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ENVIRONMENTAL MONITORING REPORT NO.31

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS



OUTENIKUASBOSCH

The Wildlife Village

Compiled by:

HilLand Environmental

Reference:

MOS24/455/127

Report Period:

March 2024

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

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Copies to:	Petrie van Zyl – Move It Civils (Contractor) Charl Moller – Charl Moller Consulting Engineer Pieter van Zyl – Outeniquasbosch HOA

Report compiled by: Stefan Delport and Jennifer Teifel– HillLand Environmental

Report reviewed by: Cathy Avierinos & Stefan Delport – HillLand Environmental

Environmental Monitoring Report No. 31

This report monitors compliance against the Environmental Management Plan (Ref.: MOS22/455/48). This monitoring report constitutes the 31st Environmental Monitoring Report and covers inspections done during **Marh 2024** for:

Action:	Phase:	Comment:
Civil service installation / construction	9 & 19 (School site)	Civil services installation of Phase 9 has started. Bulk earthworks of the school site (phase 19) have started.
Housing construction	1, 2, 3, 4, 10, 11, and 13	Individual housing construction monitoring are done once a month and reported on twice a year (January & June/July). Concept building plans are submitted to the ECO for comment to ensure compliance with the environmental requirements. ECO introduction email and the EMPr is then sent to the owner and contractor followed by environmental induction with staff on-site.

General notes:

- Weekly ECO monitoring site inspections during civil services installation / construction, and monthly during individual house construction.
- This ECO report covers compliance monitoring for all works to date in terms of the EMPr and the EA in relation to civil services installation.
- Commencement of **all listed activities** for the development (including the Resort zone) has taken place in accordance with the EA. The main road to the resort area has been constructed and the decking at the first resort unit complies with the aesthetic requirements.
- Garden and private rehabilitation areas of each erf must be approved by the landscaping committee to ensure compliance with the EMPr and EA. This is to avoid property owners planting exotic or invasive plants in their garden or private rehabilitation area.
- The HOA's Landscaping committee will assist with and oversee the approval of individual home gardens as well as landscaping and rehabilitation of the development nodes internal green/open spaces.

ECO monitoring site inspection for **March 2024**:

Date:
1 March 2024
8 March 2024
14 March 2024
28 March 2024

SECTION A – CIVIL CONSTRUCTION ECO MONITORING

The following EMPr monitoring checklist is for the civil installation phase(s) – **Phases 9 & 19** (school site). The table lists the level of compliance with notes/comment where relevant.

EMPr Requirements	Level of Compliance	Comments/ Findings	Photos (is applicable)																																		
CONSTRUCTION PHASE																																					
Environmental induction																																					
All contractors (civil and housing) must be briefed during environmental induction.	Compliant	Environmental induction is done prior to the start of construction.	 HillLand Environmental Environmental Assessment Practitioners 188 Mount View, Victoria Heights PO Box 590, Gqekeke, 6000 Western Cape, South Africa Tel: +27(0)48 889 0229 Fax: +27(0)48 543 5348 Mobile: +27(0)82 2596 559 E-mail: info@hilland.co.za www.hilland.co.za OUTENIKUASBOSCH ENVIRONMENTAL INDUCTION REGISTER DATE: 08/03/2024 School PROJECT: 455 <table><tr><th>NAME & SURNAME</th><th>SIGNATURE</th></tr><tr><td>Stefan Delpu (ECO)</td><td></td></tr><tr><td>Josias</td><td></td></tr><tr><td>Sally</td><td></td></tr><tr><td>Takana</td><td></td></tr><tr><td>Claver</td><td></td></tr><tr><td>Zuma</td><td></td></tr><tr><td>Pearo</td><td></td></tr><tr><td>Jason Bick</td><td></td></tr><tr><td>John</td><td></td></tr><tr><td>David</td><td></td></tr><tr><td>Suzi</td><td></td></tr><tr><td>Shak</td><td></td></tr><tr><td>Yanek</td><td></td></tr><tr><td>Alison</td><td></td></tr><tr><td>Johnson Vette</td><td></td></tr><tr><td>Brighton</td><td></td></tr></table>	NAME & SURNAME	SIGNATURE	Stefan Delpu (ECO)		Josias		Sally		Takana		Claver		Zuma		Pearo		Jason Bick		John		David		Suzi		Shak		Yanek		Alison		Johnson Vette		Brighton	
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All areas outside that of the defined works (roads and pipeline routes) are deemed as no-go areas. These areas have to be properly demarcated to prevent any construction encroachment.	Compliant and ongoing	NO-GO areas are discussed with the contractor, pegged by the surveyor and works are confined to the demarcated area. Construction haul routes must be demarcated (painted stones is recommended) to avoid machinery/delivery vehicles from driving in the veld.	
Should access be required through a no-go area, permission must be obtained from the ECO in writing prior to the use of such an area.	N/A	Nothing reported to the ECO or noted by the ECO during site inspections.	

