Name of dataset or data source:	Greater Sydney Water Supply Data
Custodian of the dataset or data source:	Water NSW
Description:	The dataset meets the legislative requirements of WaterNSW as stipulated by Water Act 2007. Specifically: - Surface Water Resource Information / Storages: Level, Volume, Supply Volume and Outflow - Meteorological Information : Rainfall, Wind speed/direction, evaporation, temperature and relative humidity - Water Quality information: turbidity, electrical conductivity, dissolved oxygen and temperature. Sensor data. Data are unverified.
Data quality rating:	★ Institutional Environment ★ Accuracy ★ Coherence ★ Interpretability ★ Accessibility

INSTITUTIONAL ENVIRONMENT — High ★

- ✔ The agency publishing this data is the recognised data custodian.
- ✔ Data is collected and managed according to a data quality framework.
- ✔ Data governance roles and responsibilities are clearly assigned for this dataset or data source.
- ✔ Data collection is mandated or required by Water Act 2007
- ✔ Custodian has no commercial interest or conflict of interest in the data.

Find out more about the data quality framework from the Custodian (contact details below).

Find out more about the data governance responsibilities from the Custodian (contact details below).

ACCURACY — High ★

- ✔ This data has been subject to quality assurance processes. ie Checking for errors at each stage of data collection and processing, or verifying data entry and making corrections if necessary.
- ✔ The data collection met the objectives of the primary user. The data correctly represents what it was designed to measure, monitor or report. Refer to *Scope and Coverage* in the last section of this report

for more information.

✔ There are no known gaps in the data. (For example: non-responses, missing records, data not collected.)

✔ There have not been any adjustments, changes or other factors that could impact the validity of the data. (For example: weighting, rounding, de-identification of data; changes or flaws in data collection or verification methods.)

✔ Revision policy: If errors are identified, data is revised and the revision is publicised

Find out more about the quality assurance processes from the Data Quality Framework.

COHERENCE — High ★

✔ Standard definitions, common concepts, classifications and data recording practices have been used.
✔ Elements within the data can be meaningfully compared.
✔ This data is generally consistent with similar or related data sources.
✔ This data is part of a time series. There have not been any significant changes in the way data items are defined, classified or counted since the start of the series.
✔ This data is consistent with previous releases. There have been no changes in methodology or external impacts since the last release in this series.

More information about standards: Data are collected under the WaterNSW Water Quality Monitoring Framework and includes standards for data collection and equipment maintenance (AS3778, AS3912.1 and WHO Guide to Hydrological Practices)

More information about similar or related data sources: Data are provided to BOM as required in the Water Act 2007. BOM republish this information.

This dataset or data source is part of a time series.

Data was first collected or produced on 01/07/2008

INTERPRETABILITY — Medium ★

✔ Information is available about the primary data sources and methods of data collection. (For example: instruments, forms, instructions.)
✔ Information is available to help Users evaluate the accuracy of the data and any level of error.
✔ Information is available to explain concepts, help Users correctly interpret the data and understand how it can be used.

✔ Information is available to explain ambiguous or technical terms used in the data.

✗ There is <u>no</u> **data dictionary** available to explain the meaning of data elements, their origin, format and relationships.

Find out more about the primary data sources and methods of data collection from the Custodian (contact details below).

Find out more about how to evaluate the accuracy of the data and any level of error from the Custodian (contact details below).

Find out more about concepts used in this dataset and how to understand or interpret the data from the Custodian (contact details below).

Find out more about ambiguous or technical terms used in the data from the Custodian (contact details below).

ACCESSIBILITY | Medium ⭐

✔ This dataset or data source is available online with an **open licence** –Attribution (CC BY)
✔ This dataset or data source is available in a **machine-processable, structured format**.
✔ This dataset or data source is available in a **non-proprietary format**.
✔ This dataset or data source is described using **open standards** and **persistent identifiers**.

✗ This dataset or data source is <u>not</u> **linked to other data**.

This dataset or data source is available in the following digital file types or formats: CSV, Database

Additional information about the use of identifiers and links to other data: N/A

Information to help users evaluate relevance

Scope & Coverage:

What the data was designed to measure, monitor, or report: The data meets the legislative requirements of

Water Act 2007. The data are originally collected to monitor system status and aid system configuration and operations. Data are largely unverified from field sensors.

Target of the data collection: Data were collected to monitor system status and aid system configuration and operations. The data are provided to Bureau of Meteorology in accordance with the Water Act 2007.

There were no individuals, groups or occurrences excluded from the data collection.

Geographic detail:

Data cover the following geographic area(s): State

The data are available at the following levels of geography:Local Government Area (LGA), Locality (Suburb)

At lower levels of geography, the data are represented or apportioned as follows: N/A

Outputs:

The data are available as: Primary (original raw numbers), Analytical (structured content, aggregated or derived information), Estimates

Other cautions:

The data does not represent or cover: The data do not represent laboratory derived water quality data. All water quality data are obtained via in place instrumentation are supplied as unverified.

Other cautions or recommendations to enable effective use and interpretation of the data: Data are provided from in place instrumentation and reported without verification.

Reference period:

Period for which the data were obtained: 01/08/2007 - 01/05/2016

There were no exceptions to the data collection or observation period. (eg delays in receipt of data, changes to recording processes)

Timing:

Updates and revisions: If errors are identified, data is revised and the revision is publicised

The data became available (ie released or published) on: 01/07/2008

Frequency of production:

Data is collected or expected to be produced: Daily

For more information about this dataset or data source, contact:	Philip Glastonbury
Custodian email:	Philip.Glastonbury@waternsw.com.au
Custodian phone:	0247242465

Understanding the Data Quality Statement

The data quality statement aims to help you understand how a particular dataset could be used and whether it can be compared with other, similar datasets. It provides a description of the characteristics of the data to help you decide whether the data will be fit for your specific purpose.

About the quality rating:

The reporting questionnaire asks five questions for each of these data quality dimensions:

- Institutional Environment
- Accuracy
- Coherence
- Interpretability
- Accessibility

For each question: "yes" = 1 point; "no" = 0 points

The number of points determines the Quality Level for each dimension (high, medium, low).

Only dimensions with four or five points receive a star.

Points	Quality Level	Star / No Star
0	LOW	No Star
1	LOW	No Star
2	LOW	No Star
3	MEDIUM	No Star
4	MEDIUM	Star
5	HIGH	Star

More information?

The data quality reporting questionnaire and further explanation of the data quality dimensions is provided in the NSW Government Standard for Data Quality Reporting published at http://finance.nsw .gov.au/ict/data-interoperability-standards

Evaluating data quality

Quality relates to the data's "fitness for purpose". Users can make different assessments about the data quality of the same data, depending on their "purpose" or the way they plan to use the data.

The following questions may help you evaluate data quality for your requirements. This list is not exhaustive. Generate your own questions to assess data quality according to your specific needs and environment.

- What was the primary purpose or aim for collecting the data?
- How well does the coverage (and exclusions) match your needs?
- How useful are these data at small levels of geography?
- Does the population presented by the data match your needs?
- To what extent does the method of data collection seem appropriate for the information being gathered?
- Have standard classifications (eg industry or occupation classifications) been used in the collection of the data? If not, why? Does this affect the ability to compare or bring together data from different sources?
- Have rates and percentages been calculated consistently throughout the data?
- Is there a time difference between your reference period, and the reference period of the data?
- What is the gap of time between the reference period (when the data were collected) and the release date of the data?
- Will there be subsequent surveys or data collection exercises for this topic?
- Are there likely to be updates or revisions to the data after official release?