



HilLand Environmental

Environmental Assessment Practitioners

166 Mount View, Victoria Heights
P.O. Box 590, GEORGE, 6530
Western Cape, South Africa

Tel: +27(0)44 889 0229
Fax: +27 (0) 86 542 5248
Mobile: + 27 (0) 82 5586 589
E-mail: info@hilland.co.za
www.hilland.co.za

Version 2

ENVIRONMENTAL COMPLIANCE MONITORING REPORT 03

FOR

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH
217, HARTENBOS

HOUSE CONSTRUCTION AND CIVIL SERVICES INSTALLATION



Compiled by:

HilLand Environmental

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July to December 2020

ISSUED BY:

HillLand Environmental

PO Box 590

George, 6530

Tel: 044 889 0229

Fax: 086 542 5248

E-mail: cathy@hilland.co.za / admin@hilland.co.za / environmental@hilland.co.za

Website: www.hilland.co.za

OUTENIKUASBOSCH, FARMS OUTENIKUASBOSCH 149 AND HARTENBOSCH 217, HARTENBOS

**ENVIRONMENTAL MONITORING REPORT NO 3
JULY TO DECEMBER 2020**

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Submitted to:	Luxolo Kula DEADP Ministers office
Copies to:	Dryer van Zyl – owner / developer ZEC4 (PTY) LTD
	Deon Brand – Outeniquasbosch

Environmental Monitoring Report No 03

This report monitors compliance against the Environmental Management Plan (Ref.: MOS18/455/01). This monitoring report constitutes the 3rd Environmental Monitoring Report for inspection(s) done during July 2020 and December 2020 for individual house construction and civil services installation of Phase 3.

Construction of individual houses within phase 1, 2 and 3 have commenced and is ongoing as new plots are sold and developed. Preparation and groundwork of storm water detention ponds and installation of civil services (including tar road) for phases 2 commenced in June/July 2020.

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

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 while houses are being constructed. The civil contractor (phase 2) has completed the rehabilitation phase and ECO monitoring was done weekly for the duration of this phase.

1. Environmental Induction

Environmental induction was given to all civil construction staff members before commencement of any construction activity on 30 June 2020 (phase 2 – civil services installation) and 26 October 2020 (Main access road) and to all individual house construction on:

Erf/Plot no.	Date:
6639 (92)	13 January 2020
6634 (87)	2 March 2020 & 11 March 2020
6558 (11)	19 June 2020
6590 (43)	30 June 2020
6557 (10)	7 October 2020
6619 (72)	22 September 2020
6641 (94)	22 September 2020
6644 (97)	7 September 2020
6544 (119)	7 October 2020
6557 (10)	7 October 2020
6631 (84)	11 November 2020

- Outeniquasbosch notifies the ECO when a new building contractor is to start with construction. An Environmental Induction is done before construction commences on each site/erf.



30 June 2020 – Environmental induction prior to commencement on site (Phase 2)



Environmental Induction with all new staff members on Erf 6544 on 7 October 2020.



26 October 2020 – induction was given to construction staff members of the main access road contractor.



11 November 2020 – induction was given to the construction staff members of Erf 6631.

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 civil contractor should always ensure that the No-Go demarcation is maintained.*
- *Building contractors must ensure that the necessary shade cloth netting demarcation is always in place and maintained.*



No-Go demarcation indicating the work zone.

Erf 6558 – No-Go demarcation in place and well maintained.

3. Fauna and Flora

The civil 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 of phase 2
- 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



Open trenches were demarcated appropriately.



Erf 6590 – Indigenous plants were planted in the open space south of the house according to the approved landscaping guidelines.

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 (phase 2) to the satisfaction of the ECO and has stockpiled topsoil in the form of a vegetated berm above Phase1 to deter potential high volumes of runoff water. The building 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 civil contractor complied with this.
- The civil contractor is continually ensuring that dust monitoring is being done - A water truck is used to apply water spray to the haul roads.
- Building contractors are stockpiling the topsoil on the vegetated berm



Stormwater deflection berm north of phase 2.



Stormwater deflection berm north of phase 2 - Vegetated.



Water truck spraying water on haul roads.



