



ENVIRONMENTAL HERITAGE

Our Environment Our Heritage

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OUR MISSION

We are committed to provide sustainable, novel and cost effective environmental solutions to further our clients' success and to promote fulfilment to our stakeholders

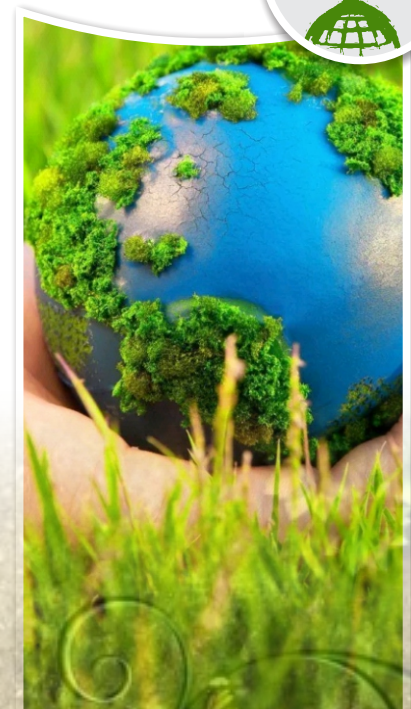
OUR NAME

Environmental Heritage - embodies a fresh standpoint. We are a young and dynamic company, with a proven record and reputation. We are committed to ground-breaking new ways of working together and delivering professional excellence to our clients.

ABOUT US

Environmental Heritage Private Limited is the company of first choice for environmental and natural resources management. At Environmental Heritage we believe in maintaining and accomplishing a good balance interaction between human beings and environment in a bid to obtain sustainable development. The team consist of individuals with vast experience in providing the industry with professional, specialized and cost-effective consultancy services. As such, we strive for excellence in all aspects of business with the result that the majority of our clients have a long-standing relationship with the company. In particular Environmental Heritage specializes in the provision of consultancy services in the following sectors:

1. Environmental Impact Assessments (EIA)
2. Safety, Health, Environment & Quality (SHEQ) Management Systems (ISO 9001:2015, ISO14001:2015 & ISO45001:2018)
3. Water Resources Management and Waste Water Management
4. Geographic Information Systems and Remote Sensing
5. Municipal Solid Waste and Hazardous / Special Waste Management
6. Natural Habitats Management
7. Sustainable Development and Land Use Management
8. Hydro-geological and Geotechnical Studies
9. Renewable Energy Sources Development
10. Environmental Management for the Industry (ISO 14001:2018)



SERVICES

ENVIRONMENTAL IMPACT ASSESSMENT (EIA?)

The environmental impact assessment (EIA) process is an interdisciplinary and multistep procedure to ensure that environmental considerations are included in decisions regarding projects that may impact the environment. The purpose of the EIA process is to inform decision-makers and the public of the environmental consequences of implementing a proposed project.

In accordance to the Environmental Management Act (CAP 20:27) of 2002 and Statutory Instrument 7 of 2007 (Environmental Impact Assessment and Ecosystems Protection) state that prescribed projects listed under the first schedule of the EMA Act (Cap 20:27) should undergo an EIA prior to implementation. In some cases, an EA will require that during construction a development must be independently audited, monitored and staff trained to ensure environmental compliance.

- ❖ Environmental Impact Assessment of private and public projects (EIA)
- ❖ Environmental Impact Statements of private and public projects – Screening Procedure (EIS)
- ❖ Strategic Environmental Assessment for public plans or programs (SEA)
- ❖ Appropriate Assessments of plans and projects significantly affecting the environment

- ❖ Environmental Permit Applications
- ❖ Application Preparation for Local Wastewater and Solid Waste Discharge Permits
- ❖ Application Preparation for Local Air pollutant Emissions' Permits
- ❖ Application Preparation for Solid waste and Hazardous Waste Management Permits
- ❖ Environmental Impact Assessment / Environmental Impact Statements / Appropriate Assessments of plans and projects significantly affecting the environment



