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ABOUT US

"With our many years of experience and prodigious technology and equipment we are the most experienced agricultural drainage company in Southern Africa."

With our ample knowledge of big scale enterprises in agriculture and industry, we at Agri Drainage are able to provide a turnkey solution to all your particular drainage and irrigation needs.

We work in conjunction with the client and will be consulted on the feasibility and profitability of all scale agricultural projects.

We also handle projects in their entirety, from the first thought to the final staff training; ideal for those who want to fund viable projects for agricultural products without necessarily having the skills or knowledge to do so.
WHY CHOOSE US?

Experience
With over 1.6 million meters of Drainage installed and our history of involvement in crop farming, we have gained experience that enables us in bringing successful yields to our clients.

Quality Assured Solutions
Walking the extra mile and really getting involved with each client and their needs bring forth great quality service. We want to change your business forever. Be it in the way you farm, develop, plan or grow.

Newest Technology
We use nothing less than state of the art equipment and technologies to ensure that the latest trends, techniques and strategies are implemented to deliver the best possible results.
VISION

To grow our organization through the use of advanced technology, continuous research of industry changes and the varying needs of our clientele.

We will continuously diversify our skills to offer our clients more effective and efficient solutions.

Provide accurate, transparent and detailed advice to every client. Focussing on specific needs and situations to empower them to operate with more ease and greater productivity.

To find the most effective and cost-efficient way to do the job.

We practice a holistic approach when delivering services and products while concentrating on excellent client relations and quality controlled outcomes.

"Individual commitment to a group effort--that is what makes a team work, a company work, a society work, a civilization work..."

MISSION

[Image of people in red uniforms]
If there is excess water in your soil that causes anaerobic conditions which hampers root development, or you have a build-up of excess salts in your soil, you need a subsurface drainage system that can manage the water.

When the origin of your water management problem lies below the surface we have imported the custom-built, top of the range Tile Plow, to counter the issue.

This seamless process where drainage pipes are installed at specific slopes, grades and depths according to the detailed, customized plan helps you manage water table levels and salinity and optimise the use of rainfall.

Furthermore, this process cuts costs with up to 80% in comparison with conventional methods and saves time as we can install up to 7000m / 28ha per day.

**HOW CAN IT HELP ME?**

**Reclaim waterlogged areas**
Use all your land to its maximum potential.

**Leach away unwanted Salts**
Improve your soil’s quality by draining away excessive salts.

**Optimise the use of rainfall**
Make sure extra water is saved and that water is going where it’s most needed.

**A complete solution for water and soil management**
A system that takes care of everything and guarantees a secure future.

**Defence against droughts**
Improving drought resistance by stabilizing the water table and saving water.

"Agri Drainage has installed over 1.6 million meters of subsurface drainage!"
Extensive Experience
In water management

State of the Art Equipment
Including the newest design of 'Tile Plows'

The Latest in Drainage Design Technology
Using the Trimble Water Management software and RTK GPS control system that works at an accuracy of less than 2cm.

A Holistic Approach
Designing a customized solution with the end goal in mind.

Higher Yields and Improved Crop Quality
Improving drought resistance by stabilizing the water table and saving water.

Cost and Time Efficient
Cutting costs with 80% comparing to conventional methods as well as Installing up to 7000m/ 28ha per day with one machine.

WHY DOES IT WORK?

PLANNING AND DESIGN

- Tests for Subsurface Drainage Ksat And Soil Profiling
- Subsurface Design
- Details from software
- Design of mains, sub-mains and laterals
There is no simplified answer to drainage and each field needs to be properly surveyed to ensure that the drainage plan will be case specific.

Therefore a topographical GPS survey with an accuracy of better than 2cm is the first step in the drainage process. This includes Saturated Hydraulic Conductivity which helps determine water flow.

Furthermore, we take into account factors such as plant directions and water runoff.

On a larger scale we use Lidar Aerial Surveys to enhance the efficiency and accuracy of surveying.

Together with this, soil profiling and sampling supply the AD team with sufficient data to formulate the perfect, customized plan.

**Problem Areas**
To determine higher potential areas to be developed first.

**Prioritise**
See what needs the most attention by doing a complete survey.

**Soil Quality**
See what needs the most attention by doing a complete survey.

"With aerial surveying the possibilities are endless and the advantages astronomical."
TYPES OF SURVEYING

Satellite

Initial low cost, low-resolution info for pre-identification of best areas for development.

