](#)

Submitted Date: 10/03/23 14:18:18

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Windamere Dam - Cudgegong River near Mudgee

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Len McDonald

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/11/2012

Date next consequence category assessment planned

30/11/2027

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Reviewing areas on Google maps, there appears to be some new housing developments in and around Mudgee, that may be within the flood inundation zone.

(Page 3 /9)

Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/01/2014

Individual risk rating of the dam

8.31x10-10

Societal risk rating of the dam

2.37x10-7

Date of next planned risk report

31/05/2023

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

David Evans (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/01/2014

Planned date for next safety review

31/12/2027

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Paul Heinrichs/Phil Carter/Len McDonald (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

10/11/2020

Planned date of next 'theoretical classroom' emergency exercise

30/11/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

15/03/2022

Planned date of next practical emergency exercise

30/03/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
25/07/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38584](#)

Submitted Date: 10/03/23 11:41:39

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Wingecarribee Dam - Wingecarribee River near Moss Vale

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

High B

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/08/2019

Date next consequence category assessment planned

31/08/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

There is a large inundation area downstream of the dam and therefore it is possible the PAR number may have changed since the last assessment.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/03/2021

Individual risk rating of the dam

2.1x10⁻⁷

Societal risk rating of the dam

5.3x10⁻⁵

Date of next planned risk report

31/12/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Muhammad Hameed (WaterNSW)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Mark Foster (independent contractor)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

19/07/2022

Planned date of next 'theoretical classroom' emergency exercise

30/07/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

20/07/2022

Planned date of next practical emergency exercise

30/07/2027

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
20/12/2022

Date of last Operations and Maintenance Plan review
13/07/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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	<p>Corporation with 2 or more members:</p> <ul style="list-style-type: none">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38586](#)

Submitted Date: 10/03/23 11:54:22

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Woodford Dam - Woodford Creek near Woodford

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam Other

Other No longer used for water supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Significant

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

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?

Other

Other

National park downstream is protected from development. No visible change was identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

01/06/2020

Individual risk rating of the dam

0

Societal risk rating of the dam

5.06x10⁻⁷

Date of next planned risk report

30/04/2026

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Peter Ballantine (GHD Pty Ltd)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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Page 5 of 9

Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

01/06/2020

Planned date for next safety review

31/12/2034

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

Brian Cooper/Robin Fell/Mark Foster (all independent contractors)

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

Page 7 of 9

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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
04/06/2020

Planned date of next 'theoretical classroom' emergency exercise
30/05/2023

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 \(4\)](#)

Have you done a practical emergency exercise?

Planned date of next practical emergency exercise

Page 8 of 9

Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation,

Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/12/2022

Date of last Operations and Maintenance Plan review
22/09/2021

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Page 9 of 9

Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature: 

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

.....

[Annual Dams Safety Standards Report](#)

Response ID: [39090](#)

Submitted Date: 15/03/23 09:12:09

Completion Time: N/A

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Page 1 of 9

The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
15/03/2023

Section 1 - Declared dam identification details

Dam name and location

Woronora Dam - Woronora River near Waterfall

Type of dam (If a combination, then consider major type)

Concrete arch

Main purpose of dam

Water Supply

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Page 2 of 9

Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper/Robin Fell/Mark Foster

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/03/2019

Date next consequence category assessment planned

31/03/2034

Has the number of people likely to be affected by a dam failure changed since the last consequence category review?

Yes

How was this checked?

Other

Other

Densely populated urban area downstream of dam, it is possible the persons in the inundation zone have changed since the last review.

