



GEORGE
TEL: +27 (0) 44 873 4923 **FAX:** +27 (0) 44 874 5953
EMAIL: info@sesc.net **WEBSITE:** www.sesc.net
ADDRESS: 102 Merriman Street, George 6530
PO BOX: 9087, George, 6530

CAPE TOWN
TEL: +27 (0) 21 554 5195 **FAX:** +27 (0) 86 575 2869
EMAIL: betsy@sesc.net **WEBSITE:** www.sesc.net
ADDRESS: Tableview, Cape Town, 7441
PO BOX: 443, Milnerton, 7435

ENVIRONMENTAL MONITORING REPORT

FOR THE

HARTENBOS LANDGOED PHASE 2 DEVELOPMENT ON A PORTION OF THE REMAINDER OF THE FARM VAALEVALLEY 219, MOSSEL BAY

PREPARED FOR: Hartenbos Landgoed Phase 2 (Pty) Ltd

DATE: 9th December 2019

REPORT NR: EMR/HBLG/MSB/03/19

DEADP REF NR EG12/2/1 – AM18 – Farm Valle Valley 219/10 (5382)

COPY TO Chris Odendaal – codendaal@vodamail.co.za
Hannes Lourens – hlourens@eceng.co.za
Marius Venter – DEADP.Appeals@westerncape.gov.za



PROJECT DETAILS

TITLE: Hartenbos Landgoed Phase 2 Development on a Portion of the Remainder of the Farm VaaleValley 219, Mossel Bay

LOCATION: Mossel Bay, Western Cape

ENVIRONMENTAL CONSULTANCY: Sharples Environmental Services cc.

REPORT REVIEWER Mr. J. Sharples

PRIMARY ECO Mr. M. Bennett

EXPERTISE: Michael studied at the University of Cape Town completing a Bachelor of Science degree majoring in Environmental and Geographic Sciences and Ocean and Atmospheric Science. Michael joined SES in 2014.

SECONDARY ECO & AUTHOR Mr. T. Fortuin.

EXPERTISE: Tiaan studied at the North West University completing a Bachelor of Science degree majoring in Environmental and Biological Sciences. Tiaan joined SES in 2018.

CLIENT: Hartenbos Landgoed Phase 2 (Pty) Ltd

REPORT CLASSIFICATION: Environmental Monitoring Report

SES REFERENCE NUMBER: EMR/HBLG/MSB/03/19

Conditions of use:

The report is the property of the sponsor, *Sharples Environmental Services cc (SES)*, who may publish it, in whole provided that:

- I. Approval for copy is obtained from SES.
- II. SES is acknowledged in the publication.
- III. SES is indemnified against and claim for damages that may result from publication of specifications, recommendations or statements that is not administered or controlled by SES.
- IV. Approval is obtained from SES if this report is to be used for the purposes of sale, publicity or advertisement.

Section	
1	Introduction

Sharples Environmental Services cc (SES) has been appointed by *Hartenbos Landgoed Phase 2 (Pty) Ltd (client)*, as the Environmental Control Officer (ECO) to monitor the construction activities on site for the development on a portion of the remainder of the Farm VaaleValley 219, Mossel Bay.

SES has been appointed to undertake three monitoring visits for the duration of the contract period, to ensure that environmental degradation is kept to a minimum. This monitoring report has been compiled to indicate compliance with the Environmental Management Plan (EMP) prepared by SES, dated March 2008. The monitoring site inspection for this report were undertaken on the 28th November 2019.

Section	
2	Locality and Description of Activity

The proposed development is located between the towns of Hartenbos in the southwest and Klein Brak River in the Northeast and between the railway line which runs along the coastline in the southeast and the N2 National Road in the north-west. Please refer to Figure 1 for the location of the site.

The proposed development consists of the following:

- 1265 residential erven (zoned Residential I)
- Five townhouse erven (zoned Residential III that includes 150 social housing units, a multipurpose community centre and a 300m² split zoned Business II site located on Portion 1302)
- An open space network and recreation area (zoned open space II) and a 3500m² split zoned business II site (located on portion 1306),
- A road network and associated infrastructure

Access will be from the Main Road 344 through the culvert under the N2 national road, which will be upgraded to four lanes.



Figure 1: Google Earth Image depicting the development site

Images 1 to 8 show the progression of construction activities to date (28 November 2019).



Image 1: The site camp has been fenced off along its perimeter



Image 2: Roads and kerbing have been constructed within the development site



Images 3 & 4: Installation of electricity cables within the trenches



Images 5: Installed road network within the development site



Image 6: Construction of valve chambers along the pipeline route within the development site



Image 7: Development site



Image 8: Development site in a western direction

No permits have been obtained from Heritage Western Cape as stipulated in the Impact Assessment Report conducted by MAPCRM cc. Refer to Figure 3 for the archaeological of the Heritage Report compiled for the assessment of this development which have been overlain on a Google Earth Image of the site in addition to the most recent Site Development Plan.



