

## CURRENT RESEARCH, DEVELOPMENTS, PROJECTS AND PROGRAMMES FOR NORTHERN CAPE REGIONAL OFFICE

Title	Aim	Contact	Role-Players	Time Frames	Comments / Notes
Groundwater use application backlog	Eradicate the water use license backlog of 100 applications	J. Makhetha	Department Water Affairs (DWA) Northern Cape Regional Office	2009 - 2011	Progress with General authorizations.  License applicants not complying with BBBEE and EIA requirements.  Licenses withdrawn due to insufficient information
Water provision for the KAT site Carnarvon	Boreholes to supply in water needs	J. Makhetha D. Hohne	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2012	Project completed with sufficient water for construction and operation.
Groundwater exploration and Development in Namaqualand	Explore for and develop groundwater at 20 sites	D. Potgieter D Hohne	Department Water Affairs (DWA)  (Directorate: Hydrological Services and Regional Offices) Consultant: CGS	2008 – 2011	A number of holes proximate to communities with suitable yields and quality. Need to pump test boreholes.
Groundwater exploration and Development in Langeberge	Explore for and develop groundwater at 20 sites	T. Zikhali	Department Water Affairs (DWA)  (Directorate: Hydrological Services and Regional Offices) Consultant: CGS	2008 - 2011	Project in progress with 13 of 20 holes drilled.
Groundwater – surface water interaction in the Northern Cape	Investigate interaction at non perennial and perennial rivers through the region	J. Makhetha	Department Water Affairs (DWA) Northern Cape Regional Office	2006 -2011	Project in progress. 11 of 15 river section prepared and observation in progress.

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Groundwater exploration and Development in Karoo	Explore for and develop groundwater at 30 sites	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2011	Project in progress, Britstown completed, additional requests from Victoria West, Loxton, Strydenburg, Geophysical sitting in progress
Artificial recharge from waste water in De Aar	Investigate use of waste water recharge to aquifers	L. Baloyi	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  DWA National Office – Sub-Directorate: Integrated Hydrological Planning	2009 - 2012	Feasibility investigations by water resource planning
Regional groundwater level observation network for Northern Cape	Observe groundwater level trends at regional and aquifer level to inform water managers and users on status	J. Makhetha	Department Water Affairs (DWA) Northern Cape Regional Office	Long term	Timely observations with data capturing and trend analysis when needed.
Influence of vegetation on groundwater proximate to Smartt Syndicate dam	Observe the influence of Prosopis sp. on groundwater	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2012	Section sitting completed. Drilling to commence.
Observation of groundwater in Postmasburg area	Manage the impact of water use and specifically mine dewatering	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Observation networks in place. Trend analysis when needed and reporting to Tshiping water user association
Observation of groundwater in Sishen/ Kathu area	Manage the impact of water use and specifically mine dewatering on groundwater	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Observation networks in place. Trend analysis when needed and reporting to Tshiping water user association

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Observation of groundwater in Tosca Molopo area	Manage the impact of water use and specifically irrigation on groundwater	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Observation networks in place. Trend analysis when needed and reporting to Tosca Molopo water user association
Observation of groundwater in Louwna Coetzersdam area	Manage the impact of water use and specifically irrigation on groundwater	V. Tshabalala	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Observation networks in place. Trend analysis when needed and reporting to Louwna water user association
Observation of groundwater in Tswaing area	Manage the impact of water use and specifically irrigation on groundwater	T. Zikali	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Observation networks in place. Trend analysis when needed and reporting to Tswaing water user association
Investigate possible pollution in Sannieshof	Manage the impact of possible pollution of drinking water	L. Balyoi T. Zikali	Department Water Affairs (DWA) Northern Cape Regional Office	2008 - 2015	Initial water sampling indicate elevated nitrates, no indication of faecal pollution
Hydrocensus Kgalagadi Transfrontier Park	Influence of irrigation in Namibia on water Quality in SA	D Potgieter	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  SAN Parks	2010 - 2011	Wait for results in from new water samples
Hot Springs monitoring	Observe influence of earth quakes on water quality and yields	D Hohne	Department Water Affairs (DWA) Northern Cape Regional Office	2011 - 2012	New project

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Observation of Groundwater in Western Karoo	Manage the impact of water use and specifically municipalities on groundwater	D Hohne	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  local Government	2010 - 2015	Observation network in place, current situation stable
Observation of Groundwater in Namaqualand	Manage the impact of water use and specifically municipalities on groundwater	D Potgieter	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  local Government	2010 - 2015	Observation network in place, water levels low to critical
Hydrocensus of farms in Siyanda District for PDI farmers	Provide DEp Of Agriculture info on production boreholes on new bought farms	D Potgieter D Hohne	Department Water Affairs (DWA) Northern Cape Regional Office in collaboration with  Provincial Department of Agriculture	March 2011	New project