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**FINAL**

## **ENVIRONMENTAL MANAGEMENT PLAN**

### **WATERLAKE FARM**

**ON SEVERAL PORTIONS OF THE FARM BOSCHKOP 369JR**

**MAY 2006**

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#### LIST OF ABBREVIATIONS

<b>CE</b>	<b>Certified Engineer</b>
<b>EMP</b>	<b>Environmental Management Plan</b>
<b>GDACE</b>	<b>Gauteng Department Agriculture Conservation &amp; Environment</b>
<b>KM</b>	<b>Kungwini Municipality</b>
<b>PL</b>	<b>Project Leader</b>
<b>RA</b>	<b>Resident Architect</b>
<b>ECO</b>	<b>Environmental Control Officer</b>
<b>TLB</b>	<b>Tractor, Load &amp; Backhoe</b>

## 1. INTRODUCTION

The purpose of an Environmental Management Plan (EMP) is to guide the planning and design, construction and operational phases of the development. The EMP is being developed in parallel with the planning and design phase, which enables environmental guidelines and criteria to be incorporated into the detailed design.

These discussions and suggestions will form part and parcel of the contract or agreement between client and contractor, to be included into all agreements with subcontractors and **it will form part of the Home Owners Association, the Section 21 Company Agreement or the legal body constituted to represent all land owners.**

- It will be the responsibility of the contractor to convey all information to all employees, subcontractors or whoever else gains access to the development area during the construction phase.
- During the operations phase - or during occupation by the owners, the responsible legal body will manage and maintain the public areas of the estate.
- The requirements herein described will form part of the rules and bylaws of the responsible legal body, thus also of the Purchase Agreement for each stand being sold.

**The cost for the implementation of this EMP** and all the mitigation measures must be included in the costing exercise for the development, should application for authorization be approved by the relevant authorities. A copy of the relevant section of this report will be forwarded to the local and provincial authorities such as Gauteng DACE, before commencement of construction.

**Note: The following sections of documents will form part of this EMP, and be added into the document when issued to the contractor:**

- Recommendations in the Traffic Impact Study (Annexure A)
- Recommendations as per Geotechnical Report. (Annexure B)
- Architectural Guidelines and Building Regulations (Annexure C)
- Conditions of establishment (Annexure D)

## 2. ROLES & RESPONSIBILITIES

### 2.1 Project Leader (PL) Developer

- The PL will be responsible for overseeing the contract from initiation to completion of construction on each individual erf.
- The PL will appoint a team of contractors, which will be responsible for the construction of the entire project.

### 2.2 Resident Architects (RA)

Only architects approved by the PL will be allowed to work on the project and will oversee the individual contracts between the owners of each erf and the contractors.

### 2.3 Environmental Control Officer (ECO)

The ECO will be appointed at the start of the construction phase and is mandated to do the following:

- Ensure that all contractors/subcontractors/employees are fully aware of their environmental responsibilities. This will take the form of an initial environmental awareness-training program in which requirements of this document will be explained.
- Monitor site activities to ensure that there is minimal environmental impact due to construction activities.
- Conduct a final environmental audit.

### 2.4 Auditing / Inspections

- The appointed ECO on a regular basis, and also ad hoc basis will inspect the site where necessary.
- The PL as well as the contractor's representative will accompany the ECO on site inspections.
- The contractor will use the formats presented in this EMP to report to the PL as to the compliance to this document.

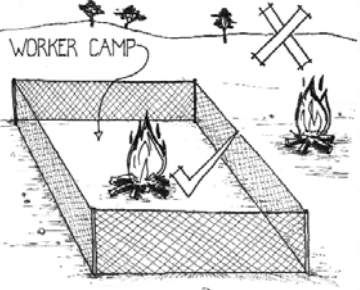

When, in the opinion of the ECO, a construction activity will result in environmental damage, the ECO will issue instructions to the PL, who will in turn

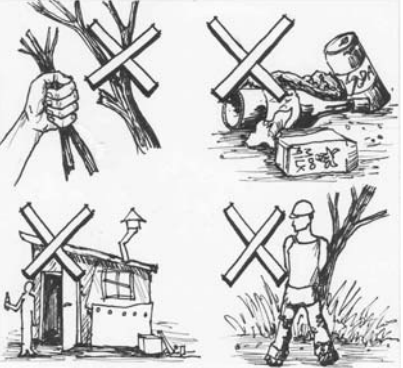

order the Contractor to halt the activity. Spot fines may be levied for non-compliance as per the list attached as Appendix E.