(Page 3 /9)

Page 3 of 9

Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

(Page 4 /9)

Page 4 of 9

Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

16/12/2022

Individual risk rating of the dam

1.1x10⁻⁷

Societal risk rating of the dam

6.5x10⁻⁵

Date of next planned risk report

31/12/2024

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Lorreta Agnew (AECOM)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Gavan Hunter, David Bowles (independent contractors) and Marius Jonker (Aurecon)

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Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

16/12/2022

Planned date for next safety review

31/12/2037

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For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Gavan Hunter, David Bowles (independent contractors) and Marius Jonker (Aurecon)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)

04/03/2021

Planned date of next 'theoretical classroom' emergency exercise

30/03/2024

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 \(4\)](#)

Have you done a practical emergency exercise?

Yes

Date of last practical emergency exercise

18/08/2022

Planned date of next practical emergency exercise

30/08/2027

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Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
01/02/2023

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

Dam owner	Attesting office holder(s)
Local council	General Manager
Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

[Annual Dams Safety Standards Report](#)

Response ID: [38595](#)

Submitted Date: 10/03/23 12:50:09

Completion Time: N/A

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The Annual Dams Safety Standards Report demonstrates the declared dam owner's compliance with the dam safety standards set out in the Dams Safety Regulation 2019 (the Regulation).

Every year, declared dam owners must lodge a separate report for each of their declared dams with Dams Safety NSW by 31 March.

The report covers the period 1 January to 31 December of the previous calendar year.

How to submit your Annual Dams Safety Standards Report

Use the online form below to enter information into your Annual Dams Safety Standards Report. Note: you can save your progress and resume at a later time.

Once completed and submitted, you will receive an email with an unsigned pdf copy of your Annual Dams Safety Standards Report. The PDF report then needs to be signed by the dam owner's accountable office holder(s). A digital signature can be used.

Once the report is signed by the correct office holder(s), please email to info@damsafety.nsw.gov.au by **31 March**.

Date of report
10/03/2023

Section 1 - Declared dam identification details

Dam name and location

Wyangala Dam - Lachlan River near Cowra

Type of dam (If a combination, then consider major type)

Embankment

Main purpose of dam

Irrigation

Is the dam built on a river, stream or watercourse?

Yes

Name of dam owner ACN number

WaterNSW 21147934787

Name of contact person Regulation, subclause 24A (3)

Martin Weir

Phone number Email address

0419935607 martin.weir@waternsw.com.au

Website address (if any)

<https://www.waternsw.com.au/>

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Section 2 - Dams safety standards

Consequence category of dam - Regulation, Part 3

The dam consequence category is a rating of potential impacts resulting from a dam failure. 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

Extreme

For extreme and high consequence dams only If the consequence category is extreme or high, the consequence category assessment must be reviewed by a competent person who has not been involved in the assessment process. Regulation, subclause 7(4) Has an independent review been done?

Yes

Name of independent reviewer (must be a competent person)

Brian Cooper, Rory Nathan, Rob Ayre

Do you know the date of last consequence category assessment by a competent person? Regulation, subclause 3 (1)

Yes

Date of last consequence category assessment

01/09/2020

Date next consequence category assessment planned

31/08/2035

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?

Other

Other

No visible increase in dwelling numbers were identified by WaterNSW staff during a drive/windscreen assessment or from Google Earth comparisons with dambreak inundations maps.

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Dam safety management system - Regulation, Part 5

The dam safety management system is a structured approach to manage all 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, property and the environment is not put at risk from the dam. [Regulation Part 5, clause 12](#)

Name of individual responsible for ensuring compliance with dam safety management system

Sam Banzi

Email

sam.banzi@waternsw.com.au

Documenting the dam safety management system

Is the dam safety management system fully documented?

Yes

Does the dam safety management system apply to more than one dam?

Yes

Implementing the dam safety management system

Is the dam safety management system fully implemented at this dam?

Yes

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Dam safety management system review

Since implementing your dam safety management system, have you reviewed it?

Yes

Date of last review

01/11/2022

Assessment of societal and individual risk rating

The owner of a declared dam (other than a proposed dam) must use the risk management framework, [Regulation Part 5, clause 14](#) 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, clause 15](#)

Is your dam above the safety threshold?

