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ENVIRONMENTAL MONITORING REPORT NO.28

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS



OUTENIKUASBOSCH

The Wildlife Village

Compiled by:

HilLand Environmental

Reference:

MOS23/455/110

Report Period:

October 2023

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 28
OCTOBER 2023**

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Submitted to:	DEADP (George) Dryer van Zyl – Owner / Developer ZEC4 (Pty) Ltd
Copies to:	Petrie van Zyl – Move It Civils (Contractor) Charl Moller – Charl Moller Consulting Engineer Pieter van Zyl – Outeniquasbosch HOA

Report compiled by: Justin Brittion and Stefan Delport – HillLand Environmental

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

Environmental Monitoring Report No. 28

This report monitors compliance against the Environmental Management Plan (Ref.: MOS22/455/48). This monitoring report constitutes the 28th Environmental Monitoring Report and covers inspections done during **October 2023** for:

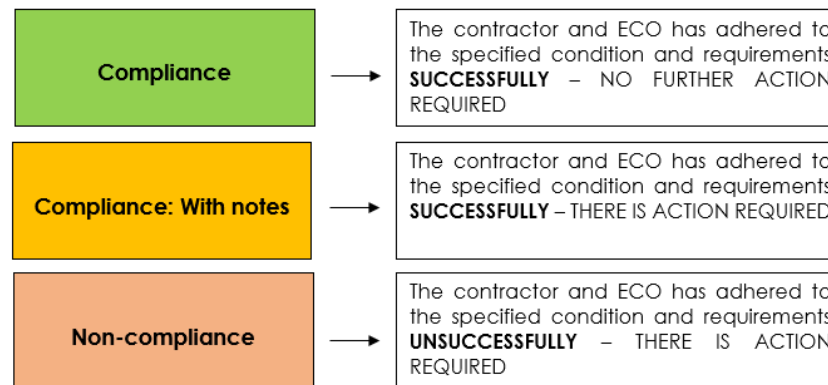
Action:	Phase:	Comment:
Service installations	12 and 14	Phases 12 and 14 are monitored during civil installations. Phases 4, 11, and 13 are monitored for rehabilitation. Phase 12 civil services installation is nearing completion.
Housing construction	1, 2, 3, 4, 10, 11, and 13	The Operational phase - It is now important to ensure that all construction areas are demarcated appropriately to prevent any unauthorised entry or accidental injury (residents and animals). All effort should be made to ensure that the estate is always kept neat and tidy, this includes litter, construction rubble and management of invasive alien plants and weeds.

General notes:

- **Weekly** ECO monitoring takes place during **civil** services construction phase, and **monthly** during individual **house** construction.
 - **Section A - civil services construction phase** ECO report – Monthly reporting.
 - **Section B – individual houses construction phase** ECO report – bi-annual reporting.
- 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 (and ECO) 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. The ECO is part of this HOA committee to ensure that there is always compliance with the EMPr and EA.

1. SECTION A – CIVIL CONSTRUCTION ECO MONITORING

The following serves as an interactive checklist, compiled by the ECO, and directed to the management of **civil installations**. Different colours represent the level of compliance, whereby compliance with notes and non-compliance require action.



EMPr requirements	Phase 12	Phase 14	Comments / Findings	Action required
SPECIFICALLY REQUIRED ENVIRONMENTAL MANAGEMENT PRACTICES				
Environmental induction				
All contractors (civil and housing) must be briefed during environmental induction.			There has been no need for environmental induction during this monitoring period:	No further action required.
Demarcation of NO-GO areas				
NO-GO areas must be properly demarcated to the satisfaction of the ECO. This may include the use of any material agreed upon by the ECO (e.g., silt fences).			Phases 12 & 14: Civil installation is done within the demarcated (as pegged by the surveyour) development area. Conservation corridor between phases 12 and 14 have been demarcated with painted wooden stakes. Phase 12 site camp is within a previously disturbed area.	Construction haul routes to be demarcated to prevent operators and delivery drivers from going off the dedicated haul route. No new routes/tracks were created during this reporting period.