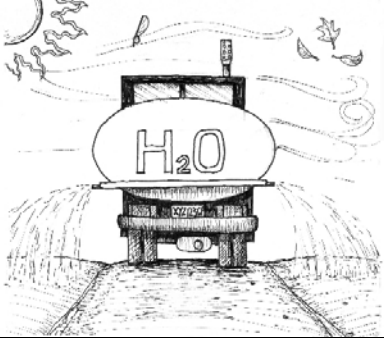
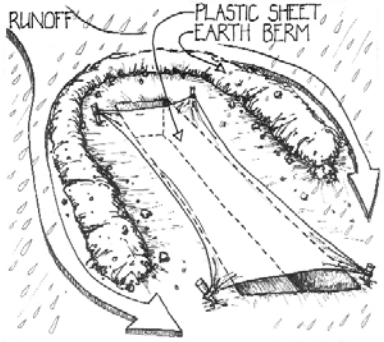
### **3. STANDARDS**

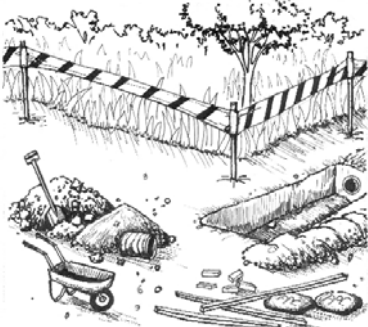
- The ECO will keep written and photographic records of the site and its surrounding before, after and during construction on the site.
- The Contractor will keep records of construction activities, instructions received from the ECO and PL concerning environmental matters.
- The ECO will keep records of cases of non-compliance and remedial actions taken.
- Where no quantitative standards are applicable, visual standards will apply.
- The contractor will rehabilitate the site to a condition acceptable to the ECO, and respond timeously to any complaints and instructions regarding construction activities.

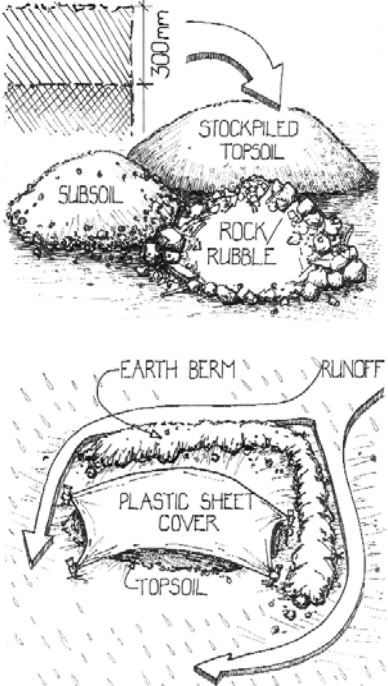
### 3. ENVIRONMENTAL MANAGEMENT PLAN



APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
3.1. Entire construction phase	<p><b>Environmental awareness training</b></p> 	<ul style="list-style-type: none"> <li>• An environmental awareness-training program must be organized as part of the EMP to ensure that each employee knows his/her responsibilities regarding the EMP and the environment in general.</li> <li>• The employees, construction workers and maintenance crews will receive instruction in the appropriate activities that could take place among the natural resources of the area.</li> <li>• Cooking fires must be contained within the construction camp and must be put out with sand after cooking. Prevention of fires must be a priority, and must be stressed to the employees.</li> </ul>	Contractor	
	<p><b>Safety and security</b></p> 	<ul style="list-style-type: none"> <li>• No informal vending or settlement will be allowed on the premises or in the adjacent roads leading to the construction site.</li> <li>• Due to the requirement for security, the construction teams will not be housed on site, and will have to travel to/from site, however a security officer will remain on site for the purpose of guarding the equipment.</li> <li>• The work camp will be fenced and access to and from the site will be restricted to staff only.</li> <li>• No casual access to other areas other than the work camp, and the individual construction site will be allowed.</li> </ul>	Contractor	



APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Pollution</b></p> 	<ul style="list-style-type: none"> <li>• Littering, squatting, using the outdoors as a toilet, trespassing, trapping wildlife and breaking trees or collecting firewood will not be tolerated and are unacceptable actions in the environment. Information will be made available in this regard.</li> <li>• Littering, pollution or vandalism must be spot-fined. Labourers' activities will be restricted to the footprint of the construction areas. Spot fines of up to R100 may be administered if the employees are found to be polluting the area in any way.</li> <li>• Fines will be deducted from an employees' weekly wages if not paid on the spot.</li> </ul>	Contractor	
	<p><b>Noise</b></p> 	<ul style="list-style-type: none"> <li>• The contractor is required by contract to adhere to SABS 1200 and ISO 9000 safety measures during construction on the entire site.</li> <li>• Loud noise and yelling will not be tolerated.</li> <li>• Construction workers will only be allowed on site during normal working hours, and will not be allowed to sleep on site.</li> <li>• Construction may only take place during working hours, e.g. 7am-5pm during weekdays and 7am-2pm Saturdays.</li> <li>• No construction activities may be done on Sundays.</li> <li>• Silencers must be fitted on all construction machinery.</li> </ul>	Contractor	

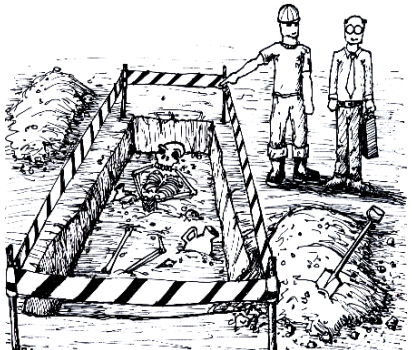
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Dust</b></p> 	<ul style="list-style-type: none"> <li>• Open soil areas must be sprayed with water to settle the dust on a weekly basis or in winter, as suggested by the ECO.</li> <li>• Heavy vehicles must make use of the existing access road when already available.</li> <li>• Unpaved roads where heavy construction vehicles move must be watered down daily to prevent dust pollution.</li> </ul>	Contractor Engineer	
	<p><b>Erosion</b></p> 	<ul style="list-style-type: none"> <li>• Excavate, close and rehabilitate trenches as soon as possible after site services pipes are installed. Avoid open trenches for any extended period of time.</li> </ul>	Contractor	

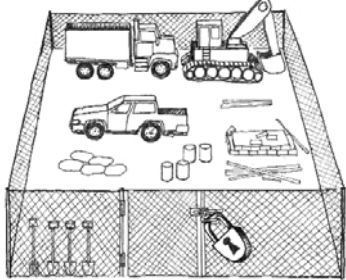
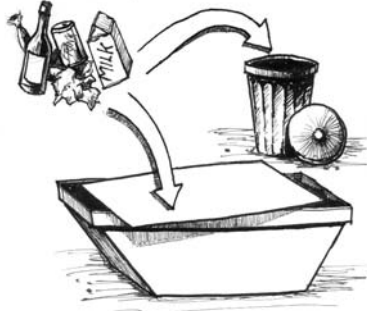
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Loss of vegetation and habitat</b></p> 	<ul style="list-style-type: none"> <li>• Areas where clearance are not allowed will be designated in accordance with the sensitivity map</li> <li>• Any infringement into the sensitive areas will be fined immediately by the ECO and rehabilitation done to a condition acceptable to the ECO.</li> </ul>	Contractor	


