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ENVIRONMENTAL COMPLIANCE MONITORING REPORT NO.11

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS

CIVIL SERVICES INSTALLATION (PHASE 10) & HOUSE CONSTRUCTION



Compiled by:

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Report Period:

November and December 2021

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 11
NOVEMBER AND DECEMBER 2021**

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Submitted to:	Luxolo Kula – DEADP (Cape Town) Dryer van Zyl – Owner / Developer ZEC4 (Pty) Ltd
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Environmental Monitoring Report No. 11

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This monitoring report constitutes the 11th Environmental Monitoring Report and covers inspections done during November and December 2021 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.

A friendly reminder to owners, management and the contractors to please ensure that the following is in place prior to closing down for the festive season 2021/2022:

- J Ensure that all demarcations are in place and maintained to prevent any unauthorised access to the site during the shutdown period;
- J Ensure that all hazardous material are stored/locked away appropriately;
- J Ensure that ALL stockpiles are stable and protected from erosion where necessary (wind or water);
- J Ensure that any steep slopes and areas susceptible to erosion are secure and stable at all times;
 - o It is advised that you use filled sandbags at the foot of the slope/within erosion gullies or mulch filled onion bags staked along the contours of the slope to decrease the likelihood of any soil erosion.
- J Ensure that all plant and machinery remaining on site have suitable drip tray underneath;
- J Ensure that ALL litter and construction material waste is removed from site and disposed of at an approved waste site.
- J Ensure that there is no material that can blow away (plastics) and that if excessive dust is anticipated that the necessary shade netting / woodchips to prevent wind-blown sand movement is in place.
- J In the event of heavy rain and erosion over the Christmas shutdown, please ensure that there is someone on standby to come and place the necessary sand bags / do the necessary repairs.
- J Feel free to call Cathy Avierinos on 082 558 6589 or send a WhatsApp in the event of an **emergency** for assistance and guidance.

1. Environmental Induction

Environmental induction was done with all Civil contract staff on-site in **March 2021** and **14 October 2021** with the curb sub-contractor (LNJ Civils). The contractor must notify the ECO when new staff is to start on site to arrange an environmental induction session.

Environmental induction for the individual houses **was** done as follows:

Erf/Plot no.	Date:
Erf 6540	11 August 2021
Erf 6606	11 August 2021
Erf 6607	11 August 2021
Erf 6572	6 August 2021
Erf 6573	6 August 2021
Erf 6578	6 August 2021
Erf 6594	6 August 2021
Erf 6642	6 August 2021

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.

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 must be considered high priority to prevent the spread of any of these species.

- 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) was noted on the stockpiles near the new sewer pump station.



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.



2021.11.11 – Ongoing construction of the roads in phase 10.



2021.12.09 – Ongoing construction of the roads in phase 10.



2021.11.11 – The temporary haul road to phase 10.



2021.11.18 – The ongoing construction in phase 10 (civil services).



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.



Ablution facilities are provided for construction staff.



2021.11.05 – Litter must be picked up to prevent it from blowing around in the wind – **was reported to the contractor and daily litter picking is done.**



2021.12.09 – Ablution facilities for home construction staff – **each site has its own toilet.**

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.
- (Civil contract) Please ensure that the plastic rapping of cement bags, brick, curbs etc are stored of in a bin/skip that is covered.

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.

- Concrete mixing for the curbs area done in the road surface. 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 at the 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.





2021.11.05 – Stormwater outlet (phase 10) additional rehabilitation required - **the estate management is busy with rehabilitation**

8. Individual House construction

Monthly ECO inspection of house construction was done on 9 December 2021. Photographic record of site visit below.

Phases 1, 2 and 3





Construction zone is to be demarcated with green shade netting.



Completed house – rehabilitation recommendations were given to the contractor



Skips are used for construction rubble



Construction rubble was removed, and topsoil replaced. Indigenous grass seed mixture recommended.



Construction rubble and cement to be removed before construction is complete (Erf 6607 – December 2021)



December 2021

The ECO liaises with each contractor on rehabilitation measures before the final completion report is submitted to the HOA for each house.

-) **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 **November and December 2021**

Date:	Comment:
5 November 2021	ECO site inspection of the Civil contractor
11 November 2021	ECO site inspection of the Civil contractor
18 November 2021	ECO site inspection of the Civil contractor
9 December 2021	ECO site inspection of the Civil contractor & House construction