



Water & Environmental Testing Services

Laboratory Advisory Agtech





HOME OF SOIL TESTING

Company Overview

Crop Nutrition Laboratory Services (CROPNUTS) is a private soil, water & food testing laboratory and advisory service company. Established in 1998, **CROPNUTS** has nurtured a diverse mix of clients drawn from various expert fields such as Agronomy, Environment Health & Safety (EHS), and Food Quality & Safety.

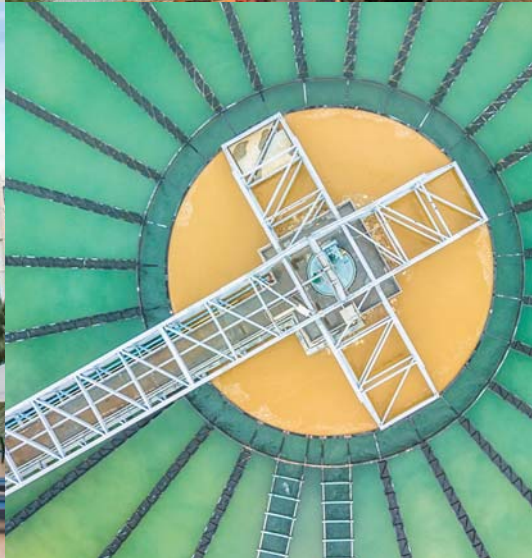
CROPNUTS' overall objective is to provide quality laboratory testing and trusted scientific advice on:



- 1) Better soil, fertilizer & crop management practices (Agronomy Services)
- 2) Certified safe drinking water & effluent water management practices (Water Services)
- 3) Food contamination control & fresh produce handling practices (Food Safety Services)

CROPNUTS' Water & Environmental Testing & Advisory Services are particularly tailored to industry players in the Environment Health & Safety (EHS) sector in Africa. Our water & environmental testing services help water sector players analyze effluent water, ensure compliance to effluent discharge license requirements and assess the efficacy of effluent treatment systems.

To serve our water testing customers better, **CROPNUTS** has established a state-of-the-art ISO/IEC 17025 accredited Laboratory in Limuru Kenya. This ISO accreditation is the internationally recognized quality standard for testing and calibration laboratories. **CROPNUTS** has been accredited for close to 10 years now and we have an extensive scope of laboratory tests under the ISO/IEC 17025 accreditation.



Our Typical Water Testing Customers

- Tea & Coffee Processing Factories
- Commercial Farms (Flower, Vegetable, Tea & Coffee Farms)
- NGOs & Development Organizations
- Industrial Manufacturers
- Water Bottling Companies
- Schools, Hospitals, Hotels & Lodges
- Shopping Malls
- Domestic Water Suppliers
- Borehole Drilling Companies
- Housing Organizations
- Apartment Blocks
- Waste Water Treatment Plants

Why Choose Us

- Faster turnaround time (clients get lab results & recommendations faster and inexpensively when analysis done locally as opposed to being done in a lab in Europe)
- Independent, unbiased recommendations
- Competitive Prices
- 100% compliance to International safety standard requirements
- Independent, competent Agronomy support for commercial farms

Our Portfolio for Water Testing & Environmental Services:

- Water Potability Analysis
- Effluent Water Analysis
- Irrigation Water Analysis
- Reverse Osmosis Water Analysis
- Swimming Pool Water Analysis