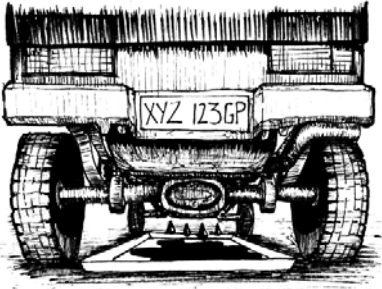
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING DATE & SIGNATURE
	<p><b>Topsoil management</b></p> 	<ul style="list-style-type: none"> <li>• The Contractor is required to strip topsoil together with grass/groundcover from areas where permanent or temporary structures are located, new roads are to be constructed and services are to be installed prior to the commencement of any construction activity</li> <li>• Topsoil stockpiles are not to exceed 1.5 m in height.</li> <li>• Topsoil is to be handled twice only - once to strip and stockpile, and secondly to replace, level, shape and scarify.</li> <li>• Topsoil is to be replaced by direct return where feasible (i.e. replaced immediately on the area where construction is complete), rather than stockpiling it for extended periods.</li> <li>• Topsoil should not be compacted in any way, nor should any object be placed or stockpiled upon it.</li> <li>• These stockpiles are to be vegetated if the material is to be stored for longer than one growth season.</li> <li>• Topsoil is to be stockpiled and protected in such a way and in such a place that it will not cause damming of water or runoff, or wash away itself.</li> <li>• Topsoil stockpiles must be protected from wind and rain erosion through mulching/ wetting/ covering and protected from surface runoff.</li> </ul>	Contractor, CE	


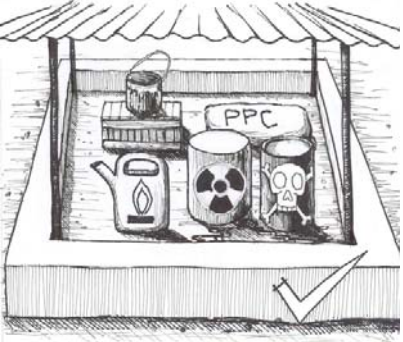
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Vegetation</b></p> 	<ul style="list-style-type: none"> <li>• Alien invader plant species must be removed on a regular basis in an appropriate manner that will ensure permanent removed.</li> </ul>	Contractor	
	<p><b>Increased traffic.</b></p> 	<ul style="list-style-type: none"> <li>• This development will function with controlled access from the Boschkop Road, the main access road as indicated to the contractor by the PL</li> <li>• Security will be maintained on a 24-hour basis.</li> <li>• Access to and from the development will be monitored and casual access will not be allowed</li> <li>• All requirements from the provincial roads and traffic departments must be adhered to and precautionary measures taken to provide safe and effective traffic management.</li> <li>• Deliveries by large construction vehicles may only take place between 9am and 4pm during weekdays.</li> <li>• The access of large trucks will be investigated by the PL to provide a suitable access route that do not become a nuisance to existing residents</li> <li>• Access roads and traffic planning will adhere to all provincial and local government</li> <li>• Only 12 (twelve) trucks at a time will be allowed onto the property, or as agreed to between the PL and the</li> </ul>	Engineer Contractor	


APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
		<p>ECO based on the capacity of the site to carry the number of trucks</p> <ul style="list-style-type: none"> <li>All trucks on site are to be in a proper working order at all times, to prevent soil pollution from oil spills, and to ensure the minimum noise and air pollution.</li> </ul>		
	<p><b>Materials from pits and quarries</b></p> 	<ul style="list-style-type: none"> <li>No borrow pits will be dug on or off site if not approved by the relevant authorities.</li> <li>Daily movement of construction material must be done effectively and must be kept to a minimum required for the construction.</li> <li>Fill material, where required will be obtained from nearby and existing licensed borrow pit operators.</li> </ul>	<p>Contractor</p>	

