

Aquifer Testing



Aquifer Testing of boreholes up to 250m deep. Pump yields up to 350m³/hr. Submersible & Positive Displacement Pumps.

Geothermal Drilling & Loop Installation

Derek Whitfield MD and Hydrogeologist, is an accredited Geothermal Driller and Loop Installer with the International Ground Source Heat Pump Association (www.igshpa.com). Derek Whitfield worked with Durbin Geothermal on the Lakeland Community College project and with Geo Energy Systems on the Valley River School project in Utah to gain hands on experience. EDRS has undertaken the TCT testing of four sites in S.A. and the installation of small office loop field and the geothermal project at Hotel Verde, CT.

Vacuum Excavation

Locate buried utilities (pipelines, cables, etc...) in a safe and efficient manner. This technology allows for the safe excavation of all buried utilities in a fraction of the time it takes one by hand.



Borehole Rehabilitation / De-commissioning

Rehabilitation and rejuvenation of boreholes involving high pressure air, water and chemicals. Wells that have reduced yields over time commonly have chemical and/or biological encrustation retarding the ingress of water into the well. EDRS has a number of techniques to rehabilitate such problem wells.

Client Base

EDRS' clients range from multinational Mining Houses to individuals. Included in our client list :

Mining & Exploration: South 32; Areva; Anglo American; Harmony; Exxaro, De Beers (Namdeb) ; Reptile Uranium., Anvil Mining

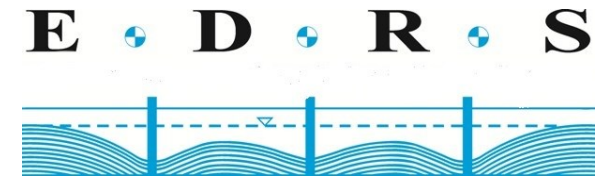
Water Supply: Aurecon; Western Cape Provincial Government; Nelson Mandela Bay Municipality

Environmental & dewatering: Golder, SRKm M & O; Jones & Wagener; Knight Piezold; CSIR; BP; Engen ; Shell; Sasol; Chevron, SAPREF

Geotechnical: Murray & Roberts; Steffanut Stocks; Jones & Wagener

Geothermal: MEP Engineers, Spoomaker & Partners; Northern Cape Local Government; Steffanut Stocks

PHYSICAL ADDRESS: PLOT 59,
ELANDSRDIFT KRUGERSDORP
POSTAL ADDRESS:
POSTNET SUITE # 659, PRIVATE BAG
X153,
PHONE: +27 10 596 1000
Cell: +27 82 456 8466
E-mail: derek@edrs.co.za



Drilling & Pumping Contractors



Water, Minerals, Geotechnical & Environmental Drilling Services

Leaders in the Field



When Safety, Reliability & Performance Count— EDRS the First Choice Drilling Contractor

EDRS was established in 1996 as a specialist drilling contracting company. The company is currently based in Elandsdrift. It is managed by **geologists and hydrogeologists** and that provides a unique blend of scientific understanding, and technical expertise. Our crews are well trained and our equipment is of the highest quality. Back up services include a well fitted out workshop where all our drilling consumables are manufactured. EDRS undertakes the following drilling and pumping services :-



- **RC Exploration Drilling – 400m depths!**
- **RC Grade Control**
- **Sonic Drilling SDC-550 Rig– Unconsolidated**
- **Geothermal Drilling & Loop installations IGPSHA accredited**
- **Mine De-watering Drilling – large diameter boreholes**
- **Bulk Mine Water Supply Drilling**
- **Aquifer Test Pumping – 10m³/hr - 450m³/hr**
- **RC Air Boosters – 1800CFM/500PSI**
- **Environmental Drilling & Contracting Services**
- **Dump Drilling**
- **Auger Drilling**
- **Vacuum Excavations**
- **Borehole rehabilitation & de-commissioning**

EDRS has successfully completed projects in the following countries :- Central African Republic, D.R.C., Zambia, Botswana, Zimbabwe, Namibia, South Africa, Mozambique & Madagascar.

Mineral Exploration - RC Drilling



EDRS currently has a fleet of seven dedicated RC Rig outfits. The RC rigs are a combination of truck mounted (4 x 4 and 6 x 6) and track mounted rigs. Compressors and boosters are truck and trailer mounted. Drilling depths vary from 10m to 400m (depending on water intersections). All types of cyclones and splitters available.

Bulk Water Supply - Municipal

Our Prakla Drilling Rig enabled EDRS to undertake bulk water supply drilling for municipalities including Port Elizabeth and CT. The Prakla RB50 has a drilling depth capability of 1,200M and a drilling diameter capability of up to 300mm. This rig is perfect for large diameter well drilling.



Sonic Drilling

EDRS has imported a SDC550 Sonic Rig from USA for the sampling and drilling of unconsolidated material. The Sonic Drill has an outstanding ability to provide continuous and relatively undisturbed core samples through any geological formation. Holes are drilled and cored by rotating and vibrating the rod, core barrel and casing at resonant sonic frequencies. Ideal for investigating heavy metal, organic and other types of contamination.



Mine De-watering

EDRS has successfully completed several mine de-watering & bulk water supply drilling projects in S. Africa, Madagascar, Zambia, DRC & CAR. De-watering boreholes of between 10" – 20" are commonly drilled to depths of between 100m – 300m. Drilling techniques include Mud Rotary, Symmetrix, ODEX, DTH and Reverse Flood Rotary.