SAFETY, HEALTH, ENVIRONMENT & QUALITY (SHEQ) MANAGEMENT SYSTEMS

Environmental Heritage (Pvt) Ltd is your trusted consultancy when it comes to SHEQ. We pride in providing Integrated Management Systems that comprise of ISO 9001:2015, ISO14001:2018 and ISO45001:2018 to both small and large corporates. The three systems assist organizations to systematically satisfy customers through provision of quality goods and services, improve on environmental management and to minimize the risk of occupational health and safety adverse events or accidents. Environmental Heritage has got a team of renowned experts that have trained with NEBOSH and are certified by the Standards Association of Zimbabwe (SAZ) and the internationally recognized DQS to train, develop, implement and audit those international standards and guarantee certification. Below is what offers in detail:

- Client support on environmental legal requirements
- Application Preparation for Environmental Subsidy Grants
- Planning, design and operation of treatment installations for the management of liquid, solid and hazardous wastes,
- System development and implementation of the following ISO standards;
 - a) Quality Management System (ISO9001:2015)
 - b) Environmental Management System (ISO14001:2018)
 - c) Occupational Health & Safety Management System (ISO45001:2018)
- Conducting legal compliance audit for all types of industries
- Conducting internal audits on behalf of the client
- Training of company employees on SHEQ legal & other requirements
- Training and establishing Behavior or Value Based Safety (BBS or VBS)
- Industrial Hygiene surveys
- SHEQ Consultancy to all types of organizations
- Establishing food safety management systems, HACCP etc.



- SHEQ signage supply
- Supplying Personal Protective Equipment or Clothing (PPE/C)
- Environmental compliance in construction works supervision and environmental monitoring during operation
- Expert Judgments

OCCUPATIONAL, HEALTH AND ENVIRONMENTAL HYGIENE SURVEYS

In a bid to ensure continual improvement and compliance for our esteemed customers, Environmental Heritage offers the services below as part of post EIA services. The following are some of the services:

Air Pollution

Environmental Heritage conducts stack emissions monitoring in accordance to our Environmental Management Act (20:27) and the Statutory Instrument (S.I) 72 of 2009. We have over two years of Stack Emissions Monitoring experience for smelting furnace, boilers, kilns, incinerators, generators and vehicles. We use the latest models of Germany-made Optima 7, to measure; O₂, CO₂, Stack gas Temperature). (Up to 1,100 °C), NO, NO₂, NO_x, SO₂ and Particulate Matter. Coupled with GIS experience, we can conduct plume dispersion and air pollution modeling.

Dust(PM 2.5 and PM 10)

Environmental Heritage uses the state of the art, Casella Microdust Pro testers to measure respirable dust in construction sites, hotels, workshops, mine shafts, hospitals and other areas where dust is produced or trapped. The equipment has got a; real time graphical display, extensive



range: 0.001mg/ m³ to 250g/m³, sampling for total respirable dust, with a potable on-site calibration insert.

Heat Stress

Environmental Heritage uses the latest Heat Stress; Wet Bulb Globe Temperature (WBGT) equipment sourced from the United States of America (USA). The machine uses the wet bulb and black globe in line with ISO 7243. The following are the key parameters that we can measure; WBGT(indoor) 0 – 59°C, WBGT (outdoor) 0 - 56 °C, Air Temperature 0 - 50 °C, Black Globe Temperature 0 - 80 °C, Humidity 1 - 99%, Dew Point Temperature -35.3 - 48.9 °C, Wet Bulb Temperature -21.6 - 50 °C. The equipment is used to assess heat in canteens, thermal power generation and smelting plants and other heat producing areas.

Noise

As Environmental Heritage we use the state of the art, real-time, Digital Sound Level Meter, CEL 63X series from Casella Instruments. The equipment is capable of measuring both environmental and occupational noise; which is conducted according to ISO 9612 while environmental noise measurements are based on ISO1996. They also have a single measurement range up to 140dB and a real-time octave and 1/3 octave measurements.