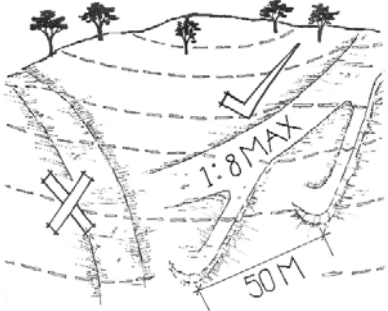
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Protection of cultural or historical features</b></p> 	<ul style="list-style-type: none"> <li>• Any artefact or possible historical or archaeological object found on site will be reported to the PL.</li> <li>• Any burial ground or grave found on site will be reported to the PL.</li> <li>• Any cultural or historic artefacts must be fenced immediately until the PL can communicate appropriate methods of protection to the contractor</li> </ul>	Contractor, CE	
	<p><b>Safety and security</b></p>	<ul style="list-style-type: none"> <li>• Fencing will be allowed during the construction phase of the project to demarcate the boundaries of the construction site and work camp. Erection of the fence must occur with minimal impact on the natural environment.</li> <li>• All negative effects caused by the erection of any temporary fences must be rehabilitated after construction is complete.</li> <li>• A security fence will be installed to surround the entire property; however individual security or fencing will be the responsibility of each homeowner.</li> </ul>	Contractor	

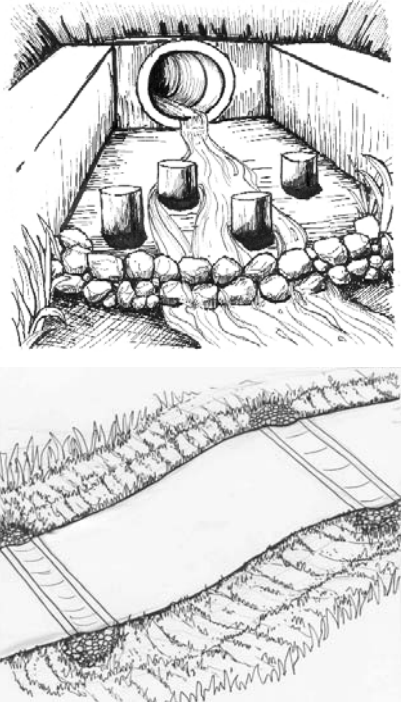
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
<b>3.2. Contractor &amp; Builder's Camp</b>	<b>Construction camp</b> 	<ul style="list-style-type: none"> <li>• A work site will be erected and maintained for storing construction equipment on a non-sensitive area to be agreed upon by the ECO and PL.</li> <li>• The area where the camp was erected must after the construction period be rehabilitated to guidelines in this document.</li> <li>• Working and storage areas will be kept to a minimum, and will except for construction sites, remain inside the fenced areas of the construction camp.</li> </ul>	Contractor	
	<b>Loss of vegetation and habitat</b>	<ul style="list-style-type: none"> <li>• Each contractor must be briefed as to his/her responsibilities, and the Environmental Management Plan (EMP) must form part of the contractor's agreement with the client.</li> </ul>	Contractor	
	<b>Waste management</b> 	<ul style="list-style-type: none"> <li>• Dustbins and a proper refuse area must be designated in the construction camp. No containers or refuse storage areas will be permitted on other areas of the construction site.</li> <li>• Refuse (including construction rubble &amp; alien plants removed) must be removed daily from the site to the refuse area, and be removed weekly to a registered landfill site.</li> </ul>	Contractor	Daily

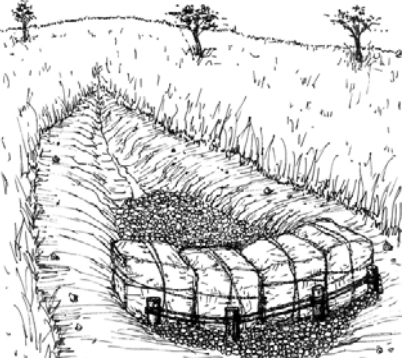
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
		<ul style="list-style-type: none"> <li>• Portable chemical toilets must be installed and maintained at the work camp.</li> <li>• Shower or washing facilities – when provided- must be linked to the existing sewer system – or the runoff water must be drained to an soak-away system as approved by the ECO</li> </ul>	Contractor, CE	
	<p><b>Liquid waste</b></p> 	<ul style="list-style-type: none"> <li>• It will be the responsibility of the contractor to ensure that no fuel spillage occurs. The contractor will be responsible for the removal, cleaning and replacement of any soil contaminated with fuel from construction vehicles or machinery.</li> <li>• Drip trays must be placed under each construction vehicle when it is not in operation at all times.</li> </ul>	Contractor	