All people working on site must be made aware of the boundaries in which work is to be done.					The NO-GO areas are known. (Constantly raise awareness in toolbox talks)	No action required.
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.					To be approved by the ECO, should it be required.	No action required
Fauna and flora						
Animal rescue strategy should be implemented prior to bush clearing when the site is surveyed. The ECO must sign off areas prior to earthworks commencing.					Nothing reported to the ECO during this reporting period.	No action required
Plant search and rescue is required before physical construction start - no indigenous vegetation may be cleared from site without the prior approval of the ECO.					Plant search and rescue programme to continue ahead of any new services installation. Rescue material is relocated within the estate as directed by the ECO.	No action required
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.					Phase 12 civil installations are complete, and rehabilitation is in progress. Bulk earthworks in phase 14 is done and civil services installation is near completion. No need for topsoil excavation as noted by the ECO.	No action required Rescued topsoil to be reused.
From The Department Environment Forest and Fisheries (DFFE)						
Trenches for sewage and water pipes, running through forested areas, must be dug manually wherever possible.					Sewage and water pipes installation is complete.	No action required
All steps must be taken to preserve as much as possible indigenous trees, e.g., trees may form an integral part of a development.					No indigenous trees are disturbed without the approval of the ECO and farm management. No issues noted or reported.	No action required
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					No heritage remains have been exposed during this report period.	No action required

Cape, Heritage Western Cape (in accordance with the applicable legislation).							
CONSTRUCTION MITIGATION REQUIREMENTS							
Contractors site management							
The contractors' campsite is to be set up in the area indicated and approved by the ECO for this purpose and must be fenced off from the game.						Site camps are within ECO and management approved locations at phases 4 and 12 – phase 4 site is less active. The site camps areas must be rehabilitated once construction is complete.	Site camp in phase 12 must be disassembled and disturbed area rehabilitated to the satisfaction of the ECO.
This site camp must be within an area that is within the construction / development area.						The active site camps are within the construction area.	No action required.
Portable ablution facilities (chemical toilets) are to be provided at the camp site for use of the staff. Additional facilities are to be always provided closer to areas of work.						There are ablution facilities at the phase 12 site camp and throughout the construction site. No incidents have been recorded so the facilities as deemed efficient.	No action required
A fenced off area must be created within the site camp for refuse and waste management as indicated above. ECO to inspect for compliance.						There is no fenced area for the waste. The waste (cement bags paver rapper etc.) are generally stored in the container or in a drum	It remains the responsibility of the contractor to ensure that the construction area is kept clean.
Burning is not permitted as a disposal method for the entire property.						No incidents have been recorded.	No action required
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.						Currently, cement/concrete mixing are done within the road surface or non-permeable wooden sheet.	No action required.
Any temporary haul roads or access roads for construction need to be always maintained by the contractor including demarcation, dust monitoring and management etc.						The main temporary haul route used to access Outeniquasbosch is maintained well. Construction haul routes to be demarcated to prevent operators and delivery drivers from going off the dedicated haul route.	Construction haul routes to be demarcated to prevent operators and delivery drivers from going off the dedicated haul route.

					Haul route next to Monte Christo was closed off and rehabilitated – ripped, seeded and soil berms.	
Stormwater and erosion management						
The use of erosion control mechanisms such as erosion berms, silt fences, rows of onion bags, mulch, brushwood and deflection bars (the choice depending on the situation), is essential in all exposed areas and where slopes are steep, as runoff can cause erosion.					The appropriate mitigation methods are in place. Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright.	Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright.
It is the responsibility of the contractor digging a trench to ensure that the erosion control measures are in place throughout the period of risk (i.e., until backfilled and stabilised).					Trenches are backfilled. Erosion protection at the open trenches must be maintained.	The contractor needs to ensure that erosion control measures are in place when digging/excavating.
In the event of erosion damage or silt movement, the contractor is responsible for the clean-up required to reinstate the conditions to normal.					All stormwater outlets must be monitored and silt buildup to be removed as well as silt washed beyond the silt fence into green spaces (and rehabilitated).	Ongoing maintenance of the silt fences – keeping it clean, remove silt and make sure they are upright. Remove silt in the conservation area (by hand)

1.1. PHOTOGRAPHIC RECORD OF CIVIL CONSTRUCTION COMPLIANCE

This section includes photographic record of ECO site inspections for October 2023 - **phase 12** and **phase 14**.

