## **EMNAMBITHI – LADYSMITH MUNICIPALITY**



# **Colenso Cemetery**

# 1<sup>st</sup> DRAFT

# **ENVIROMENTAL MANAGMENET PLAN**

Version 1.1

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## 2. Background

Environmental Agency has been appointed by Emnambithi/Ladysmith Municipality to undertaken an Environmental Impact Assessment for the proposed Extension of Colenso Cemetery. An Environmental Management Programme (EMP) forms part of the Basic Assessment process as it provide mitigation measures to the impacts identified during the project establishment, construction and operation, where applicable and decommission/closure. EMPr describes mitigation measures in detail, and is prescriptive, identifying specific individuals or organisations responsible for undertaking specific tasks to ensure that impacts on the environment are minimised during construction and related activities.

It is an open and a living document of information gained during the Environmental Impact Assessment (EIA) Process, and from on-going monitoring of procedures on site which could lead to changes in the recommendations and specifications of this document.

This document is intended to guide and manage the operation of the new proposed Colenso Cemetery. The proposed Extension of Colenso Cemetery is on Erf 152, Colenso, Emnambithi-Ladysmith, Uthukela District, KZN. It is 6.269746 ha in extent. The site will consist of burials space, control access point and fencing of the entire site.

#### 3. LIST OF ACRONYMS USED

DEDTEA : Department of Economic Development, Tourism and Environmental

Affairs

DWA : Department of Water Affairs – National (Pretoria)

ECA : Environmental Conservation Act ECO : Environmental Control Officer EMP : Environmental Management Plan

EMPR : Environmental Management Programme

GN : Government Notice

IAAPs : Interested and Affected Parties

LPG : Liquid Petroleum Gas

MSDS : Material Safety Data Sheets

NEMA : National Environmental Management Act

NWA : National Water Act

NEM: WA: National Environmental Management: Waste Act

OHSA : Occupational Health and Safety Act

WL : Waste License

#### 4. LIST OF TERMS USED

- **Contractor:** Persons/organisations contracted by the Developer to carry out parts of the work for the planned development.
- Construction Phase: The Construction Phase is the period of commencement of physical disturbance to the land,
- **Demolition:** The removal of unwanted existing infrastructure and associated materials.
- **Environment:** The surroundings within which humans live and that consist of:
  - a. the land, water an atmosphere of the earth;
  - b. micro-organisms, plant and animal life
  - c. any part or combination of (a) and (b) and the interrelationships among and between them; and the physical, chemical, aesthetic and cultural properties and conditions of the foregoing that influence human health and well-being.
- Environmental Audit: A systematic, documented verification process of objectively obtaining and evaluating evidence to determine whether specified environmental activities, events, conditions, management systems, or information about these matters conform with audit criteria, and communicating the results of this process to the client.
- Environmental Control Officer: A person appointed and paid for by the Developer to ensure compliance with Environmental Authorisation and conditions, Duty of Care, and all other requirements as deemed fit by the

Authorities charged with implementing environmental legislation, and the EMP.

- **Hazardous substance:** A substance which can have a deleterious effect on the environment, as defined in the Regulations for Hazardous Biological Agents, 2001.
- **Inspector:** An official appointed and empowered to act in terms of section 31 of the National Environmental Management Act
- Interested and Affected Parties (IAAP's): Those individuals or organisations that have an interest in the proposed development or will be directly affected by the activities of the development, as identified in the environmental impact assessment process.
- Incident: An environmental incident as defined in section 30 of NEMA
- Method Statement: A method statement is a written submission by the Contractor to the Engineer in response to the specification or a request by the Engineer, setting out the plant, materials, labour and method the Contractor proposes using to carry out an activity, identified by the relevant specification or the Engineer when requesting a Method Statement. It contains sufficient detail to enable the Engineer to assess whether the Contractor's proposal is in accordance with the Specifications and/or will produce results in accordance with the Specifications.
- **Pollutant and Pollution**: a contaminant at a concentration high enough to endanger the environment or the human health.
- **Project:** The proposed extension of Colenso Cemetery, Colenso, Emnambithi-Ladysmith Municipality, Uthukela District, KwaZulu-Natal.
- Risk: Ability and/or potential to harm or cause damage in relation to known occurrence.

#### 5. OBJECTIVES OF THE EMP

Objectives of the EMP can be summarised in a list below:

- To outlines activities to be performed and their environmental impacts and determines migratory measures.
- Outlines frequencies, aspects and detail of reporting mechanism to be installed.
- Management of complaints and resolution mechanism
- Define relevant roles and responsibilities of partners
- Defines what and which documents must be available on site
- Defines what and by who must be measured and reported
- Provides yardstick to measure and ensure compliance
- Gives effect to Sustainable Development principles

#### 6. LEGAL COMPLIANCE OF THE PROJECT

## 6.1. The Constitution (section 24 Bill of Rights)

Guarantees every person's right to an environment that is not detrimental to health. Further it enables measures such as legislation to be implemented.

## 6.2. National Environmental Management Act, 107 of 1998 (as amended)

Defines and specifies environmental management practices that contribute and implements section 24 of the Constitution. Section 28 (1) of NEMA places an obligation to the person/s to exercise Duty of Care when dealing with activities detrimental to the Environment and to take reasonable measures to avoid degradation. Failure to do so is a criminal offense.

## 6.3. KwaZulu-Natal Planning and Development Act No 5 of 1998

This act Deals with planning and related issues and is implemented by Local Municipalities. This act defines planning so as to achieve coherent and compatibility in land uses in the Municipal area concerned.

## 6.4. Conservation of Agricultural Resources Act, No 43 of 1983

This legislation deals with utilisation and conservation of agricultural land and activities that impact on agricultural resources. It regulates the unsustainable utilisation of Agricultural Natural Resources and changes in Agricultural lands which may lead to unsuitable land uses and/or loss of viability of Agricultural lands and resources.

## 6.5. National Heritage Resources Act, No. 25 of 1999

Regulates the management of National heritage as identified or found on site during construction of the project. It specifies relevant authorities and measures to be taken when such occurrences are unearthed on site.

#### 6.6. National Water Act, No 36 of 1998

The National Water Act regulates the management of water resources by specifying measures to be taken to protecting and conserving them.

## 6.7. Occupational Health and Safety Act (OHSA), No 85 of 1993

The OHSA and its regulations regulate the workplace and machinery used in the construction industry. The act specifies legal appointments of e.g. Safety Officers and assigns responsibility to Health and Safety to relevant persons in the organisations.

