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ENVIRONMENTAL COMPLIANCE MONITORING REPORT NO.12

FOR

**OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS**

CIVIL SERVICES INSTALLATION (PHASE 10) & HOUSE CONSTRUCTION



Compiled by:

HilLand Environmental

Reference:

MOS22/455/34

Report Period:

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 12
JANUARY 2022**

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Environmental Monitoring Report No. 12

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This monitoring report constitutes the 12th Environmental Monitoring Report and covers inspections done during January 2022 for the **civil services installation of Phase 10 & 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.

Weekly ECO monitoring takes place during civil services construction phase (**phase 10**) and monthly during individual **house** construction.

The **Operational phase has started** with some residence residing permanently within Outeniquasbosch. 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.

1. Environmental Induction

Environmental induction was done with the following house contractors in **February 2022**.

Erf/Plot no.	Date:
Erf 6592	2 February 2022
Erf 6543	2 February 2022
Erf 6581	2 February 2022
Erf 6575	2 February 2022
Erf 6609	2 February 2022
Erf 6604	2 February 2022
Erf 6582	2 February 2022
Erf 6616	2 February 2022



2022.02.02 – Environmental Induction done with construction teams.

2. NO-GO Demarcation

No-Go areas were discussed during the environmental induction.

Demarcating open trenches have been disused and the owner requires the following:

- Game generally stays away from excavations and therefore the main focus regarding demarcation of excavations relate to person safety. Ongoing monitoring of the game movement and activity is the responsibility of the owner and demarcation must be installed upon instruction from the said owner.
- No go Demarcation (green shade netting) for each home building site **must** be in place and maintained.
- The temporary construction haul road to phases 3 and 10 (next to **Mafunyane Street**) is demarcated with small piles of stones next to the road.



2022.02.02 – All properties **must** be fully demarcated with green shade netting.

3. Fauna and Flora

The civil and building contractors have to ensure that no harm or damage is done to any fauna or flora during active construction periods. Harm or damage can be mitigated by conducting a survey of the area to be excavated or cleared to ensure that no animals or plants are affected.

A plant search and rescue are to be arranged with the ECO if there are any plants within the specific site that require rescue – **no plant search and rescue was required during this reporting period.**

Ongoing eradication of listed invasive alien plants receives ongoing attention.

- Alien invasive plant species as a result of construction (all phases) activity must be removed. The developer/management team must ensure ongoing alien plant eradication.
- *Datura stramonium* (Stinkblaar) throughout the site is targeted.



Team is busy with Stinkblaar eradication.

4. Soil & Site Management

The contractors should note that the topsoil must be kept separate from any other subsoil or construction material to prevent contamination.

- No issues noted during the reporting period.
- Topsoil is replaced and re-vegetation/seeding of the stormwater outlets are now required (refer to rehabilitation section)
- Dust mitigation measures (keeping the roads wet) are implemented when dust becomes an issue.



2022.02.02 – Ongoing construction of Mafunyane Street.



All construction rubble must be removed, and the area must be rehabilitated before completion.



2022.01.27 – Sandbags are used for stormwater management in phase 10. Final shaping and rehabilitation will be done once the sidewalks are completed.

5. 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). Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from Heritage Western Cape. Heritage remains include: archaeological remains (including fossil bones and fossil shells); coins; indigenous and/or colonial ceramics; any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features; rock art and rock engravings; shipwrecks; and graves or unmarked human burials.

A qualified archaeologist must be contracted where necessary (at the expense of the applicant and in consultation with the relevant authority) to remove any human remains in accordance with the requirements of the relevant authority.

- No heritage remains have been discovered to date.

6. Construction Site Camp

Contractors (civil and house construction) must provide ablution facilities for all construction personnel working on the site. One facility for every 15 persons on site is required.

- Toilet facilities are available for the civil contractor's staff and at each home building site.



