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ENVIRONMENTAL COMPLIANCE MONITORING REPORT 01

FOR

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



Compiled by:

HilLand Environmental

Reference:

MOS19/455/01

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ending October 2019

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OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT #01
OCTOBER 2019**

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Submitted to: Luxolo Kula DEADP Ministers office
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D Jacobs – V3 Consulting Engineers
N vd Merwe – Entsha Henra

Environmental Monitoring Report #01

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This monitoring report constitutes the 1st Environmental Monitoring Report for inspection(s) done during from commencement of groundwork and preparation (November 2018) and civil service installation June 2019 – October 2019

Please consider the following table with regards to outstanding or actionable items noted during ECO site inspections:

Actionable Items Arising from Inspection		
Section	Item	Person Responsible
Section 2	The contractor should ensure that No-Go netting is maintained on a regular basis	Entsha Henra
Actionable Items Outstanding from the previous inspection		
Item		Person Responsible
N.T.R		N.T.R
Ongoing Items		
Regular toolbox talks to be done with regards to littering and cigarette butt disposal.		Entsha Henra
Local labour statistics to be submitted to the ECO on a monthly basis.		Client
Ongoing removal of invasive alien plants (mostly weeds stimulated by earthworks) as they grow.		

****All items marked with priority are to be reported back to the ECO within 14 days****

Groundwork preparation and setting out of the first phase roads took place in November 2018. Preparation of storm water detention ponds and installation of civil services for phases 1 and 3 commenced in June 2019. The construction of roads for the resort and deck at the first unit commenced in September 2019.

This ECO report covers compliance monitoring for all works to date in terms of the EMPr and the EA.

ECO monitoring takes place monthly or weekly where necessary depending on the activities taking place.

1. Environmental Induction

Environmental induction was given to all staff members before commencement of any construction activity on 26 November 2018, 10 June 2019 and 16 July 2019.

- *The contractor should notify the ECO one week in advance of when new staff members will start on site to arrange for environmental induction.*



26 November 2018 – Environmental induction prior to commencement on site



Environmental Induction with all new staff members on 16 July 2019.

2. NO-GO Demarcation

No-Go demarcation, as approved by the ECO, is in place. The ECO monitors maintenance and adherence to the demarcation during site inspections.

- *The contractor should ensure that No-Go netting is maintained on a regular basis.*



No-Go netting in place as approved by ECO.



Regular maintenance of No-Go netting is required to ensure safety of staff and game.

3. Fauna and Flora

The contractor has 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 to ensure that no animals or plants are affected.

- Ongoing monitoring by contractor and ECO during civil construction phase
- No dogs to be brought to site by the contractor as this is an operational game farm.
- Alien invasive plant species as a result of construction activity to be removed before construction is completed – This is dealt with as the alien vegetation is spotted



Construction area is pegged out to illustrate work area.



Fauna and Flora are only being affected at construction areas.



Bung beetle in work area relocated to adjacent vegetation.

Alien invasive plant species to be removed before construction is completed – Stinkblaar (Datura stramonium)

4. Soil Management

Topsoil should be stripped and stockpiled away from the active construction area. The contractor has removed the topsoil layer at the current construction areas to the satisfaction of the ECO and has stockpiled the material at the approved sites. The contractor should note that the topsoil should be kept separate from any other subsoil material to prevent contamination.

- Topsoil should be placed on top of any subsoil when filling trenches – The contractor complies with this.
- The contractor is continually ensuring that dust monitoring is being done - A water truck is used to apply water spray to the haul roads.



Topsoil is kept separate from subsoil.



Topsoil has been placed on top of the subsoil.



Water truck spraying water on haul roads.



Topsoil is being replaced as top layer.



Construction of the main road to the resort area.

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. Home and / or Unit Construction

Architectural requirements are to be adhered to at all times during the planning and construction of any infrastructure in Outeniquasbosch.

Each construction node is to be screened off with a well secured shade cloth fence around the immediate building footprint. This will retain the work area and prevent game from wandering into the construction areas and injuring themselves during the construction period.