## **6.8. Mines and Works Act, No. 27 of 1956**

This act regulates working in confirmed areas and in hazardous areas. A construction site for this project is covered by this act.

#### 7. DETAILED SCOPE OF EMP

## 7.1. Conditions of Contract / Roles and Responsibilities

The Developer and Contractor must be responsible for ensuring compliance with the provisions contained in the EMP, and must be held accountable in terms of the EMP.

## 7.2. Duties and powers of the Developer

The Developer has overall responsibility for compliance with the EMP as it is a fundamental component of the authorisation requirements for the project. This means that the Developer must:

- Ensure that the professional team and the Contractors are appropriately briefed and that their appointment includes environmental requirements as relevant.
- Ensure that he is kept fully informed of the performance of the project against the requirements of the EMP.
- Ensure that appropriate action is taken where consistent incidents of noncompliance are taking place.
- Ensure that any corrective action required by the authorities is implemented.

## 7.3. Duties and Powers of the Site Manager

The Site Manager is ultimately responsible for ensuring compliance with the Environmental Management Plan. The Site Manager:

- Maintains a register of complaints and queries by members of the public at the site office. This register is forwarded to the Environmental Control Officer on a bi-monthly basis.
- Enforces the EMP on site and Monitors compliance with the requirements of the EMP.
- Assesses the Contractor's environmental performance in consultation with the Environmental Control Officer.

## 7.4. Duties and Powers of the Environmental Control Officer

The Environmental Control Officer (ECO):

Must be appointed by the Developer to visit the site from time to time once the first activities start on site.

 Undertake induction training and briefs the Site Manager and the Contractor about the requirements of the Environmental Management Plan.

- Advises the Site Manager about the interpretation, implementation and enforcement of the Environmental Specification and other related environmental matters.
- Advises and Attends site meetings, as necessary.
- Monitors the Contractor's compliance with the EMP by undertaking an environmental audit at the start of the construction phase, then monthly thereafter until all works on site have been completed, and then a close-out audit is to be undertaken.
- Reports on the performance of the project in terms of environmental compliance with the EMP to be submitted to the Site Manager, Local Municipality, DWAF and DEDTEA.
- Provides technical advice relating to environmental issues to the Site Manager.
- Acts as liaison with DEDTEA, and other environmental organisations or stakeholders as necessary.

## 7.5. Extent of the Contractor's Obligations

The Contractor is required to:

- Supply method statements and management plans for all activities requiring special attention as specified and/or requested by the Site Manager or Environmental Control Officer during the duration of the Contract.
- Be conversant with the requirements of the Environmental Management Plan.
- Brief staff about the requirements of the Environmental Management Plan.
- Comply with directives/instructions of the Environmental Control Officer in terms of this EMP.
- Ensure any sub-contractors/ suppliers who are utilised within the context of the contract comply with the environmental requirements of the EMP.
- Take full responsibility and be held responsible for non-compliance on their behalf.
- Bear the costs of any damages/ compensation resulting from non-adherence to the EMP or written site instructions.
- Ensure that the Site Manager is timeously informed of any foreseeable activities that will require input from the Environmental Control Officer.
- The Contractor will conduct all activities in a manner that minimises disturbance to directly affected residents and the public in general, and foreseeable impacts on the environment.

## 7.6. EMPr Layout

The EMPr is divided into four phases which are Pre-construction, Construction, Post-Construction and Operation phase. Each phase have specific mitigation measures to be enforced during that phase to prevent/minimise negative impacts associated with the project.

## 8. PRE-CONSTRUCTION (SITE ESTABLISHMENT)

Pre-Construction EMP activities are those relating to the preparation of the site prior to the start of the Construction Phase.

## 8.1. Site Demarcation and No-go

The targeted area for cemetery and no-go areas must be clearly demarcated with guidance/authority of the ECO to avoid unnecessary disturbance and clearance of indigenous vegetation.

#### 8.2. Access to the Site

This site must have strict access control to reduce the risks associated with vehicular transportation and pedestrian access on the site. The Contractor must be made aware of this requirement by the Developer prior to construction commencing on site.

## 8.3. Preparation of Method Statements and/or Management Plans

Method Statements and/or Management Plans must be submitted by the Contractor and must be adhered to by the Contractor and Site Manager. These relate to water and storm water management requirements, traffic requirements, solid waste management requirements, fuel storage and filling and dispensing of fuel (diesel and petrol), hydrocarbon spills, contaminated water treatment, the storage of hazardous materials, standard emergency procedures, and biohazard control. The Environmental Control Officer must the implementation of the Statements and Management Plans. All copies of the statements and plans must be submitted to the appointed Environmental Control Officer.

## 8.4. Permits required

The necessary permits must be obtained by the Developer prior to the commencement of construction and sufficient time must be allowed to obtain such permits, for activities such as:

- a. The sourcing of borrow material which if required, would constitute Mining Right Permits from the Department of Minerals & Energy.
- b. The disposal of effluent offsite.
- c. The management of storm water on site.
- d. Abstraction of water (ground or from a river), and for stream flow reduction activities, from the Department of Water and Sanitation.
- e. The relocation, removal or pruning of protected trees from the Department of Water and Sanitation.

## 8.5. Provision of Bulk Services

The Site Manager must confirm that the existing services on site are sufficient for demands of operating plant, such as water and electricity.

Agreement will be required with Emnambithi-Ladysmith Municipality or Uthukela District Municipality for these services.

## 8.6. Layout of Construction Camp

No construction camp site needed for the proposed development; hence none must be established, except for a suitable container to store material, machinery, fuel and plant.

## 8.7. Storm Water Management

- a. On-site storm water controls must be implemented prior to the start of construction. A Storm Water Management Plan needs to be submitted by the Contractor and approved by the Site Manager. The increase in storm water runoff resulting from construction activities must be estimated and the drainage system assessed accordingly to prevent storm water damage.
- b. It is important that the attenuation and/or retention ponds be aligned with future artificial wetlands that have been proposed for collecting runoff from the site prior to it entering the water course.

## 8.8. Soil Management

- a. The Contractor must ensure that wind screening and storm water management controls must be undertaken to prevent soil loss during site establishment. This will involve erection of shade cloth fencing around the site perimeter, where considered necessary by the Site Manager.
- b. The time that stripped areas are exposed must be minimised wherever possible. Care must be taken to ensure that lead times are not excessive.
- c. Procedures that are in place to conserve topsoil during the construction phase are to be applied during the site establishment phase, i.e. topsoil is to be conserved while providing access to the site and setting up the camp.
- d. Prior to Site establishment the Contractor must strip and stockpile all soil within the works area for possible subsequent use. Stockpiled soil must not be in excess of 2 m in height, and must be protected from wind and rain with the use of tarpaulins where necessary.