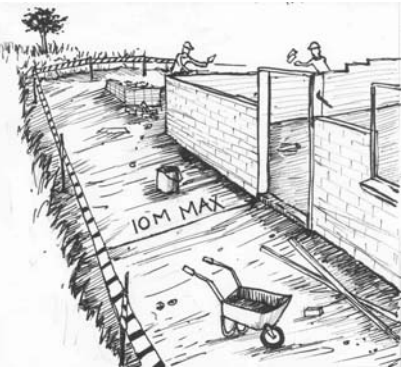
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Surface water management</b></p>  <p>SANDBAGS/EARTH BERM PLASTIC LINER</p>	<ul style="list-style-type: none"> <li>• Runoff produced by aggregate washing, concrete mixing and curing should be regulated by erosion control measures and allowed to dissipate slowly into the soil, away from any watercourse or seepage zones.</li> <li>• Concrete mixing may only take place within the footprint area of structures, so as to prevent any runoff outside the perimeter of the site.</li> </ul>	Contractor	
	<p><b>Storage of hazardous chemicals</b></p>  <p>PPC</p>	<ul style="list-style-type: none"> <li>• All fuels, hazardous chemicals and materials, including cement, paint and solvents must be stored in a containment area with a concrete slab floor and 500mm high walls to prevent spillage.</li> </ul>	Contractor	

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
<b>3.3. Establishing access roads</b>	<p><b>Loss of vegetation and habitat</b></p> 	<ul style="list-style-type: none"> <li>• Access &amp; construction roads must be established in areas that are already disturbed, such as where exotic vegetation has been removed, or established tracks wherever possible.</li> <li>• The areas adjacent to the access roads must rehabilitate according to guidelines of this document after construction phase has ended.</li> <li>• Where surface changes are anticipated (such as roads, paving or structures), topsoil must be removed and stored during the construction phase.</li> <li>• It must be kept weed free and will not be used as fill material.</li> <li>• The topsoil must be spread in the areas requiring rehabilitation and planting after construction.</li> <li>• The earthworks required for roads, services &amp; each building must be limited to the immediate surroundings of the structure.</li> <li>• These will be clearly staked and checked prior to work commencing to prevent any unnecessary movement of soil.</li> </ul>	Contractor, CE	

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Earthworks/ cut and fill</b></p> 	<ul style="list-style-type: none"> <li>• Roads must be constructed parallel to contours and not perpendicular, as far as possible.</li> <li>• Maximum slope for the majority of roads must not be more than 1:8 or 12%. Short sections could be steeper.</li> <li>• During construction and prior to asphalt roads being built, cut-off swales have to be constructed perpendicular to the construction of access roads to prevent washout conditions. The cut-off swales must be constructed so as to substantially slow runoff and allow infiltration.</li> <li>• Natural storm water must not be piped other than in areas where it runs perpendicularly cross a roadway.</li> </ul>	CE	