Animal rescue strategies should be implemented prior to bush clearing when the site is surveyed. The ECO must sign off areas prior to earthworks commencing.	Ongoing	Plant search and rescue must be done (entire development phase is recommended) prior to clearing of vegetation for installation of services (sewer, water, roads etc.). Topsoil (windrows) must be protected for the duration of the construction phase.	
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Plant rescue and rescue before physical construction starts. - no indigenous vegetation may be cleared from site without the prior approval of the ECO		No harm to any animals were reported to the ECO or noted during ECO site inspections.	
Topsoil Stripping			
Topsoil must be stripped from all construction areas before work commences. This topsoil should be stockpiled for use in rehabilitation and landscaping and must not be contaminated with other building/construction materials. The vegetation roots are to be removed together with the top 20cm of topsoil and are to be stockpiled for use during the rehabilitation phase.	Ongoing	Topsoil of the road surface has been stripped and stockpiled to use in rehabilitation. Topsoil of the sewer/water etc infrastructure must be stockpiled on one side of the trench and replaced back on top once installation is complete.	 Stormwater berm between phase 11 & 12 completed

Specific Requirements from Forestry			
Trenches for sewage and water pipes running through forested areas, must be dug manually wherever possible.	N/A	Not applicable for phases 9 & 19.	 Trenches are closed and not affecting any forested areas (phase 9)
All steps must be taken to preserve as much as possible indigenous trees, e.g., trees may form an integral part of a development.	N/A	Not applicable for phases 9 & 19.	
Heritage requirements			
Should any heritage remains be exposed during excavations or any actions on the site, these must immediately be reported to the Provincial Heritage Resources Authority of the Western Cape, Heritage Western Cape (in accordance with the applicable legislation).	Compliant / N/A	Nothing reported to the ECO or noted by the ECO during site inspections.	
Contractors Camp Site and Management			

The contractors' camp site must be in an area indicated and approved by the ECO for this purpose and must be totally fenced off from the game.	Compliant	Phase 9 site camp – same site camp location that was used for phase 4. Site camp is demarcated with concrete barriers and green shade netting.	
Portable ablution facilities (chemical toilets) are to be provided at the camp site for the use of the staff. Additional facilities are to be always provided closer to areas of work.	Compliant	There are sufficient ablution facilities located at the site camp and construction site (phase 9 & 19).	
A fenced off area must be created within the site camp for refuse and waste management as indicated above. ECO to inspect for compliance.	Ongoing	Although the current activity (civil services installation) does not generally produce much waste, the contractor should make sure that there are sufficient waste bins at the site camp.	
Burning is not permitted as a disposal method for the entire property.	Compliant	No burning noted.	

Any concrete batching areas are to be approved by the ECO prior to utilization and must be equipped with suitable settling ponds and trapping mechanisms to ensure that contaminated water does not leave the restricted area.	Action Required	The cement batching area (stand mixer) in Phase 9 must be bunded to avoid contaminated water wash into the natural vegetation or stormwater network. This was reported to the contractor on the WhatsApp group and immediately actioned – soil berm was created.	
Any temporary haul roads or access roads for construction need to be maintained at all times by the contractor including demarcation, dust monitoring and management etc.	Ongoing	The main temporary haul route used to access Outeniquasbosch is maintained well (dust suppression/demarcated with painted stones). Construction haul routes must be demarcated (painted stones is recommended) to avoid machinery/delivery vehicles from driving in the veld.	
Storm Water Management			
Erosion control mechanisms must be in place during each stage of the construction phase.	Ongoing	Currently no stormwater related issues on site. Silt fences and stormwater deflection/energy dissipation will be required when the stormwater outlets are connected to the stormwater system - not yet applicable. Permanent stormwater management are included in the EMPr (swales/berms).	 Construction of the stormwater inlet structure

