



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

Regulations requiring that water taken for irrigation purposes be measured, recorded and reported

Presented By: Andrew Lucas

Date: 16 July 2019

Venue: LSRWUA (Sunlands)

Overview

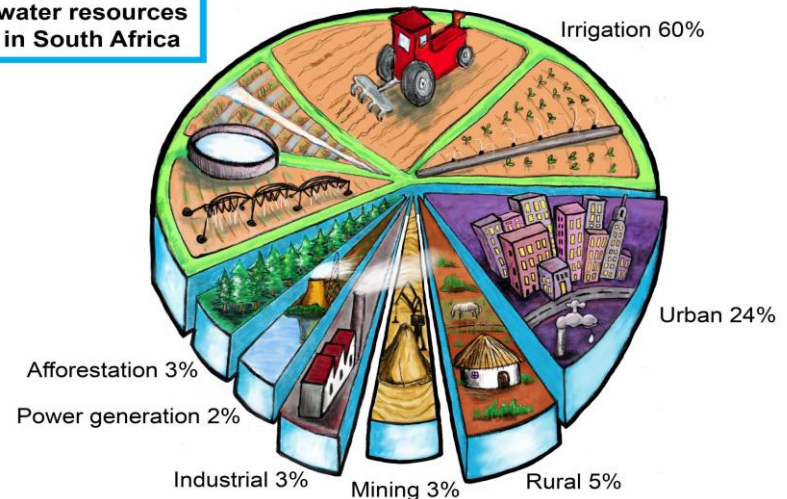
1. *Background*
2. *Legal grounds*
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4. *Application: Regulations*
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7. *Conclusion*

Background:- Irrigation Water use Sector

- 2014/15 WARMS
Data:

- 35 642 registered water users
- 1 440 748 ha of registered irrigation area

How we use our water resources in South Africa



Legal grounds for the regulations

- The Department_ ensure that the nation's water resources are protected, used, developed, conserved, managed and controlled in a sustainable and equitable manner_ basic human needs, redress past and racial discrimination, facilitating social and economic development.....
- S 26(1)(b) of the NWA permits the Minister to make these regulations;
- S 69 to 71 prescribe the process to make the regulations;
- **Schedule 3 (4)(1a) A catchment management agency** may require in writing that a water user -
 - (a) install a recording or monitoring device to monitor storing, abstraction and use of water;*

Regulations:- Requirements

- Prescribe requirements and procedures to be followed;
- Impose measurement requirements and conditions on water use permissible as continuation of an Existing Lawful Use;
- Establish powers, offences and penalties for non-compliant to the regulation;
- Licenses, GA and existing Permits have conditions to measure.

Application: Regulation and Instruction to IB & WUA's

- Regulations were gazetted for implementation on 17 February 2017;
- Responsible authority- instruct water users who are required to measure the water taken for irrigation purposes;
- Instruction to Irrigation Board and Water User Association (05/02/2018)_ installation to be done 1 month from the date of publication;
 - *To instruct their water user members*
- The Regulations apply to all taking of water from a water resource for the purpose of irrigation where the water user is required to measure such water

DEPARTMENT OF WATER AND SANITATION

NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998)

**REGULATIONS REQUIRING THAT THE TAKING OF WATER FOR IRRIGATION
PURPOSES BE MEASURED, RECORDED AND REPORTED**

The Minister of Water and Sanitation has in terms of section 26 of the National Water Act, 1998 (Act No. 36 of 1998) made the regulations in the Schedule hereto.



NP MOKONYANE

MINISTER OF WATER AND SANITATION

DATE: 09.09.16

GOVERNMENT GAZETTE NOTICE

DEPARTMENT OF WATER AND SANITATION

Notice No.