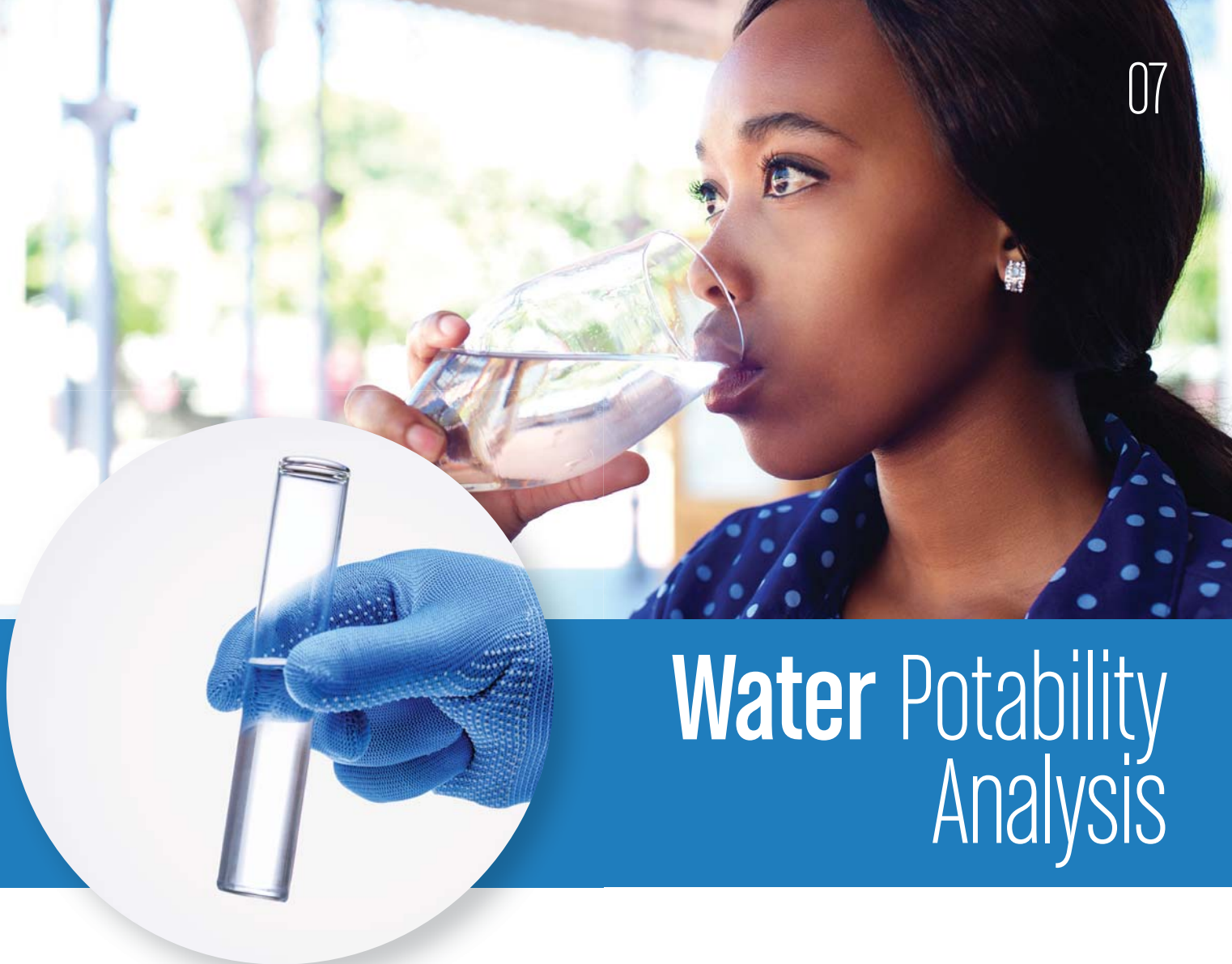


Water & Environmental Testing Services



CROPNUTS
grow more, with less





Water Potability Analysis

Our drinking water analysis services tell you if your water is safe to drink.

Our analytical services are accurate and quick, giving you the right information, in time. We offer the complete range of water analysis, including full chemistry and heavy metals analysis, full physical analysis and ISO 17025 accredited microbiological analysis. Our laboratory reports are very easy to understand. All results are compared against international World Health Organization, NEMA or Kenya Bureau of Standards guidelines for drinking water quality, according to your requirements.



Chemical Parameters:

pH, EC, Nitrate, Ammonium, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Chloride, Sulphate, Fluoride, Copper, Iron, Zinc, Manganese, Boron, Bicarbonates, Heavy metals (Lead, Nickel, Copper, Cadmium, Chromium, Zinc, Boron)

Physical Parameters:

Turbidity, Colour, Total Suspended Solids

Microbial Parameters:

Total Bacterial Count, Coliforms, E.coli, Streptococcus, Salmonella, Pseudomonas, Vibrio Cholera, Sulphite reducing bacteria.

Invest now in our drinking water analysis service to keep you, your family and all your employees healthy and productive every day





Effluent Water Analysis

Effluent water testing is a requirement for many industries to conform to local authority regulations such as the National Environment Management Authority (NEMA) regulations. We are an approved NEMA laboratory and we analyze a wide range of chemical, physical and biological parameters in effluent water. Our water reports indicate each result against local guide levels, to show which water parameters are high.

