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Bureau of Meteorology

Urban Water Management Information Requirements

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1.1	30 April 2018	30 April 2018	Open	Organisation removed from Category F spatial reporting exceptions and minor change to U10.7 description There were no changes to Part 6 and so the entire document takes effect on publication
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Introduction

This document is incorporated by reference in Part 7 of the *Water Regulations 2008* (Regulation 1.06). Its contents have effect as though they were written into the Regulations.

Parts 1 to 5 of this document specify the water information requirements for subcategories 7a, 7b, 7c and 7d in Category 7 of the *Water Regulations 2008* (Schedule 3, Part 8—Subcategories in category 7—information about urban water management).

Part 6 of this document specifies the metadata and contextual information requirements for Category 7 water information, for the purposes of Regulation 7.11.

Hyperlinks: All linked references, except for the vector data files defining the spatial extent of operational boundaries (Table 1 and Table 2), are for explanatory purposes only and do not form part of this incorporated document.

Date of effect:

Parts 1 to 5 of this document take effect on publication.

Part 6 of this document takes effect six months after the Bureau of Meteorology notifies Category L organisations that the metadata and contextual information requirements have changed.

Glossary

This glossary includes terms appearing in Parts 1 to 6 of this document, not otherwise defined in the Water Act or Water Regulations.

Irrigation water scheme has the same meaning as **irrigation network**, defined in Section 7 of the *Water Act 2007*.

Plant means the treatment plant, relevant to the particular urban water system, of the reporting organisation. It includes water treatment plants, wastewater treatment plants and water reclamation plants.

Transfer party means another service provider or other operational area within one's own operation. Transfer party includes: water utility; defined operational area of a utility; private water manager.

U codes are detailed component water volumes describing the availability, movement and use of water within urban water systems. Typically, U code volumes are at the plant or transfer party scale and provide a detailed breakdown of W indicator volumes.

W indicators are component water volumes describing the availability, movement and use of water within urban water systems. W indicators are the water resources indicators used to compile the urban National Performance Report. W indicator volumes are at the scale of the urban National Performance Reporting regions.

Part 1—General water information requirements for Category 7

W indicator and U code volume reporting requirements

Persons fulfil water information requirements for each information subcategory in Category 7 (subcategories 7a, 7b, 7c and 7d) by providing the W indicator or U code volumes listed in tables in Parts 2 to 5 in this document, as follows:

- persons listed in Person Category F and Person Category M give W indicator volumes
- persons listed in Person Category L give U code volumes, except for the following organisations which give W indicator and U code volumes for specified areas, detailed in Table 2:
 - South Australian Water Corporation (SA Water)
 - Water Corporation
 - Water NSW.

Spatial reporting requirements

Unless specified in Table 1 or Table 2, persons are required to report volumes for their full area of operations.

Person Category F organisations listed in Table 1 are required to report separate volumes for each of the specified areas.

Person Category L organisations listed in Table 2 are required to report separate volumes for each of the specified areas. Table 2 also specifies whether W indicator or U code volumes must be given, for each area.

Table 1. Category F spatial reporting exceptions

Organisation	Area	Area boundary defined by the spatial extents contained in the vector data files hyperlinked below
Power and Water Corporation (Power and Water)	Darwin	Cat7_F_Power_and_Water-Darwin.zip
	Alice Springs	Cat7_F_Power_and_Water-Alice_Springs.zip

Table 2. Category L spatial reporting exceptions and reporting requirements for each area