Phase	Photographic record	Comment and requests
12		Construction has ended in phase 12 and rehabilitation has started. It is the contractor's responsibility to ensure that rehabilitated areas are stable (no erosion).
12 & 14		High precipitation was recorder during this monitoring period. <u>Request:</u> Ensure that all stormwater outlets are fixed with appropriate mitigation (clean and upright silt fences have been proven to be effective).

		
14		Sidewalks are being installed in phase 14.

1.2. REHABILITATION SPECIFICATIONS FOR THE CONSTRUCTION AREA

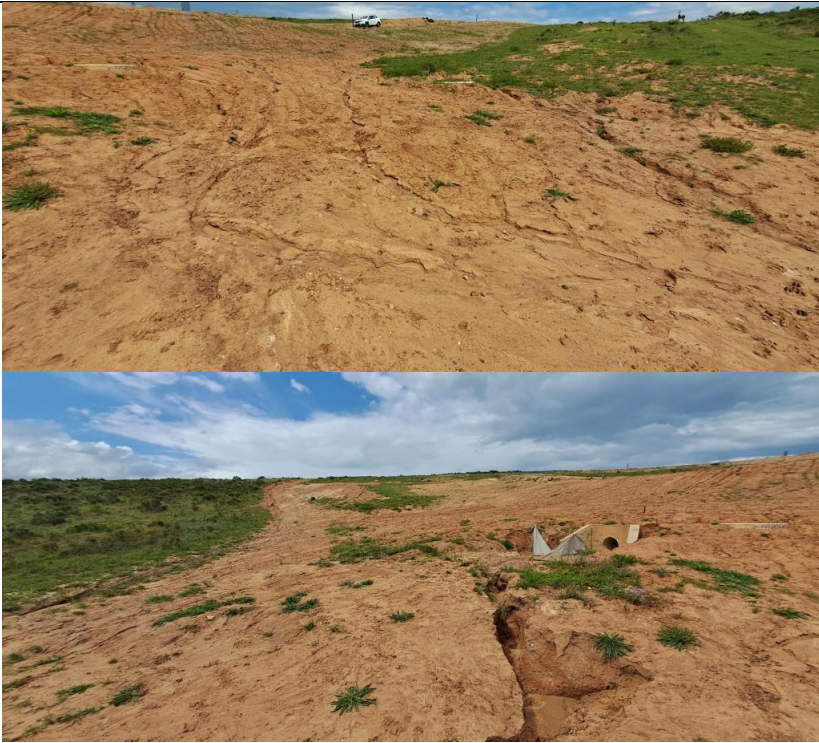
During the monitoring period of September 2023, phase 12 and phase 14 were under civil construction. Phases 4, 11, and 13 currently have no further civil construction activities and initial rehabilitation was done. The rehabilitation of phase 12 and 14 (sections) are in progress,

- Rehabilitation entails the following, but not limited to:
- Backfill and/or shape to the natural slope of the area (erven next to road / road verge / stormwater outlet / berm etc);
- Replace the stockpiled (rescued) topsoil back on top;
- Revegetate and spread the indigenous grass seed mixture (seed should be lightly raked in or covered with topsoil);
- Install erosion protection – silt fences / sandbags / mulch filled sausages

Rehabilitation is not a once off activity as there will be a need for a few follow-up checks after storm events etc., and before the indigenous vegetation / grasses have established to cover and bind the soil.

Phase 4 – Stormwater earth berm requires additional erosion protection. Soil berms/detention ponds were recommended by the developer/engineer – to be implemented.

Phase	Photographic record	Comment and requests
4		Phase 4 – rehabilitation progress of the stormwater channel.
4		Phase 4 stormwater berm to be repaired.

4		Surface erosion on phase 4 road verges and erven – to be rehabilitated.
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2. CONCLUSION & RECOMMENDATIONS

The contractors are aware of the environmental regulations mentioned in the EMPr (Environmental Management Plan). Currently there are no record of no-compliance regarding civil installations in **phase 12** and **phase 14**. Rehabilitation of erosion damage in phase 4 to be addressed.

It is recommended that contractors conduct regular toolbox talks with their staff and remind them of the environmental requirements.

ECO monitoring for during **October 2023**

Date:	Comment:
6 October 2023	Houses construction and landscaping and civil services installation
12 October 2023	Houses construction and civil services installation
20 October 2023	Houses construction and landscaping and civil services installation
26 October 2023	Houses construction and civil services installation