OUR NEMA EFFLUENT WATER ANALYSIS PACKAGES:

Effluent Discharge Into Public Sewer:

Chemical Parameters:

pH, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Ammoniacal N, Nitrates, Copper, Phosphate, Zinc, Arsenic, Cadmium, Chromium, Lead, Nickel, Mercury Selenium

Physical Parameters:

Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Colour, Oil & Grease

Effluent Discharge Into Environment:

Chemical Parameters:

pH, Electrical Conductivity, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Ammonium, Nitrate N, Total N, Phosphorus Chlorides,

Flourides, Boron, Copper, Sulphur, Zinc, Arsenic, Cadmium, Chromium, Lead, Nickel, Selenium, Aluminum

Physical Parameters: Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Colour, Oil & Grease

Microbial Parameters: Faecal E.Coli, Total Coliforms

Effluent Discharge Into Environment (NEMA 4th Schedule – Tea & Coffee)

Chemical Parameters:

pH, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Ammoniacal N, Nitrate N, Organic Nitrogen, Total N, Copper, Zinc

Physical Parameters: Total Suspended Solids (TSS), Colour

Microbial Parameters: Faecal E.Coli

Invest now in our NEMA effluent water analysis services to ensure your farming activity is not polluting your local environment and that your farm or industrial effluent water is conforming to national regulations set by NEMA.



Irrigation Water Analysis

High sodium, salinity, bicarbonates in water are all big problems when irrigating crops. Knowing the chemistry of the water is essential part of good irrigation management. The sodium adsorption ratio (SAR) is a critical calculation for assessing the suitability of irrigation water and is based on relationship between sodium, calcium and magnesium in your water. Water with a high SAR can quickly degrade soil structure – but this can be avoided, with the use of gypsum, for example.

Our irrigation water testing analysis is quick and covers all the important chemistry required for us to give you the best recommendations. We carry out charge balance calculations on all our water samples to ensure analytical accuracy.

Chemical Parameters:

pH, EC, Nitrate, Ammonium, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Chloride, Sulphate, Copper, Iron, Zinc, Manganese, Boron, Bicarbonates, Sodium Adsorption Ratio (SAR)

Physical Parameters:

Turbidity, Colour, Total Suspended Solids

Invest now in our irrigation water analysis services for monitoring your irrigation water quality and understanding how it can impact on your soil fertility and reduce your crop productivity if not correctly managed.





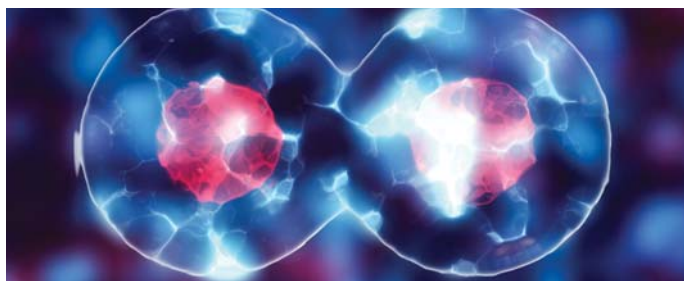
Reverse Osmosis Water Analysis

Treatment of saline water requires Reverse Osmosis technology to remove salts. Due to the effects of the water chemistry on the reverse osmosis membranes, a specific water analysis is required to optimize the design and maintenance of your system.

The Package:

pH, EC, Nitrate, Ammonium, Phosphorus, Potassium, Calcium, Magnesium, Sodium, Chloride, Sulphate, Copper, Iron, Zinc, Manganese, Boron, Bicarbonates, Aluminium, Silicon, Fluoride, Strontium, Barium, Total Dissolved Solids, Total Suspended Solids.

Invest now in our Reverse Osmosis Water Analysis in order to know the most suitable type of water filtration system to install in your home, office, farm or factory.





Swimming Pool Water Analysis

To ensure an optimum pool water environment, that is safe for swimming, Pool Water should be tested regularly. The swimming pool water pH, Total Chlorine levels, Total Dissolved Solids and Conductivity should ideally be tested every month by an accredited laboratory.

Periodic microbiology analysis of pool water is also recommended, to ensure that the water is safe from any water-borne diseases.

Chemical Parameters:

pH, Electrical Conductivity, Calcium, Magnesium, Sodium, Potassium,, Copper, Manganese, Iron, Combined Chlorine, Free Chlorine, Total Residual Chlorine, Total Alkalinity,

Physical Parameters:

Total Dissolved Solids (TDS), Turbidity, Hardness



Laboratory
Advisory
Agtech



Get in touch with us and we will put you in contact with our nearest Technical Advisor for
Water & Environmental Testing Services

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