Both airborne hyperspectral and satellite multispectral sensors have the ability to monitor crop health during a growing season. Health is affected by pollution, drought, pests, and can be detected in the infrared bands long before it is apparent to the naked eye.

- Up to date imagery
- Topographical data
- Multispectral for monitoring of crop health

Aerial Lidar

Surveying the whole farm allows you to see the bigger picture, sort out all the problems and even determine if it is viable and where to build dams.

- Topographical data.
- Orthophoto.
- Cadastral maps.
- Other data example pipelines and fences.

Hyper Spectral

By combining soil classes, topographical data, rainfall statistics and other inputs, an analysis can be done to determine potential and drainage problems.

- Soil calcification
- Soil chemistry
- Agricultural potential maps
- Plant health

Thermal Mapping

You can determine which soils saturate quicker than others, where water levels are, find out if the type of soil is suitable to build a dam on and detect if your dam is leaking.

- Mapping of water paths.
- Detection of leakages on earth dams.
- Mapping of saturated soils

Surveying with Quad

RTK GPS surveys to assure absolute accuracy.
Surface Drainage involves managing the water flow and direction on your land to eliminate ponding and dry spots in your field.

We determine the best strategy to optimize water flow on your land. Whether it is leveling or forming, we know how to do it with optimal efficiency.

Although land levelling (traditional method) is effective in certain situations, we at AD are believers and experts in the more modern method – land forming – which is a lot more cost and energy efficient.

This modern approach uses software that formulates a 4D design to achieve the same results as levelling while moving just a fraction of the earth.

**Land forming/Surface Drainage**
Minimise erosion and promote more uniform water infiltration.

**Contour and waterway building**
To assist surface drainage.

**Land levelling**
For effective water utilization.

- Mostly more cost-effective than subsurface.
- Prevent ponding.
- Evenly spread water.
- Less erosion
- Fewer contours
- Reduces input risks

“Take back control of your land by utilizing the water you have on your land right”
Earth Dams
The design and building of earth dams to optimise runoff water utilisation.

Pipelines
Supplying the pipe and installing.

Irrigation
Supplying center pivots.

Earth Works
Rehabilitation of land and closing of furrows, roads, airstrips etc.
With the necessary footwork done, we can now assist you in finance options for drainage from all major financial institutions and agricultural co-ops.

A variety of needs can be met with different options and packages of financing.

Now you can apply your cash flow to other important responsibilities and let drainage be the long-term investment it is meant to be.

With an increased growth in yield of between 20% and 60% (depending on the type of crop), drainage is a working investment for 365 days of the year with a lifespan of 150 years.

**Investment**
Make a calculated, well-planned investment through surface or subsurface drainage and experience great return.

**Partners**
We have partnered with leading financial institutions and agricultural co-ops to provide finance for drainage of your land.

**Rewards**
A lifetime of water management which in turn has maximum yield increase as a result.

"An investment that works 365 days of the year."

**FINANCE**

**WHY GET FINANCE?**

**SUPPORTED BY SENWES FINANCE AND ALL MAJOR BANKS**
With the objective of creating a calculated and focussed solution for the finance of drainage, we’ve partnered with strategic groups of professionals on behalf of our clients.

Financing institutions include major South African banks and big agricultural co-ops who are on board and this presents great opportunity for asset based finance and multi-peril crop insurance.

Furthermore, we work with the ARC (Agricultural Research Council) in researching and developing new guidelines for innovative and effective drainage ways, which serves as proof of the quality and benefits of the drainage services and products we offer.

With many years’ experience in drainage we can communicate the following statistics regarding the outcomes of drainage as an investment.

**QUALITY ASSURED SOLUTIONS**

**YIELD INCREASE**

- **Potatoes** 40%
- **Sugarcane** 40%
- **Vegetables** 30%
- **Maize** 30%
- **Citrus** 20%
OUR TECHNOLOGY

SUBSURFACE TECHNOLOGY

Tile Plow
The "Tile Plow" is the latest trenchless technology for installing sub-surface drainage mechanically.

ASTM F449-97 Standard
Tile Plow design and installation technique result in minimal soil disturbance ensuring drainage pipes stay clean and free of clogging from excess sediment.

RTK GPS
Using RTK GPS technology, we install the drainage system to sub-inch accuracy ensuring an ideal predetermined slope to ensure correct water flow.

SURVEYING TECHNOLOGY

Quad Bike
For smaller survey areas a quadbike equipped with RTK GPS is used. This allows fast turnaround time while maintaining high mobility and access to problem areas.
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