Organisation	Area	Reporting requirement	Area boundary defined by the spatial extents contained in the vector data files hyperlinked below
South Australian Water Corporation (SA Water)	Adelaide Metro	U code volumes	Cat7_L_SA_Water-Adelaide.zip
	Corporation	W indicator volumes	Cat7_L_SA_Water-Corporation.zip
Water Corporation	Perth	U code volumes	Cat7_L_Water_Corp-Perth.zip
	Mandurah	U code volumes	Cat7_L_Water_Corp-Mandurah.zip
	Albany	W indicator volumes	Cat7_L_Water_Corp-Albany.zip
	Geraldton	W indicator volumes	Cat7_L_Water_Corp-Geraldton.zip
	Australind/Eaton	W indicator volumes	Cat7_L_Water_Corp-Australind-Eaton.zip
	Bunbury	W indicator volumes	Cat7_L_Water_Corp-Bunbury.zip
	Busselton	W indicator volumes	Cat7_L_Water_Corp-Busselton.zip
	Kalgoorlie-Boulder	W indicator volumes	Cat7_L_Water_Corp-Kalgoorlie_Boulder.zip
Water NSW	Greater Sydney	U code volumes	Cat7_L_Water_NSW-Greater_Sydney.zip
	Fish River Water Supply Scheme	W indicator volumes	Cat7_L_Water_NSW-Fish_River_Water_Supply_Scheme.zip

Part 2—Water information requirements for subcategory 7a: urban water supply information

Subcategory 7a

Urban water supply information, provided as volumes and expressed in megalitres, of a kind specified for the purposes of this item in the document titled *Urban Water Management Information Requirements* (see regulation 1.06)

Further information about the W indicators and U codes listed below, including explanatory notes and examples, can be found in the [Category 7 reporting handbook](#) at

<http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf>.

Table 3. Component water volumes for subcategory 7a

Subcategory 7a—Urban water supply information			
Indicator	W indicator description	Code	U code description
Sources			
W1	Volume of water sourced from surface water	U1.1	Volume of surface water sourced from regulated sources, for each surface water resource
		U1.2	Volume of surface water sourced from unregulated sources, for each surface water resource
W2	Volume of water sourced from groundwater	U2.1	Volume of groundwater sourced from regulated sources, for each groundwater resource
		U2.2	Volume of groundwater sourced from unregulated sources, for each groundwater resource
W3.1	Volume of water sourced from desalinated marine waters	U3.1	Volume of water sourced from desalination of marine waters, for each desalination plant
Transfers			
W5.3	Volume of water, excluding recycled water, received from other service providers or operational areas within the urban water supply system	U4.1	Volume of water, excluding recycled water, received from other service providers or operational areas within the urban water supply system, for each transfer party

Subcategory 7a—Urban water supply information			
Indicator	W indicator description	Code	U code description
W14.3	Volume of water, excluding recycled water, exported to other service providers or operational areas within the urban water supply system	U8.1	Volume of water, excluding recycled water, exported to other service providers or operational areas within the urban water supply system, for each transfer party
Production			
W11.3	Volume of potable water produced for supply into the urban water supply system	U9	Volume of potable water produced for supply into the urban water supply system
Use			
W8.3	Volume of water supplied to residential customers	U10.1	Volume of water supplied to residential customers
W9.3	Volume of water supplied to non-residential customers	U10.2	Volume of water supplied to commercial, industrial and municipal customers
		U10.3	Volume of water supplied to agricultural and individual irrigation customers
		U10.4	Volume of water supplied to irrigation water schemes
		U10.5	Volume of water supplied to other customers
		U10.6	Volume of water supplied as environmental flows from the urban water supply system
		U10.7	Volume of water supplied for own and other use
W31	Volume of water returned to surface water from the urban water supply system	U6.1	Volume of water returned to surface water from the urban water supply system, for each surface water resource
W13	Volume of water returned as environmental flows from outside of the urban water supply system	U14.1	Volume of water returned as environmental flows from outside the urban water supply system, for each surface water or groundwater resource

Subcategory 7a—Urban water supply information			
Indicator	W indicator description	Code	U code description
W10.1	Volume of non-revenue water	U12.2	Volume of non-revenue water – real losses
		U12.4	Volume of non-revenue water – apparent losses

Part 3—Water information requirements for subcategory 7b: urban wastewater information

Subcategory 7b

Urban wastewater information, provided as volumes and expressed in megalitres, of a kind specified for the purposes of this item in the document titled *Urban Water Management Information Requirements* (see regulation 1.06)

Further information about the W indicators and U codes listed below, including explanatory notes and examples, can be found in the [Category 7 reporting handbook](http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf) at <http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf>.

