

CURRENT RESEARCH, DEVELOPMENTS, PROJECTS AND PROGRAMMES FOR WESTERN CAPE REGIONAL OFFICE

Title	Aim	Contact	Role-Players	Time Frames	Comments / Notes
Assessment of water availability in the Berg Water Management Area (WMA 19) by means of water resources related models	Regional assessment of water availability by integrating groundwater and surface water models	I. Thompson (D: NWRP) (thompsoni@dwa.gov.za)	Department Water Affairs (DWA) Directorate: National Water Resource Planning (D: NWRP) (South) in collaboration with Western Cape: Directorate: Water Sector Support, Bellville Regional Office	2005/06 - 2008/09	Results presented in several volumes. Contact I. Thompson for availability
Artificial Recharge Project	Application of artificial recharge on primary aquifer system (pilot on the Langebaan Road Aquifer System)	Dr. E van Wyk (vanwyke2@dwa.gov.za) P. Seward (sewardp@dwa.gov.za)	Department Water Affairs (DWA) Directorate: Hydrological Services in collaboration with Western Cape: Directorate: Water Sector Support, Bellville Regional Office & the Council of Scientific and Industrial Research (CSIR - Stellenbosch)	2007/08 - 2008/09	Project complete – awaiting final report
Table Mountain Group (TMG) Aquifer Feasibility Study and Pilot Project	Feasibility of bulk water supply from TMG	K. Shippey (karen.shippey@shands.co.za) P. Seward (sewardp@dwa.gov.za) M Smart (smartm@dwa.gov.za)	City of Cape Town Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office	2002/03 - ongoing	

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Biogeochemical controls on the plant biodiversity within a salt marsh ecosystem in the West Coast National Park	Groundwater/surface water interactions and impacts at a salt marsh	C. Colvin (ccolvin@csir.co.za) P. Seward (sewardp@dwa.gov.za)	Council of Scientific and Industrial Research (CSIR - Stellenbosch) (funded by the Water Research Commission (WRC))	2006 - 2009	Check WRC for report availability
Optimised monitoring of groundwater - surface water - atmospheric parameters for enhanced decision making at a local scale	Development of integrated monitoring technologies and frameworks at local scales	N Jovanovic (njovanovic@uwc.ac.za) Dr. E van Wyk (vanwyke2@dwa.gov.za)	CSIR (Stellenbosch) (funded by the Water Research Commission (WRC))	2008 - 2011	
Greater Cederberg Biodiversity Corridor	To establish linkage of biodiversity from the coast to the mountains in the Western Cape	J. Burger B. Zenzile (zenzilb@dwa.gov.za)	Cape Nature in collaboration with Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office	2009/10 -2009/11	Ongoing
Raising of the Clanwilliam Dam	For the additional supply of water North of the Clanwilliam Dam	F. Van Heerden B. Zenzile (zenzilb@dwa.gov.za)	Department Water Affairs (DWA) Western Cape: Bellville Regional Office in collaboration with Western Cape: Clanwilliam Dam Office and Ninham Shand Consulting Engineers	2007/11 - Ongoing	Ongoing - Awaiting for Minister's approval for the project to proceed

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Sandveld Water Management Plan	To consolidate all studies done in the Sandveld after 1998	<p>J. Conrad</p> <p>B. Zenzile (zenzilb@dwa.gov.za)</p>	<p>Department Water Affairs (DWA)</p> <p>Western Cape: Directorate: Water Sector Support, Bellville Regional Office in collaboration with</p> <p>Stakeholders and Geohydrological and Spatial Solutions (GEOSS) Consultants</p>	2007/08 -2010/11	Phase II to continue after funds sourced by Acting Catchment Manager Olifants/Doorn
Integrated Water Resource Management project (IWRM)	Capacity building of the emerging farmers within Western Cape Districted Municipalities	<p>B. Zenzile (zenzilb@dwa.gov.za)</p> <p>Danida</p>	<p>Department Water Affairs (DWA)</p> <p>Directorate: Water Sector Support, Bellville Regional Office</p> <p>(funded by Danish International Development Agency (Danida))</p>	2007/08 -	Project not finished due to budget constraints
Reserve Determination for selected Surface Water, Groundwater, Estuaries and Wetlands in the Outeniqua catchment	Provide guidance on possible future operation of the catchments.	<p>N Motebe (CD:DM) (moteben@dwa.gov.za)</p> <p>M Smart (smartm@dwa.gov.za)</p>	<p>Department Water Affairs (DWA)</p> <p>Chief Directorate: Resource Directed Measures (CD:DM) in collaboration with</p> <p>Directorate: Water Sector Support, Bellville Regional Office</p>	2008 – 2011	

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All Town Reconciliation Study – Southern region	Provide water supply strategies for all towns	<p>I. Thompson (D:NWRP) thompsoni@dwa.gov.za)</p> <p>F. Fourie (Sub-Dir: IHP) fourief@dwa.gov.za)</p> <p>M Smart smartm@dwa.gov.za)</p> <p>R. Hay</p>	<p>Department Water Affairs (DWA)</p> <p>Directorate: National Water Resource Planning (D:NWRP) (South), Sub-Dir: Integrated Hydrological Planning (Sub-Dir: IHP) in collaboration with</p> <p>Western Cape: Directorate: Water Sector Support, Bellville Regional Office and</p> <p>Consultants: Umvoto Africa; Africon</p>	2008 - Current	
Roll out of the Artificial Recharge Strategy (ROARS)	Develop pilot Artificial Recharge test sites in Region	<p>F. Fourie (Sub-Dir: IHP) fourief@dwa.gov.za)</p> <p>M Smart smartm@dwa.gov.za)</p> <p>R Murray</p>	<p>Department Water Affairs (DWA)</p> <p>Directorate: National Water Resource Planning (D:NWRP) Sub-Dir: Integrated Hydrological Planning (Sub-Dir: IHP) in collaboration with</p> <p>Western Cape: Directorate: Water Sector Support, Bellville Regional Office and</p> <p>Consultants: Groundwater Africa</p>	2009-2011	

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Drought Operating Rules for Stand Alone Dams and Schemes	Management of drought in Rural / Municipal setups.	Frans Wiegmans (Golder and Associates) FWiegmans@golder.co.za M Smart (Breede & Gouritz) smartm@dwa.gov.za P Seward (Berg & Olifants/ Doorn) Sewardp@dwa.gov.za	Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office in collaboration with Golder and Associates	2011 - urrent	
Preventing production borehole clogging by in situ iron removal in South African aquifer systems	Management of iron bio-fouling in production boreholes	Kate Robey (Council for Geoscience) M Smart smartm@dwa.gov.za	Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office in collaboration with Water Research Commission (WRC), Council for Geoscience	2011 - Current	
Development and application of global navigational satellite systems (GNSS) methodology for groundwater resource assessment.	Assessment of the value of GNSS in TMG aquifer resource assessment.	C Hartnady (Umvoto) chris@umvoto.com Dr. S. Adams (WRC) shaficka@wrc.org.za +27 12 3309071 M Smart smartm@dwa.gov.za	Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office in collaboration with Water Research Commission (WRC), Umvoto, and Overstrand Municipality	2009 - Current	

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Socioeconomic Value of Groundwater in the TMG aquifer	Socioeconomic value of TMG Groundwater through various use and non-use activities.	M Smart smartm@dwa.gov.za	Department Water Affairs (DWA) Western Cape: Directorate: Water Sector Support, Bellville Regional Office in collaboration with Water Research Commission (WRC) and University of Western Cape (UWC)	2010 - Current	Ongoing