

Title Bushfire Impact Water Quality

Abstract

Water quality loggers were installed in seven NSW estuaries with bushfire impact in the surrounding catchment area in January 2020 - Bellinger River, Khappinghat Creek, Lake Conjola, Termeil Lake, Meroo Lake, Tuross River and Wonboyn River. These loggers will record the water quality response in each estuary over time with a range of physico-chemical indicators, including; temperature, conductivity, salinity and dissolved oxygen, and in the Wonboyn River; pH, turbidity, chlorophyll-a and coloured dissolved organic matter. The data will be updated approximately monthly.

Resource locator

[Show on SEED Web Map](#)

Name: Show on SEED Web Map

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Display dataset on SEED's map

Function: download

[Data Quality Statement](#)

Name: Data Quality Statement

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Data quality statement for Bushfire impact water quality

Function: download

[Lake Conjola Water Quality Time Series Jan - Feb 2020](#)

Name: Lake Conjola Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in Lake Conjola.

Function: download

[Meroo Lake Water Quality Time Series Jan - Feb 2020](#)

Name: Meroo Lake Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in Meroo Lake.

Function: download

[Termeil Lake Water Quality Time Series Jan - Feb 2020](#)

Name: Termeil Lake Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in Termeil Lake.

Function: download

[Tuross River Water Quality Time Series Jan - Feb 2020](#)

Name: Tuross River Water Quality Time Series Jan - Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Timeseries of conductivity, temperature and dissolved oxygen water quality data in Tuross River.

Function: download

[Wonboyn River](#)

Name: Wonboyn River Multi-Probe Water Quality Time Series Jan - Feb 2020

[Multi-Probe](#)
[Water Quality](#)
[Time Series](#)
[Jan - Feb 2020](#)

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data from the mid-estuarine area of the Wonboyn River. Data was collected using a Xylem EXO2 multi-sensor probe, logging at 15 minute intervals. Logger was deployed in January 2020, following extensive bushfire in the catchment area, and ahead of the artificial opening of the entrance channel. Logger remains in place. Data will be updated once more is available.

Function: download

[Bellinger River](#)
[\(SiteID BEL2\)](#)
[Water Quality](#)
[Time Series](#)

Name: Bellinger River (SiteID BEL2) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in the Bellinger River (SiteID BEL2).

Function: download

[Bellinger River](#)
[\(SiteID BEL3\)](#)
[Water Quality](#)
[Time Series](#)

Name: Bellinger River (SiteID BEL3) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in the Bellinger River (SiteID BEL3).

Function: download

[Bellinger River](#)
[\(SiteID BEL4\)](#)
[Water Quality](#)
[Time Series](#)

Name: Bellinger River (SiteID BEL4) Water Quality Time Series

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of conductivity, temperature and dissolved oxygen water quality data in the Bellinger River (SiteID BEL4)

Function: download

[NSW DPIE](#)
[Water Quality](#)
[Data Logger](#)
[Site Locations](#)

Name: NSW DPIE Water Quality Data Logger Site Locations

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

GPS coordinates of water quality loggers installed to monitor the water quality response of bushfire impact in select NSW estuaries.

Function: download

[Lake Conjola](#)
[Water Quality](#)
[Time Series](#)
[Feb - Mar 2020](#)

Name: Lake Conjola Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data in Lake Conjola, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data up to March 2020.

Function: download

[Meroo Lake](#)
[Water Quality](#)
[Time Series](#)
[Feb - Mar 2020](#)

Name: Meroo Lake Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data in Meroo Lake , collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data up to March 2020.

Function: download

[Termeil Lake](#)
[Water Quality](#)
[Time Series](#)
[Feb - Mar 2020](#)

Name: Termeil Lake Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data in Termeil Lake, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data up to March 2020.

Function: download

[Tuross River](#)
[Water Quality](#)
[Time Series](#)
[Feb - Mar 2020](#)

Name: Tuross River Water Quality Time Series Feb - Mar 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data in Tuross River, collected using water quality loggers installed in January 2020 following bushfire in the catchment. This is the updated data, including data up to March 2020.

Function: download

[Wonboyn River](#)
[Multi-Probe](#)
[Water Quality](#)
[Time Series](#)
[Feb 2020](#)

Name: Wonboyn River Multi-Probe Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data from the upper estuarine area of the Wonboyn River. Data was collected using a Xylem EXO2 multi-sensor probe, logging at 10 minute intervals. Logger was deployed in early February 2020, following extensive bushfire in the catchment area, and ahead of the artificial opening of the entrance channel, and ahead of large rains forecast for the area. Logger remains in place. Data will be updated once more is available.

Function: download

[Wonboyn River](#)
[\(SiteID WBN4-](#)
[Bottom\) Water](#)
[Quality Time](#)
[Series Feb](#)
[2020](#)

Name: Wonboyn River (SiteID WBN4-Bottom) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the bottom of the water column (3.5m depth) at SiteID WBN4 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN4 in Wonboyn River.