2022.01.27 – Ablution facilities and storage container for house construction staff – **each site has its own toilet.**



2022.02.02 – skip or litter bin must be covered to prevent litter from blowing away.

A fenced off area must be created within the camp site for refuse and waste management as indicated above. ECO to inspect for compliance.

- Adequate litter bins are to be provided at the site camp; littering should be covered in regular "toolbox" talks with all staff members.

No accommodation of contractors or their staff except for a night watchman is permitted on site.

- No accommodation on site.

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.

- Civil construction - No issues with regards to runoff water was noted.
- Home construction – cement mixing is to be contained to within the disturbance footprint and on a non-permeable layer (wooden sheet/plastic etc) to prevent soil contamination.
- **Ready-mix trucks are not allowed to be washed on site.**
- Sidewalk contractor – non-permeable layer must be used under the stand mixer to prevent runoff water or spillage in undeveloped erven.

Any temporary diesel storage tanks are to be secured with adequate bunding to cater for spillage and leakage

- No fuel is being stored on site to the knowledge of the ECO.

There should be a secure access point to the construction site in order to ensure that no unauthorized entry is permitted which may lead to a safety or security risk.

- Access to Outeniquasbosch Eco Estate is controlled through access-controlled gates/booms.

Any temporary haul roads or access roads for construction need to be maintained at all times by the contractor.

- The contractor is maintaining the current construction haul road. Please be reminded that driving off the designated haul roads or access roads **is not permitted**.
- Construction vehicles must **abide to the speed limit** as this is a wildlife estate with animals roaming freely.
- The temporary haul road is demarcated with stones.

7. Rehabilitation at stormwater outlet structures

The following rehabilitation recommendation relates to the completed stormwater outlet structures within **phase 10** which was discussed and agreed at a previous site meeting – the estate management is busy with rehabilitation:

- Create small soil or stone berms across to slow the flow of the surface water;
- Sow the indigenous grass seed mixture on the side slopes and above the structure areas;
- Mulch filled onion bag (or similar) pegged along the contours, to the side slopes (where steep)
- Estate Management - ongoing maintenance of the stormwater outlets are to be done.

Indigenous grass seed mixture:

Equal parts of: **2g/m²** Kweek grass (*Cynodon dactylon*) seed and **2g/m²** Oulandsgras/Weeping Love Grass (*Eragrostis curvula*) seed (approximately **4g/m²**) that is to be sown over loosely raked soil.