- No homes have been constructed to date (first transfers expected in November/December 2019, first homes are currently being designed for plan approval in early 2020).
- Decking at the first resort unit complies with the aesthetic requirements



Decking at first resort unit

7. Local Labour & Material

All casual labour and semi-skilled labour should be local to Mossel Bay area.

Where possible materials should be sourced locally or within the Garden Route District. Where not possible due to availability or price, records need to be retained to motivate purchase from outside the Garden Route District.

All records are to be kept and should be submitted to the ECO on a monthly basis.

Henra Labour figures

Classification	Numbers & % Local to Mossel Bay	Numbers and % from Southern Cape (Mossel Bay)	Number & % from outside Southern Cape
Semi skilled	14 (85%)	1 (5%)	2 (10%)
Operators	7 (77%)	2 (23%)	-
Artisans	-	5 (100%)	-
Management	1 (20%)	4 (80%)	

8. Construction Site Camp

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

- Portable toilet facilities are available on site.



Onsite chemical toilets

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 available at the site camp and throughout the site, littering should be covered in regular "toolbox" talks with all staff members.



Litter bins are available through the site; please ensure that all staff are aware of these bins and that they are reminded to make use of them.

No accommodation of contractors or their staff with the exception of 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 is being mixed on plastic sheets to reduce contact with the ground.



Concrete is being mixed / stored on a non-permeable layer.

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.

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 the site is controlled through locked gates.

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.

9. Health and Safety

Health and safety applies to those working on site as well as those using / passing through the site.

- Health and Safety requirements are being adhered to and are monitored by the Health and Safety consultant.

10. Stormwater Management

Ensure proper management of storm water outlet to minimise erosion and pollution potential.

- There are currently no problems with stormwater management.
- Storm water detention ponds handled the storm conditions well and showed their efficiency.
- Engineers requested to revisit all the storm water proposed on site to ensure that similar damage as occurred at neighbouring Monte Christo as a result of storm water pipes and concentration will not be repeated on site.



29 September 2019 storm damage from neighbouring Monte Christo estate – retaining wall collapsed onto the game fencing.



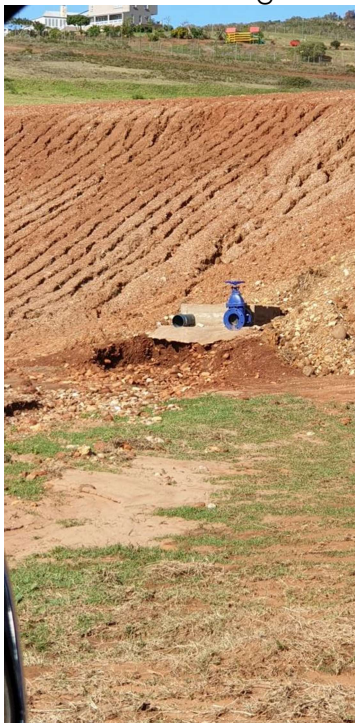
Storm damage to paved roads at neighbouring Monte Christo – resulted in the change in design of the roads from paving to asphalt surface.



Storm water detention dam filled with storm and slowly released the peak of the flood.



Existing storm water dam handled the flood without incident.



Overflow retention release pipe (left) and controlled retention release pipe (right).

11. Rehabilitation

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 of the storm water dam walls is in progress with plant rescue material.
- Rehabilitation of all construction areas within first phases due to now commence as the work is nearing completion



Plant rescue and rehabilitation

12. Conclusion

The contractor is aware of the environmental requirements and is in compliance with it. It is advised that the contractor do regular toolbox talks with all staff members with special focus on littering and cigarette butt disposal. The contractor is also advised to ensure that the No-Go demarcation and safety netting is maintained to ensure that no animals get injured.

Commencement of all listed activities for the development has taken place in accordance with the EA and work is progressing well.

Programme for continuation of the next phases will be released in due course.

The Mossel Bay Park Run now takes place every Saturday at Outeniquasbosch, allowing public access and use and enjoyment of the area. Contractors are ensuring that the site is safe for public access.