

Resource Operations Licence

Water Act 2000



Name of licence

Stanley River Water Supply Scheme Resource Operations Licence

Holder

Queensland Bulk Water Supply Authority

Water plan

The licence relates to the Water Plan (Moreton) 2007.

Water infrastructure

The water infrastructure to which the licence relates is detailed in Attachment 1.

Authority to interfere with the flow of water

The licence holder is authorised to interfere with the flow of water to the extent necessary to operate the water infrastructure to which the licence relates.

Authority to use watercourses to distribute water

The licence holder is authorised to use the watercourses listed in Table 1 for the distribution of supplemented water, including sections of tributaries where supplemented water is accessible.

Table 1 – Use of watercourses for distribution

Watercourse	Description
Stanley River	From its confluence with the Brisbane River upstream to, and including the ponded area of Somerset Dam, including sections of tributaries of the Stanley River, which contain water ponded behind the infrastructure.

Conditions

1. Requirement for operations manual

- 1.1. The licence holder must operate in accordance with an approved operations manual, except in the circumstances set out in condition 5.1.
- 1.2. The approved operations manual must include—
 - 1.2.1. operating rules for water infrastructure;
 - 1.2.2. water sharing rules; and
 - 1.2.3. seasonal water assignment rules.

2. Environmental management rules

- 2.1. The licence holder must comply with the requirements as detailed in Attachment 2.

3. Metering

- 3.1. The licence holder must meter the taking of water under all water allocations and seasonal water assignments managed under this licence.

4. Monitoring and reporting requirements

- 4.1. The licence holder must carry out and report on the monitoring requirements as set out in Attachment 3.
- 4.2. The licence holder must provide any monitoring data required under condition 4.1 to the chief executive within a stated time upon request.
- 4.3. The licence holder must ensure that the monitoring, including the measurement, collection, analysis and storage of data, is consistent with the Water Monitoring Data Collection Standards¹.

¹ The Water Monitoring Data Collection Standards and the Water Monitoring Data Reporting Standards can be accessed online at www.business.qld.gov.au

4.4. The licence holder must ensure that the transfer of data and reporting are consistent with the Water Monitoring Data Reporting Standards¹.

5. Other conditions

- 5.1. The operating and supply arrangements, and the monitoring required under this licence do not apply in situations where:
- 5.1.1 implementing the rules or meeting the requirements would be unsafe to a person or persons;
 - 5.1.2 releases are necessary to attain a reduced full supply level notified under section 399B of the *Water Supply (Safety and Reliability) Act 2008*. This condition applies until the end of the period determined under section 399B or section 399C of the *Water Supply (Safety and Reliability) Act 2008*;
 - 5.1.3 the licence holder is operating in accordance with the Wivenhoe Dam and Somerset Dam Manual of Operational Procedures for Flood Mitigation (Flood Manual) during a flood event. The commencement and cessation of the flood event is determined by a responsible person in accordance with section 370 of the *Water Supply (Safety and Reliability) Act 2008*.
- 5.2. In the circumstances identified in 5.1.1, 5.1.2 or 5.1.3, the licence holder must comply with the operational or emergency reporting requirements prescribed in Attachment 3.
- 5.3. The licence holder may at any time submit an interim program or an amendment to an existing program to the chief executive for approval in accordance with Attachment 4, if the holder proposes to operate in a way that does not meet the requirements of this licence.
- 5.4. Where there is conflict between the requirements of this licence and an interim program, the program prevails for the time it is in place.
- 5.5. The licence holder is required to collect and make publicly available through an industry accepted digital channel, updated at least monthly, details of each seasonal water assignment managed under this licence, including the sale price, the volume of water assigned and the location of where the water was assigned to and from.
- 5.6. The licence holder must provide the chief executive information about seasonal water assignments as directed by the chief executive within the stated time upon request,

This Resource Operations Licence is subject to the conditions attached.

Commencement of licence

The licence took effect on 7 December 2009.

Granted on 7 December 2009

Amended under section 186 of the *Water Act 2000* on 17/10/2022

Bernadette McNevin

Director, Water Management and Use, South Region

Attachment 1 Infrastructure details for Stanley River Water Supply Scheme

Table 1 – Somerset Dam, Stanley River—AMTD 7.4 km

Description of water infrastructure	
Description	Concrete gravity dam.
Full supply level	EL 97.0 m AHD
Minimum operating level	EL 71.5 m AHD
Storage capacity	
Full supply volume	302 749 ML
Minimum operating volume	4 000 ML
Storage curves	Drawing number: A3-110929.
Spillway arrangement	
Description of works	Eight radial gates with a fixed crest level of 100.45 m AHD.
Spillway level	E.L 100.45 m AHD
Spillway width	Eight 7.9 m wide x 7.0 m high radial gates (clear width of 63.4 m).
Spillway length	Nil.
Discharge characteristics	Refer to flood manual.
River inlet/outlet works	
Description of works	Eight 2.44 m wide x 3.66 m high sluice gates. Four 3.0 m diameter regulator valves. One 4.5 MW hydro-power station – releases only to made for hydro-power generation when dam is above 90.0 m AHD (rate of release up to 1 260 ML/day).
Inlet	Nil.
Cease to flow levels	River outlet: EL 71 m AHD.