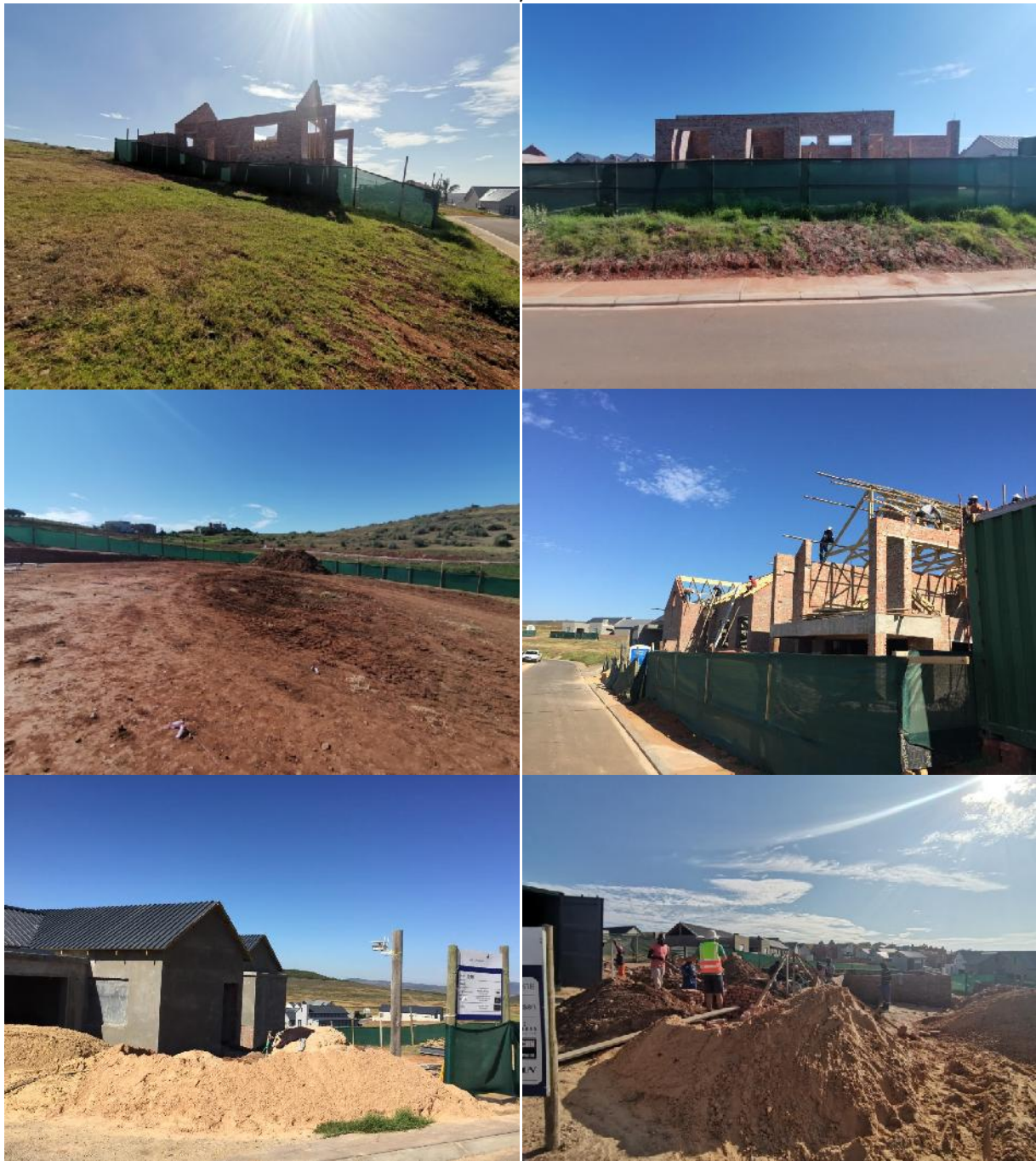


2022.01.27 – Stormwater outlet (phase 10) additional rehabilitation recommended (see Section 7) - **the estate management is continuing with rehabilitation**

8. Individual House construction

Monthly ECO inspection of house construction was done on **2 February 2022**. Photographic record of site visits below.

Phases 1, 2 and 3



Construction zone is to be demarcated with green shade netting.

Completed houses





The contractors must be reminded that all construction rubble, cement, and litter must be removed before construction is complete



-) Individual houses are built as soon as their plans are approved.
-) Environmental induction must be done with all staff on each site.
-) Full boundary demarcation must be installed around each building envelope and maintained – this is to ensure that the construction related activities remains in the dedicated space AND to prevent game from entering the construction site during inactive periods (weekends etc)
-) Landscaping is done in accordance with the Architectural guidelines.

9. Conclusion

No environmental damage or issues noted during ECO site inspections.

The contractors are aware of the environmental requirements and are complying. It is advised that the contractors (civil and home building) do regular toolbox talks with all staff members with special focus on **littering and cigarette** butt disposal. The **building** contractors are also reminded to ensure that the No-Go demarcation and safety netting is maintained to ensure that no animals get injured.

ECO monitoring for during **January 2022**

Date:	Comment:
13 January 2022	ECO site inspection of the Civil contractor
20 January 2022	ECO site inspection of the Civil contractor
27 January 2022	ECO site inspection of the Civil contractor
2 February 2022	ECO site inspection of the Civil contractor and individual houses