## 8.9. Conservation of Natural Resources

The conservation of natural resources is applicable to areas outside the perimeter of the property and governs the behaviour of contractors and employees.

a. No natural vegetation may be cleared during the site establishment without the prior permission of the Department of Economic Development, Tourism and Environmental Affairs after a motivation from the ECO.

b. Care must be taken to avoid the introduction of alien plant species to the site and surrounding areas.

## 8.10. Cultural Heritage Environment

- a. The archaeological component (Phase 1) and any other applicable heritage components. Amafa KZN Heritage therefore requires the appointment of an Amafa accredited Heritage practitioner to assist in the provision of recommendations and mitigation procedures.
- b. Any archaeological or historical assets found prior and during constructing must be protected and Amafa AkwaZulu-Natal be notified of such findings. No construction must continue at such area.
- c. All contractors and sub-contractors and their employees must made aware of a) so as to act in compliance.

## 8.11. Security Fencing

a. During site establishment the site must be secured if necessary to minimize the opportunity for criminal activity in the locality of the site. The site must be fenced and manned on a 24 hour basis.

## 8.12. Lighting On-site

- a. Adequate but intrusive light must be provided on site, such light must be minimised to the intended use only.
- b. The light must not pollute aesthetically and/or interfere with surrounding environment and users.

## 8.13. Noise Impacts

- a. All Construction vehicles must be in good working condition. Any unfit or badly maintained vehicles must be removed from site for repairs.
- b. Construction vehicles must whenever possible be fitted with silencers to minimise noise levels during construction.

## 8.14. Designated Working Hours

a. In line with Department of Labour's requirements, operational hours must be as follows.

Day	Start Time	Finish Time	Hours per Day
Weekdays	07h00	17h00	10
(Monday to Friday)			
Saturdays	08h00	16h00	8
Sundays and Public	08h00	14h00	6
Holidays (If required)			

b. Any deviations from the above must be approved in writing by the Department of Economic Development, Tourism and Environmental Affairs or Emnambithi-Ladysmith Local Municipality.

#### 8.15. **Environmental Awareness & Induction**

- a. The Contractor must ensure that the construction team and all sub-contractor/s are familiar with the EMP requirements and have a basic level of environmental awareness training.
- b. The Environmental Control Officer must undertake environmental awareness induction training prior to the start of construction activities on site.
- c. Topics to be covered by the Induction must include:
  - Explanation of what is meant by "environment" and why the environment needs to be protected and conserved.
  - How construction activities can impact on the environment, and what measures can be taken to militate against these impacts.
  - Awareness of emergency and hazardous spills response provisions.
  - Prevention of pollution and litter control and the minimization of disturbance to sensitive areas.
  - Social responsibility during construction. This entails being considerate to local residents.
  - Construction Workers need to be made aware that they are not to make excessive noise (e.g. shouting/hooting) as the site is borders the residential properties.
  - The need for a "clean site" policy also needs to be conveyed to construction workers.
  - Worker conduct on site which encompasses a general regard for the social and ecological wellbeing of the site and adjacent areas.
  - Workers need to be made aware of the following general rules of behaviour.
  - No alcohol/drugs to be present on site and no firearms permitted on site or in vehicles transporting staff to /from site, (unless used by security personnel).
  - Prevention of noise and unsocial behaviour.
  - Bringing pets on site is forbidden, and no harvesting of firewood from the site or for areas adjacent to it.
  - Workers are to make use of facilities provided for them, as opposed to adhoc alternatives (e.g. the use of surrounding bush as a toilet facility is forbidden; fires for cooking).
  - Driving under the influence of alcohol is prohibited.
  - Trespassing on private/commercial properties bordering the site is forbidden.
  - Other than pre-approved security staff, no workers must be permitted to live on site unless deemed necessary due to the specific project.

#### 9. CONSTRUCTION PHASE

The construction phase covers all activities during construction. There may be overlaps between pre-construction and construction phases. The overlaps may not be used as an excuse for non-compliance with either portion of the EMP.

#### 9.1. Access to the Site

- a. All access to the property must be properly controlled 24 hours a day.
- b. No unauthorised access must be granted to vehicles or persons.
- c. A register of persons and vehicles accessing the site must be maintained and produced on request.
- d. Access roads must be maintained in good conditions.
- e. Vehicle movements must be controlled to avoid congestion, dust generation and road hazards.

## 9.2. Visual Impacts

- a. Screening cloths away from the public must be installed to mitigate any intrusive structures.
- b. Soft or low Lights must be used on site and ensure shine away from the road to avoid light pollution to the surrounding environments and residents.

#### 9.3. Waste Management

- a. Waste generated on the site must be handled appropriately using appropriate receptacles, bin liners, and skips.
- b. Waste generated onsite must be disposed of weekly to Colenso Disposal Site.
- c. All hazardous waste must be sent to a Hazardous Disposal Site. Hazardous wastes include but not limited to fluorescent tubes, oil contaminated material, paints, etc.
- d. Records of waste generated must be kept and be produced on request.
- e. Recycling of waste must be encouraged on site.
- f. Littering is prohibited on-site and off-site.
- g. Burning and burying of waste is prohibited.
- h. No servicing of vehicles is permitted on site.

## 9.4. Water Quality Management

- a. The proximity of, and the distances to all surface water bodies in the vicinity must be established.
- b. A borehole and spring census must be carried out within a one kilometre radius of the site.
- c. The yield of each borehole, their logs and water quality must be supplied.

d. The geohydrology of the proposed site must be assessed by surface mapping, accessing existing information and Geohydrological maps of the area, together with appropriate subsurface investigative measures.

- e. Where appropriate geophysics must be carried out across the site to assist in the identification of faults or to establish if any other geological anomalies exists beneath the proposed site.
- f. The latter boreholes must be utilised for ground water monitoring.
- g. No polluted water or grey water must be disposed-off to the natural environment. All contaminated water and effluent must be disposed-off at the Municipal Sewer System.
- h. The contractor must ensure that no water contamination occur and that strict measures are instituted when such pollution occur.
- i. Polluted water must not come into contact with clean water.
- j. Polluted water must not be flushed down the drains.
- k. The Environmental Control Officer will be responsible for reporting the storage/use of any other potentially harmful materials to the relevant authority.