No

Do you know the date of your last risk report?

Yes

Date of last risk report

31/07/2021

Individual risk rating of the dam

2.5x10⁻⁷

Societal risk rating of the dam

7.34x10⁻⁴

Date of next planned risk report

31/05/2025

Name of competent person and their organisation who signed off the risk report (if risk report commenced after 1 July 2022)

Steve Fox (SGJV, Stantec and GHD)

Name of independent competent person and their organisation who reviewed the report (if risk report commenced after 1 July 2022 - for an extreme, high A or high B consequence dam)

Brian Cooper, Rory Nathan, Rob Ayre (independent contractors)

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Other safety requirements - Regulation, 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](#)

Have you had any reportable incidents during the 2022 calendar year

No

Safety review

The declared dam owner must ensure that a safety review to assess the overall safety of the dam is undertaken by:

- for an extreme or high consequence dam, other than a high C consequence dam—a team of at least 2 competent persons, or
- otherwise—a competent person.

The declared dam owner must ensure a safety review is carried out 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 Regulation, subclause 20(2)

31/07/2021

Planned date for next safety review

31/07/2036

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Page 6 of 9

For extreme and high consequence dams only

If the dam's consequence category is extreme, high A or high B, the safety review must be reviewed by a panel of at least 2 independent competent persons. [Regulation, subclause 20\(6\)](#)

If Safety Review commenced after 1 July 2022 - names of independent competent reviewers and their organisation

Brian Cooper, Rory Nathan, Rob Ayre (independent contractors)

If the dam's consequence category is high C, the safety review must be reviewed by an independent competent person. [Regulation, subclause 20\(6A\)](#)

Name of independent competent reviewer and their organisation

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 2022 calendar year?

No

Is any significant change to the configuration of the dam planned?

No

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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](#)

Have you done a 'theoretical classroom' emergency exercise?

Yes

Date of last 'theoretical classroom' emergency exercise Regulation, subclause 22(1)
11/05/2022

Planned date of next 'theoretical classroom' emergency exercise
30/05/2025

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 \(4\)](#)

Have you done a practical emergency exercise?

No

Planned date of next practical emergency exercise
31/05/2023

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Design and construction

Do not complete this section unless you are in the design, construction, commissioning, or decommissioning phase

Dam safety management system for design and construction

Does the dam safety management system cover dam design and construction? Regulation, Clause 12(3)

Was the risk management framework used or is it currently being used to prepare a risk report at the dam design stage? Regulation, clause 15(2)

Certain work must be carried out by a person subject to a quality management system [Regulation, subclause 23\(1\)](#)

Have you ensured that design and construction are carried out by a person subject to an AS ISO 9001:2016 quality management system?

Independent competent persons must review work involving dam design [Regulation, clause 24](#)

For Extreme and High consequence category dams, provide the name of the independent person(s) and their organisation who reviewed or are reviewing the design Regulation, clause 24

For dams still in an early design phase, have you planned an independent competent person design review?

Section 3 - Additional information for Dams Safety NSW

Date of last Emergency Plan review
01/08/2022

Date of last Operations and Maintenance Plan review
31/10/2022

Did you publish the 2021 Annual Dams Safety Standards Report on your website?
Yes

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Section 4 - Attestation

The Attestation of the information provided in the form must be completed by the dam owner office holder(s):

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Company	<ul style="list-style-type: none">• 2 directors, or• 1 director and 1 company secretary• The combined director and company secretary (Where there is only 1 director)
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">• President, chairperson or another principal officer of the corporation• Sole corporation• The person who constituted the constitution• The person managing the affairs of the corporation
Government department	Secretary
Individual	Individual

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

Name and position of declared dam owner office holder attesting to the accuracy of this report:

Martin Weir - Dam Safety Manager

Signature:



Name and position of declared dam owner office holder attesting to the accuracy of this report:

Signature:

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