Date

IRRIGATION BOARDS AND WATER USERS ASSOCIATIONS INSTRUCTION TO INSTALL WATER MEASURING DEVICES FOR WATER TAKEN FOR IRRIGATION PURPOSES AND TO MONITOR COMPLIANCE TO REGULATIONS REQUIRING THAT THE TAKING OF WATER FOR IRRIGATION PURPOSES BE MEASURED, RECORDED AND REPORTED

I, Sifiso Mkhize, in my capacity as Acting Director-General of the Department of Water and Sanitation, on reasonable grounds believe that a water shortage may exist on/in most catchments around the country, and that there is poor compliance to provisions of Government Notice No. 131 of 2017 (Regulations requiring that the taking of water for irrigation purposes be measured, recorded and reported), Section 22(2) and Section 63 (1) as well as item 4 of Schedule 3 of the Water Act of 1998 (Act 36 of 1998) in exercising water use, instruct all Irrigation Boards and Water Users Associations in the country to install water measuring devices for water taken for irrigation purposes and to monitor compliance to Government Notice No. 131 of 2017.

Irrigation Boards and Water Users Associations that have water use authorizations to abstract are required to install water measuring devices one month from the date of publication of this notice. The measuring devices must be selected, installed, operated and maintained according to Government Notice 131 of 2017. This requirement supersedes any other requirement to measure that may have issued, including conditions attached to the water use authorization.

Irrigation Boards and Water Users Associations are to instruct their water user members to install water measuring devices in line with Government Notice 131 of 2017. Water users are required to submit water measuring records on a monthly basis directly or through the Water Users Association or Irrigation Board depending on their location, to one of the following e-mails:

Limpopo	metering.limpopo@dws.gov.za
Olifants	metering.olifants@dws.gov.za
Inkomati-Usuthu	metering.inksuthu@dws.gov.za
Vaal	metering.vaal@dws.gov.za
Orange	metering.orange@dws.gov.za
Pongola-Mzimkulu	metering.pongomzi@dws.gov.za
Mzimvubu-Tsitsikama	metering.mziitsi@dws.gov.za
Breede-Gouritz	metering.breego@dws.gov.za
Berg-Olifants	metering.bergoli@dws.gov.za

Water users taking water in different Water Management Areas are to submit measuring records according to the location of their properties where water is taken.

Irrigation Boards and Water Users Associations are to monitor compliance of their water user members to the measuring requirements contained in Government Notice 131 of 2017. Irrigation Boards and Water Users Associations are to provide investigation or compliance reports to the Provincial Heads of the Department of Water and Sanitation in cases of non-compliance in order to initiate enforcement process in terms of Sections 53 and 54 of the National Water Act of 1998 (Act 36 of 1998).


ACTING DIRECTOR-GENERAL
DATE: 05/02/2018

What is in the regulations

- Application-**3**
- Installation, maintain, use a measuring device.....-**4**
- Requirements for installing self-registering measuring devices (a-g)....-**5**
- Keeping, storing records and reporting (a-c)...-**6**
- Directive to comply- *responsible authority may direct a water user to comply with Reg. 5..* -**7**
- Directive to *verify the accuracy of measuring devices*-**8**
- Offences_ *guilty of an offence*-**9**
- Penalties- *liable to a fine or imprisonment for a period not exceeding five years*-**10**

GUIDELINE DOCUMENTS: NOVEMBER 2017

Guidance for Sustainable On-farm and On-scheme Irrigation Water Measurement

I van der Stoep, A Pott, JH Viljoen & AMJ van Vuuren



Department of Water and Sanitation

COMPLIANCE MONITORING

GUIDELINES ON MEASUREMENT

OF THE VOLUMES OF WATER TAKEN FROM
WATER RESOURCES FOR IRRIGATION PURPOSES

RESPONSIBLE AUTHORITY



November 2017

WATER IS LIFE - SANITATION IS DIGNITY



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Guideline_ Cont..

- The regulator prescribes functionality not a **brand**
- Requirements for all measuring types:-
 - Scope of measurement, accuracy of measurement, measuring location, measuring system...
- Measuring flow in full pipes;
 - Off-the shelf devices_ range of expected flow rates, operation maintenance...
- Measuring flow in open channel or partially full pipe;
 - Designed, constructed and rated structures_ channel gradient, shape and construction...
- Data management
 - Measuring, record keeping and submission
- Accuracy of the devices
 - Verification of the accuracy of the measuring device

Conclusion


Regulations, Instruction to IB and WUA's, reporting format and guidelines documents are available on:

<http://ws.dwa.gov.za/ncims/Documents.aspx>.

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Ndo livhuwa
Aa!
Thank you