#### 9.5. Air Pollution - Dust Prevention

- a. Suitable dust suppression measures must be implemented if dust levels rise above acceptable levels, either water or commercial suppressants.
- b. Stockpiles of soil must be covered or have suitable dust suppressant applied during windy days.
- c. Dust generating construction activities must be avoided during strong winds.
- d. Burning of waste is waste is not permitted on site.

#### 9.6. Noise Pollution

- a. Noise levels must be kept within acceptable limits and all operations must meet the noise standard requirements of Occupational Health and Safety Act (Act No 85 of 1993).
- b. All construction activities must be undertaken according to daylight working hours between the hours of 07:00 17:00.
- c. All construction vehicles must be in good working conditions.
- d. Noise reducing instruments such as silencers and side flaps must be installed on construction vehicles and machinery.

## 9.7. Hazardous Chemical Storage and/or Handling

- a. Hazardous substances are those that are potentially poisonous, flammable, carcinogenic, or toxic. Some examples are: diesel, petroleum, oil, bitumen, cement, solvent based paints, lubricants, explosives, drilling fluids, pesticides, herbicides.
- b. All substances required for vehicles maintenance and repairs must be stored in sealed containers until they can be disposed of/ removed from site.
- c. The bund storage must at least have a concrete plinth with a containment capacity 110% to the container being bunded.

d. Spillages from containers must be reported to ECO who in turn must report using the s30 incident form of the Department of Economic Development, tourism and Environmental Affairs, and must immediately notify the said Department.

- e. Ensure that the mixing /decanting of all chemicals and hazardous materials must take place on tray or impermeable surface.
- f. All contaminated soils and materials must be removed and disposed of at the Hazardous Landfill site. A Safe Disposal Certificate must be obtained from be kept on site for record keeping purposes.
- g. Vehicles transporting, placing or compacting concrete, asphalt, or any bituminous product may not be washed on site.

## 9.8. General & Hazardous Substances and Materials

- a. The location of storage sites for material especially hazardous materials must be sited in consultation with the ECO. The ECO must consider logistics, prevailing wind directions, fugitive emissions, and water resources when deciding of locations.
- b. Material must be located with consideration of fire and spillage incidents and to the approval of the Municipality's Fire Department.
- c. Hazardous materials to be stored on site are those that are potentially poisonous, flammable, carcinogenic or toxic. These materials include diesel, petroleum, oil, bituminous products; cement; solvent based paints; lubricants; explosives; drilling fluids; pesticides and herbicides and Liquid Petroleum Gas (LPG). Material Safety Data Sheets (MSDS's) must be readily available on site for chemicals and hazardous substances to be used on site. MSDS's must also include information on ecological impacts and measures to minimize negative environmental impacts during accidental releases or escapes.
- d. Hazardous storage and refuelling areas must be bundled with an approved impermeable liner to protect groundwater quality.
- e. A Method Statement and plans for the storage of hazardous materials and emergency procedures.
- The contractor must ensure that all used oils/lubricants are placed into drums and recycled.
- g. The ECO and the Contractor must ensure that all hazardous materials and substances are reported to Mnambithi-Ladysmith Local Municipality.
- h. The ECO is responsible for reporting all spillages and incidents in a prescribed section 30 of NEMA Form, and to inform Department of Agriculture.
- i. A register of incidents referred to in i) above must be kept on site and be produced on request by officials.
- j. The Environmental Control Officer and Contractor must be responsible for ensuring that potentially harmful materials are properly stored in a dry, secure environment, with concrete or sealed flooring and a means of preventing unauthorized entry. The Environmental Control Officer must further ensure that materials storage facilities are cleaned / maintained on a regular basis, and that leaking containers are disposed of in a manner that allows no spillage onto the bare soil.
- k. The Contractor must ensure that there is available adequate supply of absorbent material to use in emergency spills to deal with at least 200 litres or 200kg of material/chemical/substance spillages on site. All used absorbent together with

spilled material must be disposed-off at a Hazardous Disposal Site and a disposal certificate secured, filed and presented on request by the ECO.

## 9.9. Materials and Stockpile Management

- a. Stockpiles and materials must be stored away from water resources, access roads and wind prone areas of the working area.
- b. Excessive exposure of stockpiles to rain or clean water must be avoided by cloth or other screening material, or berms where appropriate.
- c. Stockpiles must not exceed 2 meters in height unless approved by the Engineer.
- d. Soil stockpiles must be kept free of cement, growing plants and chemicals/oils.
- e. Topsoil's must be used within 6 months of being stripped to avoid dust pollution, water contamination and erosion.

#### 9.10. Staff Conduct

- a. All contractors and sub-contractors must ensure that employees are well behaved on site, in compliance with EMP and other applicable laws.
- b. All employees must undergo Environmental Induction Training, which may be part of Safety Induction, but presented by the ECO.

#### 9.11. Soil Erosion

- a. Soil clearing must be undertaken with great care to avoid unnecessary vegetation destruction on site.
- b. The contractor must avoid removal of vegetation groundcover on steep slopes and inclined.
- c. Remediation of exposed areas must be undertaken as soon as those areas are no longer required for use.

#### 9.12. Storm water Control

- a. Metal grits must be used to cover grains and culverts to prevent soil silting and blockages.
- b. Contaminated water must be treated prior to disposal to the natural water system.
- c. Clean and dirty water must be separated and not allowed to mix.
- d. Material such as soils, stones, rubble etc. must not obstruct natural waterways.
- e. The site manager and ECO must ensure that drains and water ways are not obstructed in anyway by regular inspections.
- f. Storm water attenuation must be practiced on site.
- g. Measures to ensure a net zero increase in run-off as a result of the Project on completions, must be implemented.
- h. Drains must be cleared and cleaned on weekly basis.
- i. No polluted water must be washed or disposed-off in drains.

#### 9.13. Vegetation

a. Damage to vegetation must be kept at minimum and limited to areas required for use only.

- b. A vegetation plan must be developed and implemented in consultation with the Grassland or Horticulturalist to ensure indigenous vegetation is planted on site.
- c. Introduction of alien vegetation and animals prevented.
- d. Re-vegetation and remediation must be undertaken as soon as practically possible to prevent unnecessary exposure to risks of erosion and water pollution.
- e. Screening trees along Forbes Road and on the property boundary must be planted to provide screening function. Only indigenous trees must be used and these must mirror the natural vegetation of the surrounding environment.
- f. Harvesting of vegetation for medicinal, recreational, fire wood, or any other use is prohibited.