In the event of erosion damage or silt movement, the contractor is responsible for the clean-up required to reinstate the conditions to normal.	Outstanding Phase 4	Phase 4 erosion damage still needs to be fixed and rehabilitated – soil berms/swales will be constructed as per the EMPr.	
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REHABILITATION SPECIFICATIONS CONSTRUCTION AREA (CIVIL INSTALATIONS)

Rehabilitation specifications are outlined in **Section 9** of the EMPr and will be monitored/inspected by the ECO prior final site handover.

- Removal of all in situ contaminated material (cement, concrete, bricks etc.)
- Replacing the topsoil from stockpile area (at least 20 cm depth)
- Seeding with a stabilizing seed mix, which will rapidly bind the soil.
- Replanting plants from the plant rescue nursery (upon approval of a landscaping plan).
- Removal of the shad cloth screen around the disturbed area only after the vegetation has re-established.

The rehabilitation and re-establishment of disturbed areas is critical to the success of this development. These disturbances could be in the form of areas exposed and destabilized during construction. Rehabilitation must occur concurrently with the phased construction progress to ensure that no areas are left exposed. Rehabilitation activities must form part of the construction phase - rehabilitation must follow all construction activities.

SECTION B – OPERATIONAL PHASE ECO MONITORING

ECO monitoring of the Operational phase related activities (fire management, game management, landscaping & waste management)

Operational phase	
Conditions and requirements	Comments and request
Fire Management	
The fire breaks are to be maintained along the property boundaries and the internal irrigation system is in place for fire management as the rehabilitation of Grootbrak Dune strandveld thicket between the residential clusters is not a fire driven ecosystem and as such fire needs to be excluded from this area. No burning of waste on ANY PART of the Estate is permitted.	Firebreaks along the external property boundary of the development are in place. The private rehabilitation zone doubles as the firebreak of each property with the necessary irrigation system as required in terms of the Architectural Guidelines.
Game Management	
The Game Management Plan covers the required aspects relating to this matter (Annexure 11).	Developer and HOA to ensure that all "rules for residents regarding game" are complied with.
Landscaping design	
General landscaping guidelines as stipulated in Landscaping Guidelines document are to be followed to ensure that the correct vegetation is planted as listed in the plant list. Note that any new plants that are not on the plant list must be approved by the Landscape committee (and ECO) to make sure that indigenous vegetation is planted (with the exception of exotic plants which is limited to private courtyards and in pots). This together with a garden designed in such a way as to use water sparingly will be required. The irrigation water provided by the estate is to be used for rehabilitation and landscaping and	The Landscaping committee will monitor compliance with the plant list and garden/landscape guidelines. A master landscape/rehabilitation plan will be created for the entire development (around the development nodes) and will be implemented by the HOA/developer. Individual owners are making use of the irrigation water provided. The visual and noise windbreak barrier has not yet been planted along the western boundary, this will be implemented in due course.

potable water should not be used for this purpose. In order to limit the visual and noise impact from the adjacent quarry a windbreak barrier will be planted along the western boundary and will be registered in terms of NEMBA.	
Waste Management	
An integrated waste management approach must be used that is based on waste minimization and which includes reduction, recycling, re-use, and disposal where appropriate. During the operational phase refuse must be in scavenger and weatherproof bins and be moved to the designated collection point for the municipal removal in accordance with the rules set in place by Outeniquasbosch or the municipality. Recycling initiatives should be adopted by the entire state. Sorting at source (within the home) is required. Collection policy is defined in Annexure 15.	The blue, green and black bag system is in place and the HOA is currently collecting the waste bags and deliver to the nearest waste disposal facility.

1. CONCLUSION & RECOMMENDATIONS

Phases 9 and 19 civil installations are ongoing, and the developer and contractor are compliant with the EMP.

The contractor is aware that the road verges and stormwater swales/berms in phase 4 must still be completed.