Topsoil is being replaced as top layer.

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. Construction with 4 homes have commenced since January 2020. Building plans first has to be approved by the Outeniquasbosch Home Owners Association Architectural Committee before submitting to Mossel Bay Municipality.

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.

- Weekly ECO monitoring and reporting (via email) are being done to ensure that building contractors comply with the EMP.



Individual house construction (Erf 6590)



Erf 6558

Environmental completion certificates were issued to the following houses and the ongoing maintenance and monitoring are now the responsibility of Outeniquasbosch HOA:

- Erf 6639 (92) – 26 November 2020
- Erf 6634 (87) – 27 November 2020
- Erf 6590 (43) – 1 December 2020

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 (as on the 12th August 2020)

Classification	Numbers & % Local to Mossel Bay	Numbers and % from Southern Cape (Mossel Bay)	Number & % from outside Southern Cape
Semi skilled	13 (100%)	0	0
Operators	9 (90%)	1 (10%)	0
Artisans	8 (100%)	0	0
Management	3 (90%)	1 (10%)	0
Professionals	0	0	0
Other	0	0	0

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.

- Toilet facilities are available on site during civil services installation.



Civil contractor toilet



Individual home builder provide portable chemical toilets for staff during construction phase

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.



Individual home builders provided suitable skip or bins on site.

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 mixing areas to be rehabilitated – any contaminated soil must be disposed of at an authorised disposal facility and the affected area must be rehabilitated with topsoil and an indigenous grass seed mixture as directed by the ECO.
- The sidewalk contractor was made aware that a protective sheet and small bunding wall is required when mixing and working with concrete - Leftover concrete was stripped from the affected areas and the ECO will monitor further sidewalk construction.



Civil contractor – limited cement mixing was necessary and was done in a central location. The area was rehabilitated.



Concrete mixing should be done on a protective sheet with a small bunding wall to prevent contamination and possible run-off – the contractor was notified and the leftover concrete was removed.

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 Outeniquasbosch Eco Estate 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.
- Construction vehicles must abide to the speed limit as this is a wildlife estate with animals roaming freely.
- A temporary access road was created during the construction period of the main entrance road surfacing – this will be rehabilitated once vehicles are allowed to use the new surfaced entrance road.



Temporary access road during the surfacing of the main access road.

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.
- The storm water detention ponds handle the storm conditions well and showed their efficiency.

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 has been done and the plants have established well.
- Rehabilitation of all civil construction areas within second phase has been done, ECO do regular inspection to monitor progress.



Plant rescue and rehabilitation



Rescued plants are planted on the stormwater deflection berm.

12. Conclusion

The civil and building contractors are aware of the environmental requirements and is complying. It is advised that the contractors 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.

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.

ECO monitoring for the period **1 July 2020** to **4 December 2020**

Date:	Comment:
3 July 2020	ECO site inspection (Civil and building contractor)
9 July 2020	ECO site inspection (Civil and building contractor)
16 July 2020	ECO site inspection (Civil and building contractor)
24 July 2020	ECO site inspection (Civil and building contractor)
31 July 2020	ECO site inspection (Civil and building contractor)
6 August 2020`	ECO site inspection (Civil and building contractor)
13 August 2020	ECO site inspection (Civil and building contractor)
18 August 2020	ECO site inspection (Civil contractor) & Site meeting
20 August 2020	ECO site inspection (Civil and building contractor)
27 August 2020	ECO site inspection (Civil and building contractor)
4 September 2020	ECO site inspection (building contractor)
7 September 2020	Environmental induction Erf 6644
10 September 2020	ECO site inspection (building contractor)
18 September 2020	ECO site inspection (building contractor)
22 September 2020	ECO site inspection (building contractor) & Environmental Induction Erf 6619 & Erf 6641
7 October 2020	CO site inspection (building contractor) & Environmental Induction Erf 6544 & Erf 6557
16 October 2020	ECO site inspection (building contractor)
23 October 2020	ECO site inspection (building contractor)
26 October 2020	Environmental Induction (Civil contractor)
29 October 2020	ECO site inspection (Civil & building contractor)
3 December 2020	ECO site inspection (Civil & building contractor)