#### 9.14. **Vehicular and Traffic Management**

- a. All vehicles must be operated in compliance with the Road Traffic Act.
- b. Safety of passengers, pedestrians, and other road users must be a consideration by all road users in the property.
- c. A speed limit of 20km/hour must be enforced by the Site Manager.
- d. Traffic management must be done in consideration of physical site constraints. dust pollution, safety of road users and property, and general environmental and EMP provisions.
- e. Overloading of vehicles is prohibited.
- f. Unsafe loading of inappropriate material will not be allowed.
- g. Traffic exiting or entering the site to and from Forbes Road will be assisted to do so safely. This may require management of traffic and signalling inside the site.

#### 9.15. **Social Impacts**

The project is likely to have a minimum negative impact on the neighbouring communities.

- a. Any complaints and interactions must be cordial and understanding.
- b. Concerned and complaints of neighbouring communities must be recorded and discussed at site meetings. EMP related complaints must be dealt with by the ECO.
- c. Cognisance must be made of social and economic issues raised by the neighbouring and interested and Affected Parties.

#### 9.16. A Complaint's Register

- a. A Complaints Register must be kept at the site office.
- b. It must have duplicate numbered pages.
- c. The IAAP's need to be made aware of the register and have access to it.
- d. The Contractor needs to appoint a staff member(s) to act as liaison officer for formal consultation with IAAP's.

e. The ECO must check Complaint Register every day to ensure that EMP and Environmental specific complaints are addresses immediately.

- f. A set protocol must be implemented to deal with complaints and communication with stakeholders.
- g. Complaints must be resolved and records of complainant, issues and resolution filed.

## 9.17. Fire Control and Welding

- a. Fire Management Plan must be produced when required and be approved/ accepted by the Municipality's Fire Department.
- b. No cooking or heating must occur on-site other than those specific to building and governed by the OHSA.
- c. Burning of fire belts is the only allowed activity by an appointed person using appropriate methods, at appropriate time of the year, and with adequate equipment to prevent development of wild fires.
- d. Welding must be done in compliance with OHSA Regulations and applicable procedures as may be determined by the Fire Department.

#### 9.18. General Provisions

- a. All unusual disturbances e.g. blasting, traffic closures, etc. must be communicated by the Site Manager to stakeholders including neighbouring communities at least 24 hours prior to occurrences.
- b. Local residents must be given opportunities for employment, and skills development.

#### 10. POST-CONSTRUCTION PHASE

The Post-Construction refers to activities after the construction activities have been completed.

## 10.1. Site Clearance

- a. Construction material and equipment must be removed on site once construction and rehabilitation is completed.
- b. Vegetation and beatification activities must align with the EMP objectives and sustainable development principles.
- c. ECO and the Contractor have to approve all the remediation measures and to ensure that the site has been in compliance with the EMP.

## 10.2. Site Re-vegetation

- a. Remediation by re-vegetation and landscaping of the site would have been in progress throughout the construction phase and will be completed at this stage. On-going management and maintenance will proceed as per the contractual agreement between the Lessor and Lessee's.
- b. All rubble is to be removed from the site to an approved landfill site as per construction phase requirements. No remaining rubble is to be buried on site.
- c. The site is to be free of litter and surfaces are to be checked for waste products from activities such as concreting or asphalting and cleared.

## 10.3. Removal of Barriers, Remediation of Damage

- a. Fences, barriers and demarcations associated with the construction phase are to be removed from the site unless stipulated otherwise by the Engineer.
- b. All residual stockpiles must be removed to spoil or spread on site as directed by the Engineer.
- c. All leftover building materials must be returned to the depot or removed from the site.
- d. The Contractor must repair any damage that the construction works has caused to neighbouring properties.

## 10.4. General Remediation

- a. A meeting is to be held on site between the Engineer, ECO and Contractor to approve all remediation activities and to ensure that the site has been restored to a condition approved by the Engineer, and to the satisfaction of the ECO.
- b. Temporary road works must be closed and access across these blocked.
- c. All areas where temporary services were installed are to be rehabilitated to the satisfaction of the Engineer.

## 10.5. Alien Invasive Programme

An alien eradicate and monitoring programme for the whole study area as this will promote biodiversity in the area and limit the distribution of alien invasive species via water and humans. There are a number of methods to eradicate or control alien invasive species

Method	Description
Mechanical	The removal of species by hand or with appropriate tools,
	instruments and machines
Chemical	The optimal use of herbicides to control target species
Biological	This involves the intentional use of populations of natural enemies of the target alien or invasive species or other methods that adversely affect the biological integrity of the target species
Habitat	This control methods uses measures such as prescribed
management	burning, grazing and other activities
Integrated Pest	This involves a combination of methods above based on
Management (IPM)	ecological research regular monitoring and careful co- ordination

The implementation must involve that:

- a. The areas to be disturbed during construction must be limited.
- b. Careful removal of indigenous plants before construction commences. Plants must be replanted on the study site (as suggested by the landscape architect) as soon as construction is completed.

The best mitigation measure for alien and invasive species is the early detection and eradication of these species. A suggested method of establishing a continual eradication program is:

- 1) The scope of the problem must be assessed and a clearing plan must be established. Funding must be included in the budget to rehabilitate the areas in which alien and invasive species have been removed in order to prevent further destruction to the ecosystem.
- 2) Decide where control must start and how much can be coped with. Remove weeds in the least affected areas and work outwards.

#### 11. OPERATIONAL PHASE

An operational EMPr must be used subsequent to the detailed engineering design and prior to the operation of the proposed Extension of Colenso Cemetery. This operational EMPr must be approved by the Competent Authority prior to the commencement of operations.

#### 11.1. Soil Disturbance and Erosion

- a. The Constructor must ensure that erosion causing activities are controlled in such a manner that prevents erosion setting off on site.
- b. Grounds must be maintained such that no soil loss occur, thereby causing erosion of this natural resource.
- c. The contractor to ensure that all alien invasive plants are removed from all natural and disturbed areas.