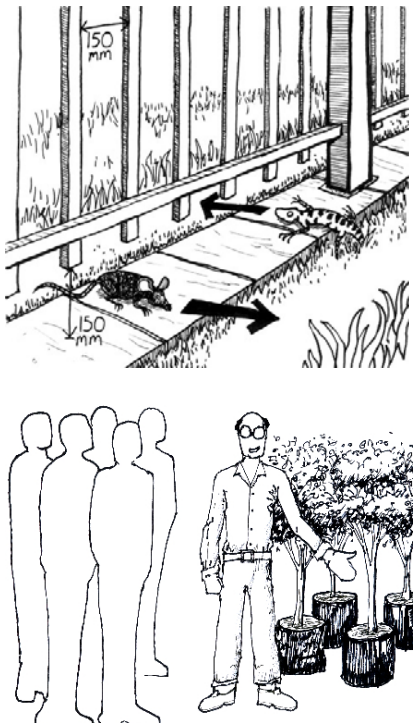
APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
3.4. Storm water management	<p><b>Erosion</b></p> 	<ul style="list-style-type: none"> <li>• Drainage channels must be constructed along access roads every 50m to divert runoff during construction period.</li> <li>• Stored topsoil and reseeded must be used to rehabilitate all open soil areas after construction.</li> <li>• Erosion caused by construction methods or unusually heavy rainstorms must be prevented and managed by building retention swales and cut-off swales to direct the water to shallow slow flowing slope.</li> <li>• Erosion caused by severe rain storms must be rehabilitated as soon as possible after damaged has been done.</li> <li>• Where erosion may potentially occur, dissipaters such as gravel beds or straw bales must be installed to prevent erosion.</li> <li>• All areas degraded due to erosion prior to site establishment must be rehabilitated to a reasonable condition as approved by the ECO.</li> <li>• No site clearing will be allowed on steep areas of the property.</li> <li>• Any sign of erosion on the site must be reported to the PL and the proper remedying action taken to prevent further erosion.</li> <li>• All hard surfaces on steep areas will be buffered with swales to ensure the retention of water close to point of origin and to slow the rate of runoff.</li> </ul>	Contractor	


APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
		<ul style="list-style-type: none"> <li>• Straw bales must be placed and adequately secured on all downhill locations where erosion may occur to prevent washouts and to retain siltation and topsoil from the site.</li> <li>• Energy dissipaters (gabions/grass bales etc.) must be installed at all potential large flow volume areas, especially during the construction phase where large areas will be open soil.</li> <li>• Natural storm water must flow freely, either as sheet flow or where necessary in open grass swales, to allow for infiltration and retention.</li> <li>• The engineer's service report will also specifically address storm water to the satisfaction of the Local Council. This report will only be set up once the development has been approved.</li> <li>• This storm water design (as per civil engineers) for all hard surfaces will ensure the proper management and precautionary measures are taken into account.</li> </ul>		

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
<b>3.5. Construction of residences</b>	<b>Loss of vegetation and habitat</b> 	<ul style="list-style-type: none"> <li>• Mark off access routes, building sites and storage areas for the construction phase.</li> <li>• Keep construction activities limited to the area immediately surrounding the structure being built</li> <li>• Designate specific areas for plant &amp; equipment storage, concrete mixing etc.</li> <li>• Site clearance &amp; construction activities must be strictly limited to the specific footprint of each dwelling plus a maximum of 10m around such footprint.</li> <li>• A land surveyor for each site will set out such a footprint, after it has been positioned by the ECO and the architect, .</li> <li>• No gardening will be allowed outside the individual erven– natural veld will surround each erf.</li> <li>• The EMP will be included into the management body rules, which is in turn part of the purchase agreement on each stand.</li> </ul>	Engineer	
	<b>Impacts relating from service installation</b>	<ul style="list-style-type: none"> <li>• Where services run in soil areas, topsoil will be removed and stockpiled.</li> <li>• Topsoil will be re-introduced to original ground level after services have been fully installed.</li> <li>• Where services run over rocky areas, blasting will be prevented as far as possible – if blasting is required, it will be covered blasting.</li> <li>• Hand labour and in extreme cases a TLB will be used to excavate trenches outside the road reserve, as an excavator has to great a footprint impact.</li> </ul>	Engineer Contractor	
	<b>Negative effect on visual character</b>	<ul style="list-style-type: none"> <li>• Materials are specified under the Architectural Guidelines to compliment the aesthetic character of the area.</li> <li>• A limited number of architects as indicated by the PL or the Developer, who have a thorough understanding of the project, will be working on the</li> </ul>	Owner Contractor	

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
		<p>project.</p> <ul style="list-style-type: none"> <li>• All materials must be stored in a designated area as appointed by the PL.</li> <li>• Certain height restrictions and no-building zones will be laid down to protect the visual character for adjacent landowners.</li> <li>• All changes to structures will be subject to Aesthetic Committee approval.</li> <li>• Owners must abide by the Architectural guidelines that have been drawn up to control the materials and designs of houses to be built</li> <li>• Only endemic or where approved by the ECO indigenous plantings may be planted, which will in the long run improve the visual character of the area.</li> <li>• Care should be taken to preserve view lines from dwellings onto adjacent properties.</li> </ul>		