Table 4. Component water volumes for subcategory 7b

Subcategory 7b—Urban wastewater information			
Indicator	W indicator description	Code	U code description
Wastewater collected			
W16	Volume of wastewater, excluding trade waste, collected	U22.3	Volume of wastewater, excluding trade waste, collected
W17	Volume of trade waste collected	U22.2	Volume of trade waste collected
Inflow to plant			
W18.4	Volume of wastewater inflows to wastewater treatment plants	U23.1	Volume of wastewater inflow to wastewater treatment plants (excluding to bulk wastewater treatment plants), for each wastewater treatment plant
		U23.2	Volume of wastewater inflow to bulk wastewater treatment plants, for each wastewater treatment plant

Subcategory 7b—Urban wastewater information			
Indicator	W indicator description	Code	U code description
Transfers			
W18.2	Volume of wastewater received from other service providers or operational areas within the urban wastewater system	U20.1	Volume of wastewater received from other service providers or operational areas within the urban wastewater system (excluding to a bulk wastewater treatment system), for each transfer party and wastewater treatment plant
		U20.3	Volume of wastewater received from other service providers to a bulk wastewater treatment system, for each transfer party and wastewater treatment plant
W18.1	Volume of wastewater exported to other service providers or operational areas within the urban wastewater system	U21.1	Volume of wastewater exported to other service providers or operational areas within the urban wastewater system, for each transfer party and wastewater treatment plant
		U20.4	Volume of treated wastewater received from own organisation, for each wastewater treatment plant
Extraction for sewer mining			
W18.3	Volume of wastewater taken through sewer mining	U83.1	Volume of wastewater taken through sewer mining, for each reclamation plant

Subcategory 7b—Urban wastewater information			
Indicator	W indicator description	Code	U code description
Outflow from plant			
W18.5	Volume of treated effluent outflows from wastewater treatment plants	U24.1	Volume of treated effluent outflow, from each wastewater treatment plant
W29	Volume of treated wastewater disposals	U25.1	Volume of treated wastewater disposals to surface water, for each wastewater treatment plant
		U25.2	Volume of treated wastewater disposals to landscape, for each wastewater treatment plant
		U25.3	Volume of treated wastewater disposals to sea or estuary, for each wastewater treatment plant
		U29.1	Volume of treated wastewater disposals back to sewer for further treatment, for each wastewater treatment plant
W30	Volume of wastewater losses and discharges	U28.4	Volume of losses during wastewater collection process
		U28.9	Volume of losses during wastewater treatment process
		U28.13	Volume of losses during management of treated wastewater

Part 4—Water information requirements for subcategory 7c: urban recycled water information

Subcategory 7c

Urban recycled water information, provided as volumes and expressed in megalitres, of a kind specified for the purposes of this item in the document titled *Urban Water Management Information Requirements* (see regulation 1.06)

Further information about the W indicators and U codes listed below, including explanatory notes and examples, can be found in the [Category 7 reporting handbook](#) at

<http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf>.

Table 5. Component water volumes for subcategory 7c

Subcategory 7c—Urban recycled water information			
Indicator	W indicator description	Code	U code description
Transfers			
W6	Volume of recycled water received from other service providers or operational areas within the urban water system	U41.1	Volume of recycled water received from other service providers or operational areas within the urban water system, for each transfer party and wastewater treatment plant
W15	Volume of recycled water exported to other service providers or operational areas within the urban water system	U42.1	Volume of recycled water exported to other service providers or operational areas within the urban water system, for each transfer party and wastewater treatment plant
Use			
W20	Volume of recycled water supplied to residential customers	U44.1	Volume of recycled water supplied to residential customers, for each treatment plant
W21	Volume of recycled water supplied to non-residential customers	U43.5	Volume of recycled water supplied for own use, for each treatment plant
		U44.2	Volume of recycled water supplied to commercial, industrial and municipal customers, for each treatment plant
		U44.3	Volume of recycled water supplied to agricultural and individual irrigation customers, for each treatment plant

