

CURRENT RESEARCH, DEVELOPMENTS, PROJECTS AND PROGRAMMES FOR LIMPOPO REGIONAL OFFICE

Title	Aim	Contact	Role-Players	Time Frames	Comments / Notes
<u>Groundwater Resource Information Project (GRIP)</u>	To systematically gather, verify and used data to improve management and development of rural groundwater resources in Limpopo	WH du Toit	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information and appointed GRIP consultants	2003/04- Continuous	Project is continuing but does depend on availability of funds at the beginning of each new financial year. GRIP temporarily stopped due to the delay caused by the approval of the Term tenders for drilling, testing and consulting
Millbank Groundwater assessment project	Characterisation of groundwater resources in the Millbank area	T Maluleke	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Draft Report available	Draft Report complete during 2010.
Regional groundwater level & water quality network development and implementation	A complete coverage of water level and water quality monitoring stations in Limpopo	H Verster S Mutheiwana	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Ongoing	No change
Groundwater occurrence in the Hout River Gneiss	Characterisation of groundwater resources in the Goudplaats Gneiss	T Maluleke RE Whitehead	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Jul/2008 – Mar/2011	Draft report completed and under review

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Matlala Recharge Project	Monitoring the response of water level to lateral influx and vertical infiltration from rainfall in 25 holes drilled in a 1 km grid	WH du Toit H Verster	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Ongoing	No change
Explanation brochure for the 1:500 000 scale Phalaborwa Hydrogeological map	To compile an explanation brochure for the published Phalaborwa Hydrogeological map	W.H. du Toit	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Mar/2006 – Jun/2010	Final draft Brochure completed. To be evaluated by Brochure committee
Explanation brochure for the 1:500 000 scale Polokwane Hydrogeological map	To compile an explanation brochure for the published Polokwane Hydrogeological map	W.H. du Toit	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Mar/2006-Jun/2010	Final draft Brochure completed. To be evaluated by Brochure committee
Explanation brochure for the 1:500 000 scale Musina Hydrogeological map	To compile an explanation brochure for the published Musina Hydrogeological map	W.H. du Toit	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Apr/2010 – Mar/2011	Final draft Brochure completed. To be evaluated by Brochure committee
Explanation brochure for the 1:500 000 scale Nelspruit Hydrogeological map	To compile an explanation brochure for the published Nelspruit Hydrogeological map	W.H. du Toit	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Jul/2010 – Mar/2012	Basic framework completed

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Groundwater resource assessment of the Melinda fault region	Investigation of the Melinda Fault as a regional source	W.H. du Toit T Maluleke RE Whitehead	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Jul/2007 – Mar/?	Report covering small portion of the fault completed. Next phase of the project put on hold till completion of Goudplaats project
Groundwater resource assessment of the Klein Tshipese fault	Investigation of the Klein Tshipese Fault as a regional source	P Lubbe	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information	Jan/2006 – Aug/2011	Draft report almost completed
Geohydrological characterisation of the crystalline rocks underlying the Limpopo and Levubu/Letaba WMAs	Occurrence and management of groundwater resources in crystalline rock formation in Southern Africa	WH du Toit T Maluleke WRC GRIP team	Department of Water Affairs Water Research Commission (WRC) GRIP team (DWAF & Consultants) Reference Group (GRIP Steering Committee)	2007/08 - 2009/10	Project basically completed. WRC report not published yet
Nwamitwa Groundwater Study	Assessment of groundwater resources: Pilot study based on GRIP data	WH du Toit GRIP Team M Holland (PTA University)	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information and GRIP appointed team WRC	Apr/2009 – Aug/2010	Report completed
Muyexe Groundwater Supply	Assessment of available groundwater and compilation of groundwater plan	WH du Toit GRIP Team M Holland (PTA University)	Department Water Affairs (DWA) Limpopo Region Sub-Directorate: Water Resource Information and GRIP appointed team WRC	Aug/2009 – Oct/2009	Project completed. Draft report available from region.

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Groundwater monitoring network in the Kruger National Park	<ul style="list-style-type: none"> ▪ To determine seasonal and long term trends in comparison with rainfall; ▪ contribution of groundwater to base flow during dry winter periods; ▪ comparison of water level behaviour in the different surface water catchment areas or lithology (geohydrological units) and subsequently to optimize and determine the most effective monitoring station density 	<p>WH du Toit</p> <p>H Verster</p> <p>I Smit (Sanparks)</p>	<p>Department Water Affairs (DWA)</p> <p>Limpopo Region Sub-Directorate: Water Resource Information</p> <p>South African National Parks: Kruger Park</p>	<p>Jul/2007 – Jul/2012</p>	<p>No change.</p> <p>Progress reports available on request.</p> <p>Network being extended with about 10 boreholes</p>
Groundwater potential of the Bosbokpoort fault	<p>To determine the characteristics and groundwater potential for domestic water supply in the Vhembe District</p>	<p>P Lubbe</p>	<p>Department of Water Affairs</p> <p>Limpopo Region Sub-Directorate: Water Resource Information</p> <p>Vhembe District Municipality</p>	<p>Jan/2011 – Mar/2012</p>	<p>Project revived after it was on the back burner due to other priorities</p>

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Identification of areas suitable for artificial recharge	To identify sites with suitable hydraulic characteristics and other requirements for consideration of artificial recharge	T Maluleke	Department of Water Affairs Limpopo Region Sub-Directorate: Water Resource Information	Apr/2011 – Sep/2012	In the planning process
Investigation into the declining of water levels in the Tswera area	To identify the reasons for the continuous declining of water levels in the area	H Verster	Department of Water Affairs Limpopo Region Sub-Directorate: Water Resource Information	Feb/2011 – Mar/2012	Declining water levels in the area is a concern
Investigation of water levels in the Buysdorp area	To identify the reasons for the continuous declining of water levels in the area	H Verster	Department of Water Affairs Limpopo Region Sub-Directorate: Water Resource Information	Feb/2011 – Sep/2012	Declining water levels in the area is a concern