## 11.2. Water Quality Management

- a. The proximity of, and the distances to all surface water bodies in the vicinity of the site must be established.
- b. A borehole and spring census must be carried out within a one kilometre radius of the site.
- c. The yield of each borehole, their logs and water quality must be supplied.
- d. The geohydrology of the proposed site must be assessed by surface mapping, accessing existing information and Geohydrological maps of the area, together with appropriate subsurface investigative measures.
- e. Where appropriate geophysics must be carried out across the site to assist in the identification of faults or to establish if any other geological anomalies exists beneath the proposed site.
- f. The latter boreholes must be utilised for ground water monitoring.
- g. No polluted water or grey water must be disposed-off to the natural environment. All contaminated water and effluent must be disposed-off at the Municipal Sewer System.
- h. No polluted water or grey water must be disposed-off to the natural environment. All contaminated water and effluent must be disposed-off at the Municipal Sewer System.
- i. The contractor must ensure that no water contamination occur and that strict measures are instituted when such pollution occur.
- j. Polluted water must not come into contact with clean water.
- k. Polluted water must not be flushed down the drains.
- I. The Environmental Control Officer will be responsible for reporting the storage/use of any other potentially harmful materials to the relevant authority.

## 11.3. Air Pollution – Dust Prevention

- a. All reasonable measures must be taken to ensure that dust generation is minimised.
- b. Dust suppression by regular water spraying must be done.

- c. A 20km/hr. speed limit must be enforced to all vehicles entering the site.
- d. No fires are to be permitted on site except for the burning of firebreaks.

#### 11.4. Storm water Control

- a. Metal grits must be used to cover grains and culverts to prevent soil silting and blockages.
- b. Contaminated water must be treated prior to disposal to the natural water system.
- c. Clean and dirty water must be separated and not allowed to mix.
- d. Material such as soils, stones, rubble etc. must not obstruct natural waterways.
- e. The Centre Manager must ensure that drains and water ways are not obstructed in anyway by regular inspections.
- f. Storm water attenuation must be practiced on site.
- g. Measures to ensure a net zero increase in run-off as a result of the Project on completions, must be implemented.
- h. Drains must be cleared and cleaned on weekly basis.
- i. No polluted water must be washed or disposed-off in drains.

## 11.5. Vegetation

- a. Introduction of alien vegetation and animals is prohibited. Only indigenous plants and vegetation must be used on the gardens.
- b. Screening trees along the Forbes Road and on the property boundary must be maintained for screening function.
- c. Only indigenous trees must be used and these must mirror the natural vegetation of the surrounding environment.

## 11.6. Vehicular and Traffic Management

- a. All vehicles must be operated in compliance with the Road Traffic Act.
- b. Safety of passengers, pedestrians, and other road users must be a consideration by all road users in the property.
- c. A speed limit on internal (i.e. Centre) must be enforced by the Centre Manager.
- d. Unsafe loading of inappropriate material will not be allowed.
- e. Traffic exiting or entering the site to and from Forbes Road will be assisted to do so safely. This may require management of traffic and signalling inside the site.

## 11.7. Social Impacts

The project is likely to have a minimum negative impact on the neighbouring communities.

- a. Any complaints and interactions must be cordial and understanding.
- b. Concerned and complaints of neighbouring communities must be recorded and discussed at Management meetings. EMP related complaints must be dealt with by the Centre Management and communicated to the Department of Agriculture, Environmental Affairs and Rural Developments.

c. Cognisance must be made of social and economic issues raised by the neighbouring and interested and Affected Parties.

## 11.8. A Complaint's Register

- A Complaints Register must be kept at the Centre Manager's Office.
- It must have duplicate numbered pages.
- The IAAP's need to be made aware of the register and have access to it.
- A set protocol must be implemented to deal with complaints and communication with stakeholders.
- Complaints must be resolved and records of complainant, issues and resolution filed.

#### 12. OPERATIONAL REQUIREMENTS AND OPERATIONAL GOALS

The Environmental Impact Assessment identified various issues and concerns that were addressed through the process. Many of the issues need to be mitigated by management procedures and therefore goals need to be set to ensure implementation of these measures. Management activities are described to achieve the objectives together with monitoring and target criteria.

## 12.1. Components of Operational Management

- ✓ Goals: The key environmental goals are set for the operation of the new proposed extension of Colenso cemetery.
- ✓ Objectives: These are set to meet the goals.
- ✓ Risk: If the goal is not achieved.
- ✓ Actions: measures put in place to achieve objectives.
- ✓ Monitoring: to check if the objectives are achieved.
- ✓ Targets: indicators of the effectiveness of the programme.
- ✓ Remedial Action: if targets aren't met.
  - **a. Water** will be supplied from the Municipality. The water from the source will be managed according to water saving principles:
- Capture and use rainwater from gutters and roofs into rainwater storage tanks for individual structures;
- All external taps will only be linked to rain storage tanks to prevent the use of potable (drinkable) water to be used for activities such as gardening and car washing;
- Washbasin and shower taps to be fitted with flow reduction devices, aerators and motion sensors to ensure water conservation and prevent that they can be left running;
- Toilets must be fitted with reduced flow or preferably a duel flush system;
- Re-use household waste water for gardening and/or flushing;
- Washing facilities / toilets for construction team to be provided with flow reduction devised and adequate catchment to contain wash water;
- All hoses to be fitted with trigger gun spray nozzles to limit wastage;
- Dry sweeping of garden and construction gear in preference to washing to limit water consumption;
- Preference must be given to planting only endemic / indigenous gardens and using such for landscaping to minimise water demand;
- Have timed irrigation systems with the focus on the hours when the least evaporation occurs; rain sensors to form part of the irrigation system.
- All drains fitted with grease traps which are included in a maintenance schedule;

 A vehicle wash bay constructed ensures that contaminated water is routed to the correct waste water stream and not storm water systems;

- Only plants adapted to the local climate used in landscaping to reduce the need for excessive watering;
- Storm water catch pits for use in pasture irrigation;
- If biodegradable, non-toxic soaps, shampoos and detergents are used exclusively; these waste water streams can be directed to catch ponds for re-use as irrigation;
- Taps around the cemetery must be fitted with locks to prevent unauthorised use and included on a maintenance schedule to detect and repairs leaks;
- Washing appliances (dishwashers and washing machines) filled only to the minimum level required for effective functioning;
- Appliances used only when sufficiently full to warrant operation;
- Physical brushing or sweeping used in preference to water cleansing wherever possible (e.g. cleaning pathways); and
  - b. **Electricity** will be supplied by the Municipality. Internal reticulation will be according to the appointed Electrical Engineers standards. The following energy saving mechanisms must be implemented:
- Energy saving bulbs in all structures, alternatively use low voltage or compact fluorescent lights;
- Use energy saving geysers;
- Use proper insulation to reduce the need for air conditioning;
- Solar glazing or energy efficient windows to reduce the need for air conditioning;
- Maximise the use of solar heating;
- Structures must be orientated to optimise use of ambient weather and climate conditions for heating and cooling;
- Natural light used wherever possible during the day in preference to artificial light (Trade-off between using large windows for use of sunlight but this may require additional air conditioning);
- Programmed lighting (Especially in low usage areas such as conference halls);
- Cold rooms and freezers fitted with counter-weight doors to ensure that they cannot be left open unnecessarily;
- Multiple boilers to permit the minimum amount of water being heated to supply the labour force; and
- Use of solar heating maximised.
  - c. Sewage Through the above water saving mechanisms the load on the general sewage flow will be reduced and therefore limit the load on the septic tank.
  - d. **Material** Material used during construction or in the life-cycle of the project must be focused on renewable and recyclable elements:
- Select building materials for durability to minimise maintenance or replacement;

- Use standard materials to increase the potential for re-use and re-cycling;
- Materials must be sourced locally where possible; and
- Use recycled shuttering, door and window frames, sanitary ware, concrete aggregate and roofing materials.