Subcategory 7c—Urban recycled water information			
Indicator	W indicator description	Code	U code description
		U44.4	Volume of recycled water supplied to irrigation water schemes, for each treatment plant
		U44.5	Volume of recycled water supplied for groundwater recharge, for each treatment plant
		U44.10	Volume of recycled water supplied to other customers, for each treatment plant
W23	Volume of recycled water supplied as environmental flows	U44.6	Volume of recycled water supplied as environmental flows, for each treatment plant

Part 5—Water information requirements for subcategory 7d: urban stormwater information

Subcategory 7d

Urban stormwater information, provided as volumes and expressed in megalitres, of a kind specified for the purposes of this item in the document titled *Urban Water Management Information Requirements* (see regulation 1.06)

Further information about the W indicators and U codes listed below, including explanatory notes and examples, can be found in the [Category 7 reporting handbook](#) at

<http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf>.

Table 6. Component water volumes for subcategory 7d

Subcategory 7d—Urban stormwater information			
Indicator	W indicator description	Code	U code description
Use			
W28.4	Volume of urban stormwater supplied to residential customers	U62.1	Volume of urban stormwater supplied to residential customers, for each stormwater harvesting scheme
W28.5	Volume of urban stormwater supplied to non-residential customers	U62.2	Volume of urban stormwater supplied to commercial, industrial and municipal customers, for each stormwater harvesting scheme
		U62.3	Volume of urban stormwater supplied to agricultural and individual irrigation customers, for each stormwater harvesting scheme
		U62.4	Volume of urban stormwater supplied to irrigation water schemes, for each stormwater harvesting scheme
		U62.5	Volume of urban stormwater supplied for groundwater recharge, for each stormwater harvesting scheme
		U62.6	Volume of urban stormwater supplied as environmental flows, for each stormwater harvesting scheme
		U62.10	Volume of urban stormwater supplied to other customers, for each stormwater harvesting scheme

Part 6—Metadata and contextual information requirements for Category 7

For the purposes of Regulations 1.06 and 7.11 of the *Water Regulations 2008*, Part 6 of this document sets out the metadata and contextual information that must be given to the Bureau of Meteorology, at the same time as water information in Category 7.

Metadata and contextual information must be given with U code volumes only. There is no requirement to provide metadata or contextual information with W indicator volumes.

Hence, Person Categories F and M are not required to provide any metadata or contextual information with Category 7 information. Person Category L is required to give all metadata and contextual information with Category 7 information as listed in the tables below for particular U codes, if it is in a person's possession, custody or control.

Further information about the elements listed below, including descriptions and examples, can be found in the [Category 7 reporting handbook](http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf) at <http://www.bom.gov.au/water/regulations/schedules/document/CategorySevenReportingHandbook.pdf>.

U Codes U1.1, U1.2, U2.1, U2.2
Name of water resource
Name of water management area
Name of plant
Quantification method
Uncertainty
Assumptions

U Codes U3.1, U20.4, U23.1, U23.2, U24.1, U25.1, U25.2, U25.3, U29.1, U43.5, U44.1, U44.2, U44.3, U44.4, U44.5, U44.6, U44.10, U83.1
Name of plant
Quantification method
Uncertainty
Assumptions

U Codes U3.1, U20.4, U23.1, U23.2, U24.1, U25.1, U25.2, U25.3, U29.1, U43.5, U44.1, U44.2, U44.3, U44.4, U44.5, U44.6, U44.10, U83.1

U Codes U4.1, U8.1

Name of water resource

Name of transfer party

Quantification method

Uncertainty

Assumptions

U Codes U9, U10.1, U10.2, U10.3, U10.4, U10.5, U10.6, U10.7, U12.2, U12.4, U22.2, U22.3, U28.4, U28.9, U28.13
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Quantification method

Uncertainty

Assumptions

U Code U6.1, U14.1

Name of water resource

Name of water management area

Quantification method

Uncertainty

Assumptions

U Codes U20.1, U20.3, U21.1, U41.1, U42.1
Name of plant
Name of transfer party
Quantification method
Uncertainty
Assumptions

U Codes U62.1, U62.2, U62.3, U62.4, U62.5, U62.6, U62.10
Name of stormwater harvesting scheme
Quantification method
Uncertainty
Assumptions