

## List of supporting studies

Identified previous and current studies that could be aligned to the determination of water resource classes and Resource Quality Objectives (RQOs) for the Berg, Gouritz and Breede River systems are listed below:

### i) Previous studies

#### a) Socio-economics

Source	Contact
Socio-economics data: population data, GDP, etc	StatsSA
Socio-economics information from the developed geodatabase	DWS: Water Services Information & Planning: Mr Stephen Marais
WC Municipal Integrated Development Plans	WC Municipalities

#### b) Ecosystem Services

Source	Contact
Ecosystems services information	WC Provincial Department of Agriculture: Mr Andre Roux
Estuary Management plans	Cape Nature :Mr Pierre de Villiers

#### c) Hydrology

Source	Contact
Water Availability study: Berg, Palmiet, Riviersonderend and upper Breede up to Brandvlei Dam	DWS
Outeniqua Water Resource Assessment: Hydrology for the coastal area between Stillbaai and the Keurbooms River	DWS
Potential water and land for resource poor farmers along the Olifants River in the Oudtshoorn Area in 2006	WC Provincial Department of Agriculture: Mr Andre Roux
WR 2005: Gouritz River	WRC
DWS: HYDSTRA	DWS
City of Cape Town: TMG Aquifer study (includes groundwater, wetlands and diatoms monitoring)	Rodney Bishop
Groundwater information: Gouritz Reserve	AGES
Hydraulic fracturing	Karoo Aquifer Expert Group website.
Hydraulic fracturing: Unconventional Gas Development Symposium	WRC website
Berg WMA Overview of Water Resources Availability and Utilisation	DWS: Directorate National Water Resource Planning
Dryland Salinity: Threatening water resources in the semi-arid Western Cape	The Water Wheel. November/December 2010

Gouritz WMA Overview of Water Resources Availability and Utilisation	DWS: Directorate National Water Resource Planning
Western Cape IWRM Action Plan: Status Quo Report Final Draft	WC Department of Environmental Affairs and Development Planning. 2011
Gouritz Water Management Area: Internal Strategic Perspective	DWS: Directorate National Water Resource Planning
Gouritz WMA Water Resources Situation Assessment	DWS: Directorate National Water Resource Planning
Outeniqua coastal water situation study	DWS: Directorate National Water Resource Planning
Development of Reconciliation strategies for all towns in the southern planning region	DWS: Directorate National Water Resource Planning
Breede WMA Water Resources Situation Assessment	DWS: Directorate National Water Resource Planning
Breede Water Management Area: Internal Strategic Perspective	DWS: Directorate National Water Resource Planning
Breede River Basin Study: Hydrology	DWS: Directorate National Water Resource Planning
The Assessment of Water Availability in the Berg Catchment by means of Water Resource Related Models	DWS: Directorate National Water Resource Planning
Berg Water Management Area: Internal Strategic Perspective	DWS: Directorate National Water Resource Planning

d) Ecology

Source	Contact
SANBI FEPA project maps	SANBI
River Health programme studies	DWS: Regional Office
All Town Reconciliation Strategies	DWS: Head Office & Umvoto
Berg Water Availability Study	Umvoto
PES/EIS updated data	DWS: RQS
Estuaries studies	Steve Lombaard Lara van Niekerk (CSIR) Pierre de Villiers (CapeNature)
Water Quality issues in Berg and Breede catchments	WRC
Berg and Breede River systems studies	Prof Gerhard Basson (University of Stellenbosch)
Eutrophication Model for Breede River	
RBIG project studies (eg Sishen-Saldanha corridor developments )	
Verification and Validation project in the Breede catchment	Breede-Gouritz CMA
Provincial Integrated Water Resource Management plan	WC provincial website
Intermediate Reserve studies for Palmiet River	DWS: Water Ecosystems
Intermediate Reserve studies for Breede River	DWS: Water Ecosystems
Comprehensive Reserve determination for	DWS: Water Ecosystems

<b>Source</b>	<b>Contact</b>
G10A in the Berg catchment	
Intermediate Reserve studies for Outeniqua coastal rivers	DWS: Water Ecosystems
Estuaries monitoring reports (with data up to 2012)	
Groundwater Reserve Determination for Current and Potential Wellfield Development of TMG Aquifers	Water Research Commission (KV 236/10)
The quality of surface and groundwater in the rural western cape with regard to pesticides	Water Research Commission (795/1/00)
Detailed Geohydrological Investigations in the Poesjesnels River Catchment in the Breede River Valley with Special Reference to Mineralization	Water Research Commission (120/1/90)
Projected future runoff of the Breede River under climate change	Water Research Commission
Pre-Feasibility and Feasibility Studies for Augmentation of the Western Cape Water Supply System By Means of Further Surface Water Developments. Report No. 1: Ecological Water Requirement Assessments	DWS: Directorate Options Analysis
Ecological Assessment of the Vlermuiskelderskloof Spruit	Toni Belcher
Breede River Basin Study: Groundwater Reserve Determination	DWS: Directorate National Water Resource Planning
Berg River baseline monitoring programme	Report No. P WMA 19/G10/00/1807

**i) Current studies**

a) Hydrology

<b>Source</b>	<b>Contact</b>
WR 2012:Gouritz river updated to 2010	WRC
City of Cape Town: Cape Flats Aquifer and Newlands Aquifer study	
City of Cape Town springs identification study using hydrocensus	Jullian Conrad (GEOSS) & Winston McKay
Wetland monitoring in the Berg Catchment & part of the Overberg region	CapeNature & Fedwater consulting group

b) Ecology

<b>Source</b>	<b>Contact</b>
Green Cape initiative	Prof Jeff Butler (UCT)
WestCape development study	
Gouritz Reserve Determination study	DWS: RDM
Estuaries monitoring reports (with data up to 2012)	DWS: RQS
Berg River Improvement project	DWS: Regional Office