## e. Renovations/ building maintenance:

- Paints water based paints used wherever possible;
- Renovations and maintenance planned to minimise the production of waste;
- Waste segregation and recycling planned prior to commencement; and
- Any waste generated segregated to maximise re-use or recycling.

## 12.2. Operational Goals

Six goals were set to ensure no environmental impact during the operation and lifecycle of the project. The following are operational goals:

- ✓ Goal 1: To ensure aesthetic appeal of the site
- ✓ Goal 2: Protection of surrounding environment and Natural Resources
- ✓ Goal 3: To create awareness of waste management and waste minimisation
- ✓ Goal 4: To create awareness of water conservation and sewage
- ✓ Goal 5: To prevent soil and erosion and improve soil conservation
- ✓ Goal 6: To dust and air pollution
- ✓ Goal 7: To secure infrastructure and assets.

Goal 1: To ensu	ıre aesthetic ap	ppeal of the site			
Objective	Risk	Action	Monitoring	Remedial	Resp.
				Action	
Develop site according to guidelines to ensure aesthetic development	A cemetery development that is not sympathetic to the receiving environment	the suggested size per grave plot is 2,5 meters long by 1,5 meters wide.  Allowance must be made for two rows of graves, with an allowance made for a 4m internal distributor road in order to allow easy access to the new graves.  Natural contours and vegetation must be retained	Monitor that each phase is being filled before moving onto the next phase	Penalise individuals who do not comply to guidelines which have been implemented	Municipality
Maintenance of proposed Infrastructure	Infrastructure collapse and dilapidation	Set guidelines for maintenance standards  Maintenance budget and Resources	Quarterly maintenance schedule	Fix all repairs on an on-going basis, and plan major maintenance	Municipality
Maintenance of cemetery – Landscaping is to mitigate possible visual intrusion	Decrease in aesthetic appeal Inappropriate landscaping	Use only indigenous/ endemic water wise plants  Implement guidelines for landscaped area	Prevent alien Vegetation Regular landscape	Remove alien vegetation  Re-scape grounds	Municipality

		surveys		
Poor	Ensure visual screening	Regular	Continuous re-	
scree	ning of	screens	vegetation	
develo	ppment	checks		

Objective	Risk	Action	Monitoring	Remedial Action	Resp.
Management & Conservation of Water Resources	Contamination of water resources  Misuse of water resources	Create contour furrows to redirect water if necessary  Implement water wise management principles and practices  Buffer and furrow maintenance.	Water Quality Quarterly  Water Use Audits, Quarterly	Remove contamination source  Divert water flow.  Implement water saving measures	Municipality
Conservation of sensitive environmental features	Contamination of fauna  Contamination of natural vegetation  Irreversible loss of habitat	Implement buffer areas for drainage lines  No removal of any vegetation unless authorised  Implement alien vegetation control program	Quarterly Vegetation and Fauna Audits	On-going maintenance  Prevention of environmental and biodiversity damage	Municipality

Objective	Risk	Action	Monitoring	Remedial Action	Resp.
To minimise and manage waste on site	Irresponsible waste Management  Pollution of the environment	<ul> <li>Reduce waste produced</li> <li>Re-use resources</li> <li>Educate employees to sort waste</li> <li>Recycle</li> <li>Provide acceptable receptacles</li> </ul>	Monthly records of generated wastes	Penalties scheme	Municipality

Objective	Risk	Action	Monitoring	Remedial Action	Resp.
Responsible & sustainable water use	Water wastage	<ul> <li>Use indigenous plants</li> <li>Water gardens early in the morning or late at night</li> <li>use permeable and semi-permeable hard surfaces</li> <li>Water awareness programme with interpretative signage</li> </ul>	Check usage of ablutions and gardens  Undertake water audits annually	Fix leaks,  Fit appropriate equipment,  Enforce compliance	Municipality

Objective	Risk	Action	Monitoring	Remedial Action	Resp.
Maintenance of natural soils	Soil erosion and loss	<ul> <li>Contours</li> <li>Water run-off management</li> <li>Systematic burial plan</li> <li>Limit overexposure of loose soils</li> <li>Water quality sampling</li> </ul>	Weekly burial plan  Monthly Sampling	Penalties, Enforcement of bylaws	Municipality
Maintenance of baseline water quality	Water pollution	<ul> <li>Contours</li> <li>Water run-off management</li> <li>Systematic burial plan</li> <li>Limit overexposure of loose soils</li> <li>Water quality sampling</li> </ul>	Weekly burial plan  Monthly Sampling	Penalties, Enforcement of bylaws	Municipality

Goal 6: To dust and air pollution					
Objective	Risk	Action	Monitoring	Remedial Action	Resp.
Maintain clean air	Dust pollution	<ul> <li>Dust suppression</li> <li>Systematic burial plan</li> <li>Limit overexposure of loose soils</li> <li>Vehicle access control</li> <li>Vehicle speed limit</li> <li>Vegetation and re-vegetation of burial grounds</li> </ul>	Daily dust monitoring	Penalties, Enforcement of bylaws	Municipality

Goal 7: To secure infrastructure and assets					
Objective	Risk	Action	Monitoring	Remedial Action	Resp.
Control access to the cemetery	Damage, loss and vandalism	<ul> <li>Control access</li> <li>Fencing of the site</li> <li>Vehicle management</li> <li>24/7 security</li> </ul>	Daily monitoring	Penalties, Enforcement of bylaws	Municipality

## 13. COMPLIANCE AND MONITORING

## 13.1. Compliance and Monitoring

a. The monitoring of works on site is necessary to demonstrate compliance with the specifications of the EMP and to allow for problems or issues of non-conformance to be identified and appropriate

- b. Monitoring must include visual checks by the Site Manager on a daily basis, checks on particular requirements for site activities by the ECO, as well as a review of site documentation.
- c. The ECO must complete the performance record at the end of each table above, as a record of transgressions or problems experienced on site, and how they were dealt with.
- d. Monitoring of activities on site by the ECO must be done on a weekly basis.