Vibration

Environmental Heritage uses a high powered and latest Amittari instrument that can measure the vibration parameter of triaxia land single axis simultaneously, in accordance with ISO 2954. Its vibration testing range is from 10Hz to 10 kHz. It has optional headphones for use as electronic stethoscope. This is used in area where workers are subjected to vibrating environment especially for the jack hammer operators.

Illumination

Poor lighting in workplaces usually leads to visual fatigue and eye strain. To quantify light as work places we use potable Tenmars testing equipment that measure the luminance in the level of the working task (table) +/- 0,85M above the floor (outdoors 0,5m above the ground) according to international guidelines. Over the years, we conducted luminance surveys in workshops, restrooms, gymnasia, classrooms, corridors, and warehouses according to JIS standard Z 9110-1979.



WATER RESOURCES MANAGEMENT

Water management is the management of water resources under set policies and regulations. Water, once an abundant natural resource, is becoming a more valuable commodity due to droughts and overuse. Water resource management is the activity of planning, developing, distributing and managing the optimum use of water resources. It is a sub-set of water cycle management. Ideally, water resource management planning has regard to all the competing demands for water and seeks to allocate water on an equitable basis to satisfy all uses and demands. **Environmental Heritage** offers in respect of water; provision of the protection the environment and the prevention and control of water pollution; to provision of approval of combined water schemes; to provide for matters relating to dam works; in accordance of the Water Act (Chapter 20:22) of 1998. Other services include