Function: download

[Wonboyn River](#)
[\(SiteID WBN3-](#)
[Bottom\) Water](#)
[Quality Time](#)
[Series Feb](#)
[2020](#)

Name: Wonboyn River (SiteID WBN3-Bottom) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the bottom of the water column (4.0m depth) at SiteID WBN3 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN3 in Wonboyn River.

Function: download

[Wonboyn River](#)
[\(SiteID WBN3-](#)
[Surface\) Water](#)
[Quality Time](#)
[Series Feb](#)
[2020](#)

Name: Wonboyn River (SiteID WBN3-Surface) Water Quality Time Series Feb 2020

Protocol: WWW:DOWNLOAD-1.0-http--download

Description:

Time series of water quality data collected at the surface of the water column (0.5m depth) at SiteID WBN3 in the Wonboyn River, collected using water quality loggers installed in February 2020 following bushfire in the catchment. This is the updated data, including data up to end of February 2020. See site ID coordinates sheet for exact location of site WBN3 in Wonboyn River.

Function: download

Unique resource identifier	
Code	0dacd012-88d7-4f65-bd29-4ae5dfe3bc3d
Presentation form	Table digital
Edition	1
Dataset language	English
Metadata standard	
Name	ISO 19115
Edition	2016
Dataset URI	https://datasets.seed.nsw.gov.au/dataset/0dacd012-88d7-4f65-bd29-4ae5dfe3bc3d
Purpose	Research
Status	On going
Spatial representation	
Type	vector
Geometric Object Type	point
Geometric Object Count	14
Spatial reference system	
Code identifying the spatial reference system	4283
Spatial resolution	10 m
Additional information source	Temporal coverage varies between locations. Water quality loggers were installed on different dates in different locations. Bellinger River - September 2019 Khappinghat Creek - January 2020 Lake Conjola - January 2020 Termeil Lake - January 2020 Meroo Lake - January 2020 Tuross River - January 2020 Wonboyn River - January 2020
Topic category	

Keyword set	
keyword value	<p>WATER-Quality</p> <p>WATER-Lakes</p> <p>WATER-Rivers</p> <p>WATER-Salinity</p> <p>WATER-Surface</p>
Originating controlled vocabulary	
Title	ANZLIC Search Words
Reference date	2008-05-16
Geographic location	
West bounding longitude	149.80957
East bounding longitude	153.457031
North bounding latitude	-37.474858
South bounding latitude	-30.183122
Vertical extent information	
Minimum value	-100
Maximum value	2228
Coordinate reference system	
Authority code	urn:ogc:def:cs:EPSG::
Code identifying the coordinate reference system	5711
Temporal extent	
Begin position	2020-01-01
End position	N/A
Dataset reference date	
Resource maintenance	
Maintenance and update frequency	Continual
Contact info	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact

Lineage	Different water quality loggers have been used in different locations. Bellinger River - HOB0 U24-002-C Conductivity Logger, HOB0 U26-001 DO Logger Khappinghat Creek - HOB0 U24-002-C Conductivity Logger, HOB0 U26-001 DO Logger Lake Conjola - HOB0 U24-002-C Conductivity Logger, HOB0 U26-001 DO Logger Termeil Lake - Odyssey Conductivity Logger, HOB0 U26-001 DO Logger Meroo Lake - Odyssey Conductivity Logger, HOB0 U26-001 DO Logger Tuross River - Odyssey Conductivity Logger, HOB0 U26-001 DO Logger Wonboyn River - HOB0 U24-002-C Conductivity Logger, HOB0 U26-001 DO Logger, Xylem EXO2 Multi-Probe Water Quality Logger Data is logged at 15 minute intervals in Khappinghat Creek, Lake Conjola, Termeil Lake, Meroo Lake and Tuross River, at 10 minute intervals in Wonboyn River and at 1 hour intervals in Bellinger River. At time of logger download in the field, loggers are thoroughly cleaned, checked for drift using standards, and field calibrated if needed/where possible. Any malfunctioning loggers are returned to the laboratory and replaced. Data is cleaned following standard QAQC procedures before being made available. Location of loggers was recorded with Lowrance boat-based GPS.
Limitations on public access	
Scope	dataset
DQ Completeness Omission	
Effective date	2020-02-18
Explanation	Some fields have missing data. This is due to either; data is awaiting thorough checking and quality assurance before publishing, data does not meet QAQC standards, erroneous data has been collected and subsequently discarded, or data is not available for a given time period. Not all indicators are collected at all logger locations. Listed data fields in each site are the only possible indicators for that site.
Responsible party	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact
Metadata point of contact	
Contact position	Data Broker
Organisation name	NSW Department of Climate Change, Energy, the Environment and Water
Telephone number	131555
Email address	data.broker@environment.nsw.gov.au
Web address	https://www.nsw.gov.au/departments-and-agencies/dcceew
Responsible party role	pointOfContact
Metadata date	2024-02-26T14:17:51.323648
Metadata language	