

CLASSIFICATION OF SIGNIFICANT WATER RESOURCES IN THE MVOTI TO UMZIMKULU WATER MANAGEMENT AREA

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PURPOSE OF PRESENTATION

To provide feedback on the progress of the DWS study on the Classification of Water Resources, Determination of the Reserve and Resource Quality Objectives (RQOs) in the Mvoti to Umzimkulu catchments.

STUDY PROCESS

In accordance with the classification, Reserve and RQOs guidelines

1

Division of the Management Units (IUAs & RUs) & describing the Status Quo

Divided catchment into management units (IUAs) based on socio-economic/ land use characteristics/ water resources and defined Resource Units (RUs)

Data assessed Status quo understood

Catchment vision established

Link value and condition of water

Assess the contribution of using water resources

resources

Understand
the importance
and value of
water in order
to assess the
implications
and
consequences
of protecting
water
resources

3

Ecological requirements of water resources understood and quantified

Determine how much water does the ecology need for the protection of water resources

How much water does the ecology require for different protection levels

4

Identification and evaluation of scenarios

Scenarios are different options for protection within each catchment

Evaluated against flow, water quality and socio-economics

Determine the minimum level of protection

5

Recommende d Management classes & RQOs

Setting requirements to satisfy the ecology

Setting
requirements
which the
different users
require from
water
resources

Gazetting

6

To gazette Classes, Reserve and RQOs

Stakeholder engagement

We are here

We are here

DRAFT WATER RESOURCE CLASSES FOR THE MVOTI CATCHMENT

IUA	River reach	Scenarios and Proposed Water Resource Class		
		PES	REC	42 (Recommended Scenario)
U4-1	Mvoti Upper reaches	=	11	Ш
U4-2	Mvoti Middle Reaches	н	I	Ш
U4-3	Mvoti Lower Reaches	=	I	II

Updated water demands; development demands & return flows; meeting the REC (low flows); Mvoti River Development Project; Imvutshane Dam

DRAFT WATER RESOURCE CLASSES FOR THE MKOMAZI CATCHMENT

IUA	River reach	Scenarios and Proposed Water Resource Class		
IUA		PES	REC	21 (Recommended Scenario)
U1-1	Mkomazi Mountain Zone	-	I	I
U1-2	Middle Mkomazi	I	11	II
U1-3	Mkomazi Gorge	П	I	II
U1-4	Lower Mkomazi	=	11	II

2040 development demands; meeting the REC (total flows); Smithfield Dam, Ngwadini

WHERE TO FROM HERE

- Recommending Water Resource Classes
- Consolidating water quality concerns from stakeholders in order to set appropriate Resource Quality Objectives (RQOs)
- Consequences of Waste Water disposal Scenarios on estuaries
- Estuary RQOs determination
- Next PSC meeting: 24 March 2015
- **□** Estuaries Technical Working Group meeting: 18 May 2015