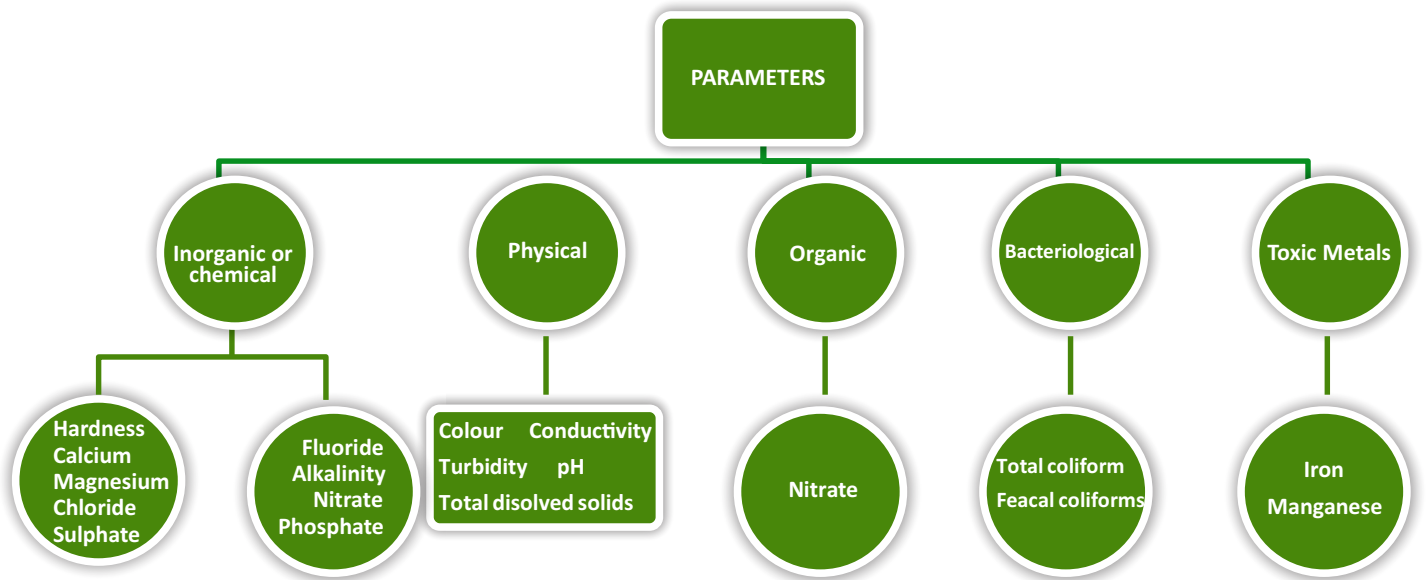
WATER TESTING AND ANALYSIS

Water testing is a broad description for various procedures used to analyse water quality. It is carried out to identify and quantify the chemical components and properties of water samples. The type and sensitivity of the analysis depends on the purpose of the analysis and the anticipated use of the water. The testing facilities at Environmental Heritage offer a combined, extensive examination of your water, consisting of environmental, raw and waste water analyses at an excellent price.

In all cases the results of the analysis provides information that can be used to make decisions or to provide re-assurance that conditions are as expected. The analytical parameters selected are chosen to be appropriate for the decision making process or to establish acceptable normality. Water analysis is often the groundwork of studies of water quality, pollution, hydrology and geothermal waters. Analytical methods routinely used can detect and measure all the natural elements and their inorganic compounds and a very wide range of organic chemical species.



Water Quality Assessment offered at Environmental Heritage for Potable, Irrigation & Industrial Uses



GEOGRAPHIC INFORMATION SYSTEM

Geographic Information System is a powerful set of tools for collecting, storing, retrieving at will, transform and displaying spatial data from the real world. An information technology which stores, analyses and displays both spatial and non-spatial data .A decision support system involving the integration of spatially referenced data in a problem solving environment the ultimate purpose of GIS is to provide support for making analysis based on spatial data

GIS SERVICES

Environmental Heritage offers efficient GIS systems compatible with the following software packages, ArcView, AutoCAD, MapInfo, QGIS and ArcGIS.

- GIS data collection, capture, manipulation and analysis
- Geographic location points collection using GPS
- Download GPS points into the GIS system.
- GIS modeling.
- Geo-referencing and spatial data capture.
- Digitizing.
- Importing Google Earth data into GIS software.
- Image interpretation

POSSIBLE APPLICATIONS OF GIS

Environmentalist might be interested in knowing how much forest have we lost since a particular year or what have been the changes to the land use. They might as well like to identify the high-risk areas due to flooding by looking at rainfall patterns and terrain characteristics;



Water Manager might be interested in understanding the spatial distribution of water quality in a river or lake, or the spatial distribution of water quality in boreholes around a particular area

The Ministry of Agriculture might be interested in calculating the hectares that has been planted under different crops for the purpose of calculating the expected yield. Land suitability applications, delineation of agro-ecological zones according to climate

Biologist might be interested in the impact of slash-and-burn practices on the animal species in the forests of a mountain range to obtain a better understanding of the involved long-term threats to those populations

Geological engineer might want to identify the best localities for constructing buildings in an area with regular earthquakes by looking at rock formation characteristics.

RENEWABLE ENERGY DEVELOPMENT

Renewable energy is energy that is collected from renewable resources, which are naturally replenished such as sunlight, wind, rain, and geothermal heat. Renewable energy often provides energy in four important areas: electricity generation, air and water heating/cooling, transportation, and rural (off-grid) energy services. **Environmental Heritage** seeks to promote, disseminate and develop knowledge as well as technologies of renewable energy systems.

Services offered include

- i. Biomass Conversion
- ii. Photovoltaic Technology Conversion
- iii. Solar Thermal Applications
- iv. Wind Energy Technology
- v. Solar and Low Energy Architecture
- vi. Hydro Power
- vii. Technology and Fuel Cells
- viii. Socio-economic and Policy Issues



