



Bakhomong

ENVIRONMENTAL SOLUTIONS (PTY) LTD

Embrace the GREEN REVOLUTION



CORPORATE

PROFILE



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ENTERPRISE NAME

BAKHOMONG ENVIRONMENTAL SOLUTIONS (Pty) Ltd

TRADING AS

BAKHOMONG ENVIRONMENTAL SOLUTIONS

Registration number: 2015/229380/07

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Bakhomong Environmental Solutions (Pty) Ltd



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CONTENTS

BACKGROUND AND DEVELOPMENT	1
VISION, MISSION & VALUES	2
SERVICES	3
HYDROLOGICAL ASSESSMENTS	3
INTEGRATED ENVIRONMENTAL MANAGEMENT	3
MINING SERVICES	4
WATER USE LICENCE APPLICATION	4
GEOGRAPHIC INFORMATION SYSTEMS	5
INFORMATION TECHNOLOGY	6
SOCIAL CONSULTING	7
CONTACT DETAILS	8
TEAM STRUCTURE	9

BACKGROUND AND DEVELOPMENT

Bakhomong Environmental Solutions (Pty) Ltd (hereafter referred to as Bakhomong) was formed in 2015 to specifically deal with the challenges facing water and impacts on the environment by providing support services to a range of customers i.e. public and private institutions.

We are 100% black owned company that is committed to the expansion and upliftment of all communities in South Africa. Bakhomong is an innovative and competitive company specialising in provision of water and environmental solutions through tested methodologies and are involved in environmental research and development programmes.

Affirmative Action is important to Bakhomong, which is why the company has taken a leading role in the recruitment and training of Previously or Historically Disadvantaged Individuals. We recognise the social and financial imbalances of our society and seek to apply capacity building and training initiatives to address these areas.

Bakhomong consists of a dynamic and dedicated team of professionals from different sectors to address the diverse nature of natural resources, environmental and social issues, including technology based solutions.

Bakhomong is still relatively growing company and is always open to skill enhancement through collaborations with other companies in the IT, water and environmental management sectors for strategic partnerships to provide the solutions to the client base.

Our clients base ranges from individuals to large corporations and include local and regional governments, agriculture, mining and industrial sectors.

We offer key services in the fields of environmental management, mining services, hydrological assessments as well as social consultation. We also offer support services, which includes GIS services and IT services (software development).





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VISION

The vision of the company is to encourage continuous improvement, innovation and sustainable practices within the boundaries of the environmental Legislation, and to become our Clients' preferred Professional Service Provider (PSP) of choice through excellence and efficiency in all aspects of the project life cycle.

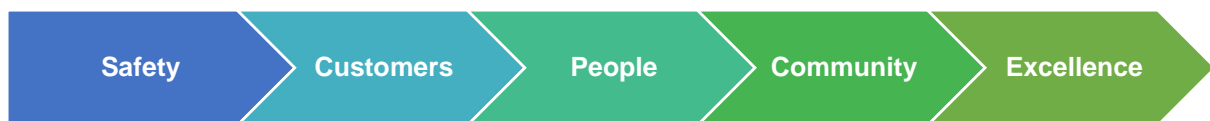
MISSION

Bakhomong is a privately owned multi-disciplinary consulting company comprising extensively of experienced professionals within the water, environmental and IT sectors with the ability to offer a wide range of services to diverse clients.

The main objective of the company is to positively contribute to the growth of our progressive country with customer focused quality products and services, and be socially responsible to our communities, where we draw our main clients and future employees. The company is also committed to empowerment and capacity building at all levels in our societies.

This mission is attainable through the principles of **integrity, transparency, commitment, communication and trust, relationship development**, and excellence with all deliverables aligned to the highest accredited standards.

VALUES



- **Safety** – We only do what is **safe and stop any unsafe behaviour**
- **Customers** – **We place them at the heart of our business** and relentlessly meet their expectations
- **People** – We develop the talents, **reward exceptional performance and respects the rights of all our employees**
- **Community** – We are active in the communities we serve to **generate economic, social and environmental value**
- **Excellence** – We constantly strive **to be excellent in all that we do**





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OUR KEY SERVICES

HYDROLOGICAL ASSESSMENTS

Hydrology is the study of the amount and quality of water being stored or conveyed on the land surface, and in soils and rocks near the surface.

The hydrological response of a catchment is controlled by a combination of climate, vegetation, drainage, soils and land use.

The key in-house Hydrological Assessments we can provide include;

- Catchment Analysis
- Catchment Flows
- Rainfall Analysis
- Overland flow/Runoff Assessment
- Flood Risk Assessment

INTEGRATED ENVIRONMENTAL MANAGEMENT

Proactive environmental planning saves money. What are the issues and regulations? How do you minimize your liabilities? Environmental resource management is the management of the interaction and impact of human societies on the environment. Bakhomong renders services, through our highly qualified staff and associated, in these fields:

- Basic Assessments (BA), Environmental Impact Assessments (EIA's) & Social Impact Assessments (SIA's)
- Strategic Environmental Assessments (SEA's)
- Land Use Planning
- Environmental Management Systems (ISO 14001)
- Environmental and Health Risk Assessments
- Integrated Water and Waste Management plans (IWWMP)
- Environmental Rehabilitation and Closure plans
- Environmental Monitoring Programmes: Water Quality Monitoring and report writing
- Environmental Auditing





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MINING SERVICES

Profitable mining demands an independent, experienced, long term perspective that gives you real answers. Our business provides value-adding products and environmental services to mining industry in South Africa while maintaining the highest standards with regard to all aspects of mining, environmental management and stakeholder engagement.