Attachment 2 Environmental management rules

1 **Quality of water released**

When releasing water from Somerset Dam, the licence holder must draw water from the inlet level that optimises the quality of water released.

2 **Change in rate of release from infrastructure**

The licence holder must minimise the occurrence of adverse environmental impacts by ensuring that any change in the rate of release of water occurs incrementally.

3 **Daily flows past Mount Crosby Weir**

When the combined percentage of useable volume in storage of Wivenhoe and Somerset dams is greater than or equal to 15 per cent, daily flows past Mount Crosby Weir are required.

Attachment 3 Licence holder monitoring and reporting

Part 1 Monitoring requirements

Division 1 Water quantity

1 Streamflow and infrastructure water level data

- (1) The licence holder must record water level and volume and streamflow data in accordance with Table 1.
- (2) Infrastructure inflows may be determined based upon an infrastructure inflow derivation technique supplied by the licence holder and approved by the chief executive.

Table 1 – Locations where continuous water data recording required

Continuous time series storage water level data	Continuous time series flow data
—	Somerset Dam inflow
Somerset Dam headwater level	—

2 Releases from infrastructure

The licence holder must measure and record for each release of water from Somerset Dam—

- (a) the daily volume released;
- (b) the release rate, and for any change in release rate—
 - (i) the date and time of the change; and
 - (ii) the new release rate; and
- (c) the reason for each release.

3 Announced allocations

The licence holder must record details of announced allocation determinations including—

- (a) the announced allocations for medium and high priority water allocations;
- (b) the date announced allocations are determined; and
- (c) the value of each parameter applied for calculating the announced allocation.

4 Water taken by water users

The licence holder must record the total volume of water taken, by each water user for each zone as follows—

- (a) the total volume of water taken in each quarter of the water year;
- (b) the total volume of water entitled to be taken at any time; and
- (c) the basis for determining the total volume of water entitlement to be taken at any time.

5 Seasonal water assignment of a water allocation

The licence holder, upon consent to a seasonal water assignment, must record details of seasonal water assignment arrangements, including—

- (a) name of the assignee and the assignor;
- (b) volume of the assignment;
- (c) the location—
 - (i) from which it was assigned; and
 - (ii) to which it was assigned;
- (d) effective date of the seasonal water assignment; and
- (e) the sale price.

Division 2 Impact of infrastructure operation on natural ecosystems

6 Water quality

The licence holder must monitor and record water quality data in relation to relevant infrastructure listed in Attachment 1.

7 Bank condition

- (1) The licence holder must inspect banks for evidence of collapse and/or erosion within the ponded areas and downstream of the relevant infrastructure listed in Attachment 1, following instances of—
 - (a) rapid water level changes;
 - (b) large flows through infrastructure; or
 - (c) other occasions when collapse and/or erosion of banks may be likely.
- (2) For subsection (1), downstream of the relevant infrastructure means the distance of influence of infrastructure operations.

Part 2 Reporting requirements

8 Reporting requirements

The licence holder must provide the following reports in accordance with this part—

- (a) annual reports for the previous water year; and
- (b) operational or emergency reports.

Division 1 Annual reporting

9 Annual report

- (1) The licence holder must submit an annual report to the chief executive after the end of each water year.
- (2) The annual report must include—
 - (a) water quantity monitoring results as required under section 10;
 - (b) details of the impact of infrastructure operation on natural ecosystems as required under section 11;

- (c) a discussion on any issues that arose as a result of operating in accordance with this licence; and
- (d) a summary of sale price disclosure information and other seasonal; water assignment information as required under section 5.

10 Water quantity monitoring

The licence holder must include in the annual report made under section 9—

- (a) a summary of announced allocation determinations, including—
 - (i) an evaluation of the announced allocation procedures and outcomes; and
 - (ii) the date and value for the initial announced allocation and for each change made to an announced allocation;
- (b) streamflow and infrastructure water levels—all records referred to in section 1;
- (c) the total annual volume of water taken by each water user, specified by zone, namely—
 - (i) the total volume of supplemented water taken;
 - (ii) the total volume of supplemented water entitled to be taken; and
 - (iii) the basis for determining the volume entitled to be taken;
- (d) details of seasonal water assignments, namely—
 - (i) the total number of seasonal water assignments; and
 - (ii) the total volume of water seasonally assigned;
- (e) all details of changes to infrastructure or the operation of the infrastructure that may impact on compliance with rules in this licence;
- (f) details of any new monitoring devices used such as equipment to measure streamflow; and
- (g) the details and status of any programs implemented under condition 5.3.