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
3.6. Construction of Residences	Visual impacts of the development	<ul style="list-style-type: none"> <li>• Restrictions on building heights and architectural principles must be laid down, to prevent contextually inappropriate styles such as the “corporate tuscan” style in which an entire development looks the same. Architectural guidelines must specify styles that are appropriate to the rural setting of the site.</li> <li>• All houses and other buildings are to be built in such a way that as little site topography alteration as possible is necessary.</li> <li>• Where buildings are built on steep areas of the site, the retaining walls must be kept to a minimum and the plinth must preferably match the ground level at the street side.</li> <li>• Retention walls are to be avoided wherever possible. Where this is not possible, retention walls must be constructed of materials and in a fashion that is aesthetically acceptable in the context of the site. Planted retention walls and/or construction using rock removed from the site during construction are recommended.</li> <li>• Colours must be chosen that resemble those of the surrounding natural landscape.</li> </ul>		
3.7. Construction of Residences and Operational Phase	Impacts arising from gardening	<ul style="list-style-type: none"> <li>• In order to preserve the ecological link between the development and adjacent properties, open fencing between properties are preferred.</li> <li>• The S21C Home Owners’ Association will be responsible for ensuring the protection of fauna &amp; flora outside the individual erven during the operations phase of the project. Any queries or potential problems will be directed to the ECO.</li> <li>• Only the areas inside the individual erven will be transformed.</li> <li>• It will be the responsibility of each individual owner to</li> </ul>		

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
		<p>remove any alien plants from his/ her erf.</p> <ul style="list-style-type: none"> <li>• Where owners do not remove such plants, it will be done by the S21C Home Owners' Association, at the expense of the individual owner.</li> <li>• A preferred indigenous plant species list will be set up by the Home Owners' Association, although indigenous gardening will not be enforced. However no species listed as weeds by the Conservation of Agricultural Resources Act 43 of 1983 (including any future updates of the list) will be allowed on any part of the development and where they occur, must be removed by the individual owners, or the Home Owners Association.</li> <li>• Fencing on the exterior property boundary must be transparent to allow movement of animals.</li> <li>• Artificial habitat creation for wildlife must be implemented on the conservation portions of the estate. This will include nesting and feeding structures for small animals and birds as well as rehabilitation of natural vegetation areas disturbed during construction.</li> </ul>		

APPLICABLE ACTIVITY	IMPACT	MITIGATION MEASURES:	RESPONSIBLE PERSON	SCHEDULING ECO DATE & SIGNATURE
	<p><b>Decline in small mammal population</b></p> 	<ul style="list-style-type: none"> <li>• The property management structure will be responsible for ensuring the protection of Fauna &amp; Flora during the operations phase of the project. Any queries or potential problems will be directed to the ECO.</li> <li>• No gardening will be allowed outside the individual erven – natural veld will surround each erf.</li> <li>• No free roaming domestic pets such as cats and dogs will be allowed.</li> <li>• Artificial habitat creation for wildlife is recommended to be implemented on the site. This will include nesting and feeding structures for small animals and birds as well as rehabilitation of natural vegetation areas disturbed during construction.</li> </ul>	Contractor Owner	
3.8. Operational phase	Active management of the property	<ul style="list-style-type: none"> <li>• Exotic vegetation will be removed on a regular basis by the owners' management body in the private open space areas of the development.</li> <li>• It will be the responsibility of each owner to remove exotic alien species on a regular basis on their individual sites.</li> <li>• The owners management body will have the right to remove alien plant species at the account of the owner, should the owner fail to do so.</li> <li>• The development will be properly fenced to prevent illegal squatting, hunting, trapping of animals, littering and pollution and promote the survival of small mammals.</li> </ul>	Contractor, Owner	