Bakhomong provides the following mining services:

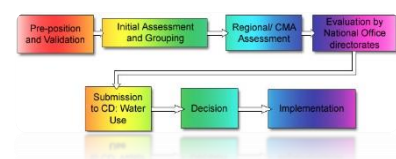
- Mine Water Management
- Environmental, Social, And Closure Compliance
- Hazardous Waste Removal
- Pump installation and maintenance
- Design and construction of stormwater management structures and dirty water containment facilities
- Software development for water and salt balance
- Dust suppression services

WATER USE LICENSE APPLICATIONS (WULA)

The National Water Act No 36 of 1998 (NWA), fundamentally reforms the law relating to water resources, recognising that water is a scarce and unevenly distributed national asset that belongs to the people of South Africa. The NWA provides the Department of Water and Sanitation with the mandate to protect, use, develop, conserve, manage and control the country's water resources in an integrated manner. Water is fast becoming the world's most precious commodity. Too much in the wrong place at the wrong time and this valuable resource becomes an unwanted hazard.

The NWA therefore provides the legal basis upon which to develop tools and the means to effect this mandate. One of these tools is the authorisation; licensing of water uses as defined in Chapter 4 of the NWA. This process is well known for being difficult, arduous, frustrating and time consuming for many developers and industries affected. Bakhomong has the expertise and the know how to assist clients in navigating, facilitating and undertaking this process for the following activities:

- a) Taking water from a water resource
- b) Storing water
- c) Impeding or diverting the flow of water in a watercourse
- d) Engaging in a stream flow reduction activity
- e) Engaging in a controlled activity
- f) Discharging waste or water containing waste into a water resource through a pipe, canal, sewer or other conduit
- g) Disposing of waste in a manner which may detrimentally impact on a water resource
- h) Disposing in any manner of water which contains waste from, or which has been heated in, any industrial or power generation process
- i) Altering the bed, banks, course or characteristics of a watercourse
- j) Removing, discharging or disposing of water found underground for the continuation of an activity or for the safety of persons
- k) Using water for recreational purposes





GEOGRAPHIC INFORMATION SYSTEMS

A geographic information system (GIS) is a computer system for capturing, storing, checking, and displaying data related to positions on Earth's surface. GIS can show many different kinds of data on one map. This enables people to more easily see, analyze, and understand patterns and relationships.

ESRI's ArcGIS for Desktop is used in the following ways:

- **Urban Planning:** GIS technology is used to analyze the urban growth and its direction of expansion, and to find suitable sites for further urban development. To identify the sites suitable for the urban growth, certain factors have to consider which is: land should have proper accessibility, land should be more or less flat, land should be vacant or having low usage value presently and it should have good supply of water.
- **Disaster Management and Mitigation:** Today well-developed GIS systems are used to protect the environment. It has become an integrated, well developed and successful tool in disaster management and mitigation. GIS can help with risk management and analysis by displaying which areas are likely to be prone to natural or man-made disasters. When such disasters are identified, preventive measures can be developed.
- **Determine land use/land cover changes:** Land cover means the feature that is covering the barren surface. Land use means the area in the surface utilized for use. The role of GIS technology in land use and land cover applications is that we can determine land use/land cover changes in the different areas. Also, it can detect and estimate the changes in the land use/land cover pattern within time. It enables to find out sudden changes in land use and land cover either by natural forces or by other activities like deforestation.
- **Soil Mapping:** Soil mapping provides resource information about an area. It helps in understanding soil suitability for various land use activities. It is essential for preventing environmental deterioration associated with misuse of land. GIS Helps to identify soil types in an area and to delineate soil boundaries. It is used for the identification and classification of soil. Soil map is widely used by the farmers in developed countries to retain soil nutrients and earn maximum yield.





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INFORMATION TECHNOLOGY

Bakhomong customized software products and be-spoke software development and Integration solution are designed to meet unique business software requirements and will integrate seamlessly with you core business systems. Your business is unique. So are your software needs. Bakhomong delivers:

- Software that meets your exact business needs and is adaptable to your ever-changing requirements
- Control of your software environment
- Knowledge and expertise to solve complex integration challenges
- Solutions that are flexible and scalable, allowing you to modify them as your business evolves

Business Benefits

- Enabling real-time information access across different systems
- Streamlining business processes and improving organizational efficiency
- Maintaining information integrity across multiple systems
- Integrating IT systems to address every function, including Case Management System, Integrated Water Resource Information Management System, customised mobile apps

Software Offerings

- Software development
- Application support
- System integration
- Application assessment
- Application lifecycle management
- Mobile application development
- User experience and interface design
- Database development





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SOCIAL CONSULTING

Informed decision-making through effective stakeholder engagement and communication is key to social consultancy. Sustainability is promoted through capacity building and training programs. Geo-environmental and other projects have significant impacts on communities and the social unit seeks to address and facilitate these and other socio-economic affects.

The following social services are rendered by Bakhomong Environmental Solutions:

Feasibility Studies (an assessment of the practicality of a proposed plan or method)

- Research & Development
- Conduct Social Studies
- Assessments (Impact Assessments)
- Baseline Surveys

Training & Capacity Building

- Skills Trainings

Education & Awareness Programmes

- Awareness Campaigns
- Training material development

Monitoring & Evaluation

- Progress Outcomes

Social Facilitation

- Stakeholder Engagement & Consultation
- Community Involvement & Mobilisation
- Establishment of Communication Structures
- Conflict Resolutions





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CONTACT DETAILS

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TEAM STRUCTURE