11 Impact of infrastructure operation on natural ecosystems

The licence holder must include in the annual report made under section 9—

- (a) a summary of environmental considerations made by the licence holder in making operational and release decisions;
- (b) a summary of the environmental outcomes of the decision including any adverse environmental impacts;
- (c) a summary of bank condition assessment, including—
 - (i) results of investigations of bank slumping and/or erosion identified in ponded areas and/or downstream of infrastructure undertaken in accordance with section 7; and
 - (ii) changes to the operation of infrastructure to reduce instances of bank slumping and/or erosion;
- (d) water quality—all records referred to in section 6 and a discussion and assessment of water quality issues.

Division 2 Operational or emergency reporting

12 Operational or emergency reporting²

- (1) The licence holder must notify the chief executive—
 - (a) within one business day of becoming aware of any of the following operational incidents—
 - (i) a non-compliance by the licence holder with the conditions of this licence;
 - (ii) instances of bank slumping within the impounded areas or downstream of the water infrastructure to which this licence relates;
 - (iii) a decision being made to introduce a reduced full supply level for Somerset Dam under section 399B of the *Water Supply (Safety and Reliability) Act 2008*; and
 - (iv) a responsible person defined under section 370 of the *Water Supply (Safety and Reliability) Act 2008* determining that a flood event has commenced under the Flood Manual;
 - (b) an emergency where, as a result of the emergency, the licence holder cannot comply with the conditions of the licence.
- (2) The licence holder must provide to the chief executive, upon request, and within the timeframe requested, a report which includes details of—
 - (a) the incident or emergency;
 - (b) the conditions under which the incident or emergency occurred;
 - (c) any responses or activities carried out as a result of the incident or emergency; and
 - (d) in relation to the emergency only, any requirements under this licence that the licence holder is either permanently or temporarily unable to comply with due to the emergency.

² This does not preclude requirements for dam safety under the *Water Supply (Safety and Reliability) Act 2008*, *Water Act 2000* and any other applicable legislation.

Attachment 4 Interim programs

1 Submission of interim program

The licence holder may, at any time, submit an interim program to the chief executive for approval, including a timetable for returning to full compliance with the licence and interim arrangements.

2 Implementing and publishing interim program

Following approval of the program by the chief executive, the licence holder—

- (a) must implement and operate in accordance with the interim program;
and
- (b) make public details of the interim program on its internet site.

Glossary

Term	Definition
AHD	Australian Height Datum, which references a level or height to a standard base level.
AMTD	Adopted middle thread distance
Announced allocation	For a water allocation managed under a water resource operations licence, means a number, expressed as a percentage, which is used to determine the maximum volume of water that may be taken in a water year under the authority of a water allocation.
Assignee	The person or entity to whom an interest or right to water is being transferred (e.g. seasonally assigned).
Assignor	The person or entity that transfers an interest or right in water to an assignee (e.g. a seasonal assignment).
EL	Elevation
Full supply volume	The specified maximum volume of water within the ponded area of a dam, weir or barrage, which corresponds to the full supply level.
Headwater level	The level (or elevation) of the water immediately upstream of a dam, weir, or other hydraulic structure.
Infrastructure	A dam, weir or other water storage and any associated works for taking or interfering with water in a watercourse, lake or spring.
Inlet	Infrastructure comprised of an entrance channel, intake structure, and gate or valve, which allow for water to be taken from the storage and discharged into the watercourse downstream of the storage.
Location	For a water allocation, means the zone and/or place from which water under the water allocation can be taken. For a water licence, means the section of the watercourse, lake or spring abutting or contained by the land described on the water licence at which water may be taken.
Megalitre (ML)	One million litres
Minimum operating level	For a dam or weir, is the volume of water within the ponded area of a dam, weir or barrage below which water cannot be released or taken from the infrastructure under normal operating conditions.
Minimum operating volume	The specified minimum volume of water within the ponded area of a dam weir or barrage below which water cannot be released or taken from the infrastructure under normal operating conditions.
Outlet	Means an arrangement on a dam or weir that allows stored water to be released downstream.
Ponded area	Area of inundation at full supply level of a dam, weir or barrage.
Release	Water from a dam or weir that passes downstream from the dam or weir either through the dam or weir outlet works or over the dam spillway.
Release rate	Rate of release of water from a storage facility, for example, a dam or weir.
Streamflow	Includes flow of water resulting from tributary inflows, and does not include releases of supplemented water.