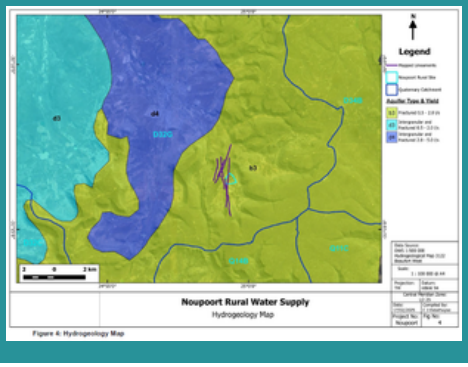
Noupoort Communal Farmers Boreholes

Noupoort, Northern Cape, South Africa



Project Details

Client:	Scaled Impact
Project Type:	Feasibility Study
Initiated:	Jan 2025
Completed:	Feb 2025
Project Value:	ZAR 430 000

Project Description

The study presents a feasibility assessment to improve water security for the Noupoort Farmers Association communal farm area through the solarisation of two boreholes and the implementation of a remote data monitoring system. The project included a hydrocensus, exploration drilling, yield testing, water quality analysis, and technical design to determine the most sustainable solution. The two boreholes have a combined sustainable yield of 95 m^3/day. The proposed solution recommends installing solar-powered pumping systems, storage reservoirs, pipelines, and real-time monitoring technology to create a decentralised and resilient water supply. Overall, the project aims to provide reliable and sustainable water access for communal farmers, strengthen climate-resilient infrastructure, reduce reliance on grid electricity, and support local economic development and livestock farming in the Noupoort area.

Project Impact

95 m^3/d
Anticipated Water Supply

6.5 kWp
Energy Consumed

6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
17 PARTNERSHIPS FOR THE GOALS