

## CURRENT RESEARCH, DEVELOPMENTS, PROJECTS AND PROGRAMMES FOR KWAZULU-NATAL REGIONAL OFFICE

Title	Aim	Contact	Role-Players	Time Frames	Comments / Notes
KZN Regional Groundwater level monitoring	To monitor trends in groundwater level fluctuations of the regional aquifers to assist in regional groundwater management, protection and planning	<p>A Masefield <a href="mailto:masefielda@dwa.gov.za">masefielda@dwa.gov.za</a></p> <p>P Msimango <a href="mailto:Msimangop@dwa.gov.za">Msimangop@dwa.gov.za</a></p>	Department Water Affairs (DWA) – KwaZulu-Natal Regional Office	Ongoing	<ul style="list-style-type: none"> <li>- Extension of the monitoring network is in progress</li> <li>- Installation of loggers into all monitoring boreholes is in progress</li> </ul>
National Groundwater and rainfall Monitoring Programme	Quantification of Groundwater recharge figures using hydro-chemistry tracers in rainwater and groundwater	<p>Dr. E van Wyk <a href="mailto:vanwyke2@dwa.gov.za">vanwyke2@dwa.gov.za</a></p> <p>A Masefield</p> <p>P Msimango</p>	Department Water (DWA)  (Directorate: Hydrological Services and KwaZulu-Natal Regional Office)	Ongoing	
KZN <u>Groundwater Resource Information Project</u> (GRIP)	Collation and analysis of all available groundwater data to assist in regional groundwater management and planning	<p>A Masefield <a href="mailto:masefielda@dwa.gov.za">masefielda@dwa.gov.za</a></p> <p>N Mirazi <a href="mailto:mirazin@dwa.gov.za">mirazin@dwa.gov.za</a></p>	Department Water Affairs (DWA) –  KwaZulu-Natal Regional Office and term contract consultants	Temporarily on hold	<ul style="list-style-type: none"> <li>- More 24 000 geosites captured.</li> <li>- Preliminary assessments being conducted on data and preliminary maps available for groundwater quality.</li> </ul>

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Monitoring and rehabilitation of defunct coal mines – Sandspruit Catchment	Determining the impact of approximately 20 defunct coal mines on groundwater quality and possible rehabilitation measures to be implemented	<p>A Masefield <a href="mailto:masefielda@dwa.gov.za">masefielda@dwa.gov.za</a></p> <p>P Msimango <a href="mailto:Msimangop@dwa.gov.za">Msimangop@dwa.gov.za</a></p> <p>R Schwab <a href="mailto:schwabr@dwa.gov.za">schwabr@dwa.gov.za</a></p>	<p>Department Water (DWA) – KwaZulu-Natal Regional Office in collaboration with DWA, National Office, Directorate: Water Resource Planning Systems (WRPS)</p>	Ongoing	<ul style="list-style-type: none"> <li>- Geohydrological assessment and drilling of monitoring boreholes done at all sites</li> <li>- Assessment of surface water RQOs completed</li> <li>- Groundwater resource monitoring being carried out on a biannual basis</li> <li>- Assessment of the efficacy of the groundwater monitoring points to commence</li> </ul>
Letsema Project	To address backlog in licensing (groundwater licenses as well as all others)	<p>A Masefield <a href="mailto:masefielda@dwa.gov.za">masefielda@dwa.gov.za</a></p> <p>N Mirazi <a href="mailto:mirazin@dwa.gov.za">mirazin@dwa.gov.za</a></p>	<p>Department Water (DWA) - Chief Directorate: Water Use and Authorisation (CD:WUA) in collaboration with DWA KwaZulu-Natal Regional Office</p>	Ongoing	All groundwater files sent to National Office, Pretoria for assessments.
Groundwater Reserve Project for Umvoti to Umzimkhulu	To quantify the available groundwater reserves and identify potential problems in terms of quantity and quality of groundwater	<p>N Motebe (CD:RDM) <a href="mailto:moteben@dwa.gov.za">moteben@dwa.gov.za</a></p> <p>A Masefield <a href="mailto:masefielda@dwa.gov.za">masefielda@dwa.gov.za</a></p> <p>P Msimango <a href="mailto:Msimangop@dwa.gov.za">Msimangop@dwa.gov.za</a></p>	<p>Department Water (DWA) Chief Directorate: Resource Directed Measures (CD:RDM) in collaboration with DWA KwaZulu-Natal Regional Office</p>	18 months	<ul style="list-style-type: none"> <li>- PSP to finalise inception report</li> <li>- Commencement of data collection and collation</li> </ul>

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WMS Data Capture	Capturing of backlogged groundwater quality data on Water Management System (WMS)	N Mirazi <a href="mailto:mirazin@dwa.gov.za">mirazin@dwa.gov.za</a>	Department Water Affairs (DWA) – KwaZulu-Natal Regional Office and term contract consultants		Project concluded