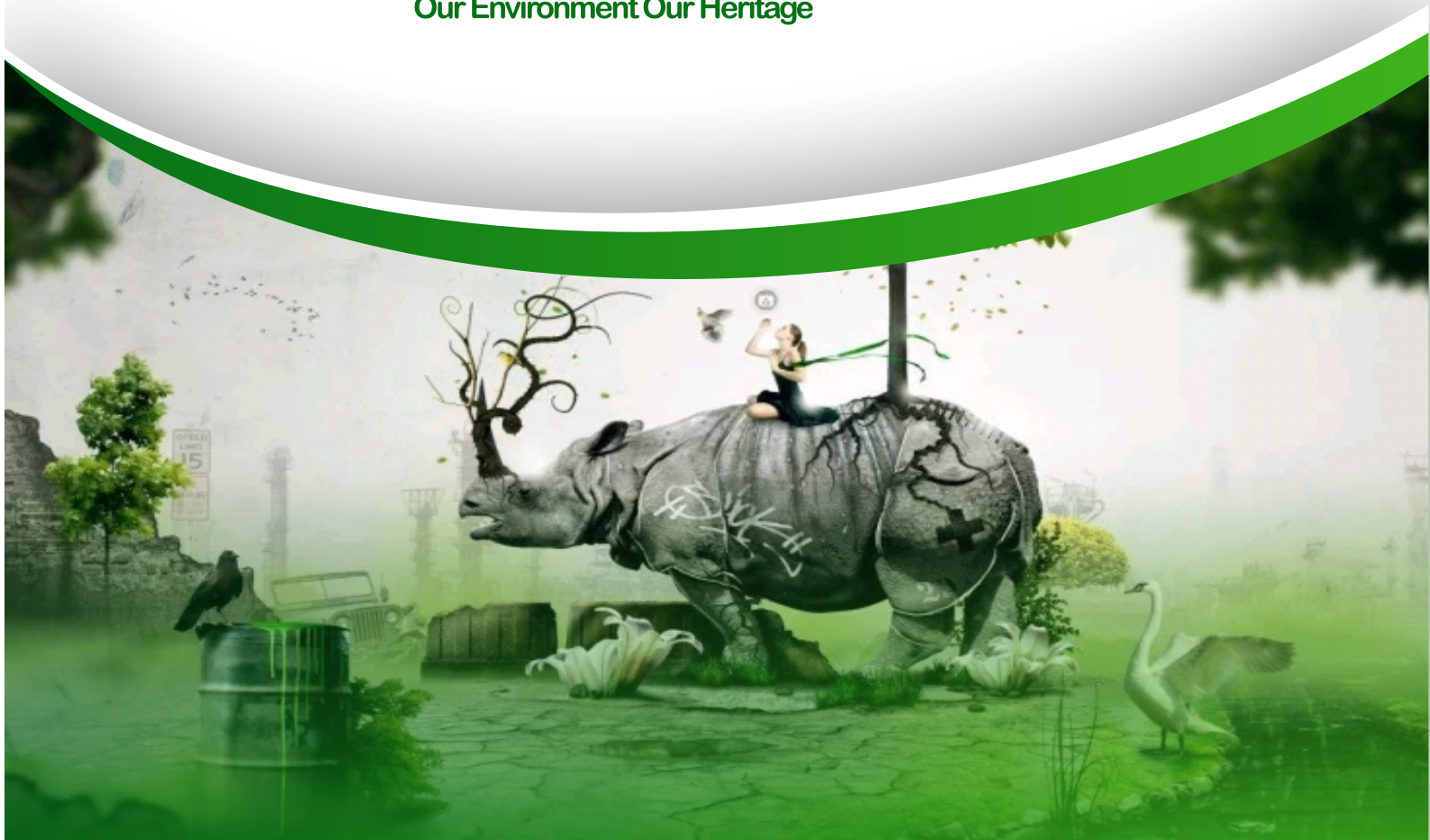
HABITATS, WILD FLORA AND FAUNA MANAGEMENT

- Environmental Site Management Planning (SCI, SPA)
- Forest and Wetland Management Planning
- Appropriate Assessments of plans and projects significantly affecting the environment
- Site Investigations, Assessments and Recordings
- Environmental Data Compilation and Assessment – Mapping and GIS analysis – DSS and Environmental Tool Development – Design of Monitoring Programs



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