



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA



NATIONAL DEVELOPMENT PLAN
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HIGH CONFIDENCE GROUNDWATER RESERVE DETERMINATION STUDY IN THE BERG CATCHMENT

PROJECT STATUS — PROJECT STEERING COMMITTEE No. 2

Presented by: Philani Khoza

Date: 22 November 2022



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Presentation Outline

- Background
- Study progress and milestones achieved
- Capacity building programme



Background

- 24-months project: *February 2022 to February 2024.*
- The primary objective of this study is *to determine a high confidence groundwater Reserve requirements (quantity and quality) to satisfy the basic human needs and to protect aquatic ecosystems for all priority water resources within the Berg catchment.*

Study Progress and Milestones Achieved

DELIVERABLE	DUE DATE
4.3.1. Inception report	April 2022
4.3.2 Gap analysis report	June 2022
4.3.3 Delineation of water resource units report	August 2022
4.3.4 Ecological reference conditions report	October 2022
4.3.5 BHN and EWR requirement report	February 2023
4.3.6 Operational Scenarios and its Socio-Economic and Ecological consequences report	May 2023
4.3.7 Evaluate Scenarios with Stakeholders	August 2023
4.3.8 Monitoring Programme report	November 2023
4.3.9 Gazette and Implement Reserve	February 2024

Capacity Building Programme

Task	Description	Period
2.1	Gap Analysis and Water Resource Model Inventory: data collection, review, and analysis	June 2022
3.1	GRU delineation	August 2022
3.4	<p>Water Resource Modelling: 1 week groundwater modelling.</p> <p><u>Day 1</u> - Field trip to CFA and TMG – all DWS staff</p> <p><u>Day 2</u> - Introduction to Groundwater Modelling and Data Collation – in person training</p> <p><u>Day 3</u> - Conceptualization and Groundwater Model Set Up – in person training</p> <p><u>Day 4</u> - Model set up and Model Calibration – in person training</p> <p><u>Day 5</u> - Scenario Analysis and Results – in person training</p>	23 – 27 January 2023
3.8	Reserve Determination: Attend Final Reserve Determination stakeholder engagement workshop to observe how it is determined and update the reserve reporting based on stakeholder input.	January 2024

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Contact details

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- Study deliverables accessible at:
<https://www.dws.gov.za/rdm/currentstudies/default.aspx>