#### 13.2. Penalties and Incentives

## **Transgression and Penalties**

Transgressions relate to actions by the owner and operating team members whereby damage or harm is inflicted upon the environment or any feature thereof and where any of the conditions or specifications of the EMP are infringed upon.

In the instance of environmental damage, the damage where possible, is to be repaired and rehabilitated using appropriate measures, as specified and undertaken by appropriate specialists, for the account of the contractor or other guilty party. Transgressions are most likely to occur with respect to litter on site, damage or the disturbance of sensitive areas, for example the indigenous vegetation, and erosion.

Issues of non-compliance noted by the ECO are to be communicated to the site operator, who holds the responsibility of ensuring that the relevant parties are made aware of the lack of compliance with EMP specifications, and that appropriate action is taken to rectify the situation. The ECO will advise on appropriate corrective actions when necessary. The Municipality is ultimately responsible for compliance of the EMP.

#### 13.3. Site record

Minutes of meetings on site must reflect environmental queries, complaints, actions agreed upon, dates of eventual compliance and must form part of the official environmental site record. In additions to the summary report, the ECO must keep a monthly photographic record of issues on site and an ad hoc record of incidents or events on site, especially in the case of transgressions from EMP specifications.

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#### 14. EMP VIOLATIONS

EMP violations are a violation of the Environmental Authorisation issued for the project, and are therefore a violation of NEMA provisions.

## 14.1. Contractor and/or Developer

The Contractor is deemed not to have complied with this generic EMP if:

- within the boundaries of the Project Area, during the Construction Phase, adjacent areas and haul/ access roads there is evidence of contravention of EMP clauses, Environmental Authorisation conditions, or any legally issued directive or instruction;
- environmental damage ensues due to negligence;
- he fails to comply with corrective or other instructions issued by the Relevant Authority, Site Manager or Environmental Control Officer within a specified time.
- Failure to take any reasonable measure to protect the environment if there is a perceived or identified environmental risk associated with an activity that has not been defined in the EMP.
- Pollution of land surfaces and air pollution results from construction and related activities.
- The Contractor fails to comply with corrective or other instructions issued by the Engineer within a specified time.
- The Contractor fails to respond adequately to valid complaints from the public.

#### 14.2. Sub-contractor

The Sub-contract is deemed NOT to have complied with the EMP if:

- She violates any part of the EMP whether in stipulated in her contract or not,
- He causes environmental damage due to negligence,
- He fails to comply with directives/instructions of the relevant authority, site manager or engineer, or ECO.
- Fails to respond and act adequately to public complaints.

#### 15. REPORTING ON EMP

## 15.1. Reporting Regime

The following reporting regime will be implemented.

	What	Details, Who, Outcomes	Frequency/ When
1	ECO	The Developer/Contractor appoints ECO and	At least 30 days prior
	appointment	informs DEDTEA in writing of the name and	to construction
		contact details.	activities
2	Safety File	ECO and Developer ensure EMP included in the	At least 10 days prior
	-	Contractors' Safety File.	to construction
3	Baseline Audit	ECO conducts a baseline audit of all	10 days prior to
		environmental assets, conditions, and landscapes.	construction

		A Report is generated.	
4	Inform	The developer must inform DEDTEA in writing on	At least 5 days prior.
	Authorities of	date of starting of construction activities.	
	Intention to		
	Commence with		
	Construction		
5	Complaints	ECO and Contractor develops Complaints	At least 5 days prior to
	Register	Register for the site	Commencement of
			Construction
6	Induction	ECO conducts Environmental Awareness and	On first day of
		Induction of Management, employees, etc. An	construction
		attendance register is generated.	commencement
7	Monthly Audits	ECO conducts monthly audits for the first 3	Every Month-end.
		months of commencement of construction.	Reports to Authorities
		Monthly Audit Reports are produced.	in 14 days.
8	Quarterly Audits	ECO conducts quarterly audits every 3 months for	Every Quarter-end.
		the duration of the construction. Quarterly Audit	Reports to Authorities
		Reports are produced.	in 21 days.
9	Annual Audit	ECO conducts annual audits every 12 months for	Every 12 month-end.
		the duration of the construction. Annual Audit	Reports to Authorities
		Reports are produced.	in 6 weeks.

## 15.2. Contents of the Audit Report

The audit report must typically contain this information:

- Date of the audit;
- Aspects covered;
- Stage of the construction project;
- List of activities undertaken during the reporting period;
- Environmental impacts identified;
- Mitigation measures implemented;
- Corrective actions;
- Violations of the EMP:
- Level of compliance with Environmental Legislation and EMP;
- · Suggestions on the EMP amendments;
- Incidents i.t.o. section 30 of NEMA and other incidents;
- Complaint register entries and resolution of complaints;
- Any other matter of interest to the authorities.

#### 15.3. Environmental Audits

- a. A suitably qualified Environmental Auditor is to be appointed, at the expense of the Developer, to undertake audits of compliance with the EMP. This must happen every 6 months.
- b. Objectives must be to audit compliances with the key components of the EMP, to identify main areas requiring attention and recommend priority actions. The audit

must cover across section of issues, including implementation of environmental controls, environmental management and environmental monitoring.

c. Results of the audits must inform changes required to the specifications of the EMP or additional specifications to deal with any environmental issues which arise on site and have not been dealt with in the current document.

#### 16. AMENDMENTS TO THE EMP

Any major issues not covered in the EMP as submitted must be addressed as an addendum to the EMP, submitted for approval by the Department of Economic Development, Tourism and Environmental Affairs, prior to implementation.

#### 17.CLOSURE

Application for closure certificate when the cemetery has reached its full capacity must be applied with Department of Economic Development, Tourism and Environmental Affairs. However the cemetery can be closed but still need to be maintained to a good condition at all times as it will continue to be used by families for graves visitations.

## 18. APPENDICES TO THE EMPr

- A. Layout Plan (Erf 152, Colenso)
- B. Environmental Authorisation (once approved by DEDTEA)
- C. Final Basic Assessment Report by Environmental Agency (including Appendices)
- D. Other: to be specified.