Figure 3: Site map indicating areas of heritage interest

Section 5		COMPLIANCE WITH EA and EMPr	
	Complied	Comments/Observations	Action to be taken
<u>SITE CAMP</u>	Yes/Part/No		
Ablution facilities	Partial	A chemical toilet was noted near the site camp.	One chemical toilet must be provided for every 15 labourers on site therefore two chemical toilets must be provided on site since there is 35 labourers on site.
Integrated Waste Management system	No	No integrated waste management system was noted on site.	As stated within the approved EMPr dated March 2008, a waste management approach should be adopted and implemented on site. Non – biodegradable refuse such as glass bottles, plastic bags, metal scrap etc. must be stored in a container at a collecting point and collected on a regular basis and disposed of at an appropriate recognized disposal facility. No refuse must be dumped within the development site for extended periods of time, unless inside waste collection receptacles.
Demarcation and No-Go Areas	Partial	The site camp has been fenced off along its perimeter.	Adequate signage needs to be in place, designating the site office/camp as a restricted area to non – construction people, please refer to page 15 of the approved EMPr.
Housekeeping	Yes	The housekeeping within the site camp was in a good condition.	The housekeeping of the site must be maintained for the duration of the project.
<u>SITE</u>			
Site access and haulage routes	Yes	Access to the site is gained from the MR344 through the culvert under the N2 national road and the existing road network.	Operators are sticking to the haul routes therefore no action is required.
Demarcation and No-Go Areas	No	The site is fenced off along its perimeter however no sensitive areas were demarcated within the development site.	As stated within the approved EMPr dated March 2008, all sensitive areas, which must not be disturbed, must be demarcated using with a 1.2m high fence constructed of shade cloth netting, staked at regular intervals of between two and three meters. Furthermore, where a fence is considered impractical No – go signs should be erected at frequent intervals along the edge of the no – go areas.
Ablution facilities	Partial	A chemical toilet was provided for the labourers on site (Image 9).	As stated in the approved EMPr, one chemical toilet must be provided for every fifteen

Section 5		COMPLIANCE WITH EA and EMPr	
	Complied	Comments/Observations	Action to be taken
			labourers on site therefore two chemical toilets must be provided on site to accommodate the 35 labourers
Housekeeping	Partial	Building rubble and removed branches were noted within the development site (Image 10). The general housekeeping of the site was in a good condition.	The building rubble must be removed within the development site and disposed of at an appropriate registered facility. In addition, the housekeeping must be maintained for the duration of the construction period.
Integrated Waste Management System	No	No integrated waste management system was adopted on site.	As stated within the approved EMPr dated March 2008, a waste management approach should be adopted and implemented on site. Non – biodegradable refuse such as glass bottles, plastic bags, metal scrap etc. must be stored in a container at a collecting point and collected on a regular basis and disposed of at an appropriate recognized disposal facility. No refuse must be dumped within the development site for extended periods of time, unless inside waste collection receptacles.
Topsoil and subsoil management Stockpiles and lay-down areas	No	The topsoil and subsoil were not stored separately on site (Image 11). In addition, the stockpiles on site were not demarcated however no erosion were noted to the stockpiles.	Topsoil and subsoil which has been removed must be stored separately and left in that position for the duration until rehabilitation ventures. Please refer to page 22 of the approved EMPr.
Concrete Management	Partial	Concrete was noted on the bare ground within the development site (Image 12).	The concrete must be removed from the ground and disposed of at an appropriate registered facility. The concrete management must be maintained for the duration of the project.
<u>GENERAL</u> Environmental Awareness Training	Yes	Environmental Awareness Training were undertaken on the 30 July 2019 with 12 labourers in attendance and on the 28 th November 2019 with 35 labourers in attendance.	Additional Environmental Awareness Training will be undertaken as required on site.
Erosion Control and Stormwater Management	No	Erosion was noted within the development site, as seen from Image 13.	The erosion gullies must be rehabilitated and further erosion on site must be mitigated.
Rehabilitation	Yes	During our site inspection it was noted that the contractor was undertaking rehabilitation activities on site, as seen from Images 15 to 17.	Final rehabilitation and landscaping must be undertaken once construction activities have concluded on site. Completed areas must be

Section 5	COMPLIANCE WITH EA and EMPr		
	Complied	Comments/Observations	Action to be taken
			rehabilitated as soon as practically possible by implementing the rehabilitation mitigation measures as specified within the approved EMPr.
Written notice to DEADP	Partial	One week's notice was given to Department of Environmental Affairs after construction already commenced on site.	The one week's notice was sent to DEADP on the 26 July 2019.
Establishment of Environmental Liaison committee	Partial	A newspaper advert was placed in a local paper to invite the members, however no requests to join were received.	Compliance was still undertaken as necessary.
Discovery and Protection of Heritage resources	No	No permits were obtained from Heritage Western Cape as stipulated in the Impact Report by MAPCARM cc dated 28 September 2005.	No archaeological remains were to be found according to our knowledge. Permits can still be obtained from Heritage Western Cape
Recommended Alternative	Yes	The recommended alternative was approved by the Department of Environmental Affairs and Development Planning.	No action required
Nature area	Yes	No new roads were noted within the nature area.	Not applicable at this stage.
Fire Management Programme	Yes	A Fire Management Programme has been developed however it has not been approved by CapeNature or the local and District Fire Chiefs.	This is in process.
CapeNature's Stewardship Programme	No	The applicant must approach CapeNature with a request to enter into some form of agreement or contract in terms of CapeNature's Stewardship programme.	As to our knowledge no form of agreement has yet been undertaken with CapeNature so far.
Invasive Alien Vegetation	N/A	Initial clearing of all alien invasive vegetation must take place within 24 months after commencement of construction activities. Follow up clearing of invasive plants must be done annually.	The developer has 2 years to comply with this condition.
Stormwater Management Plan	Uncertain	A stormwater management plan must be prepared and approved by the Mossel Bay Municipality. Hard surfaces must be limited or	This can be compiled with if it hasn't been already.

Section	COMPLIANCE WITH EA and EMPr		
5			
	Complied	Comments/Observations	Action to be taken
		reduced where possible. Measures must be implemented to slow down the flow of storm water, dissipating energy and increased infiltration of storm water and replenishing groundwater. Storm water may not be allowed to run down steep slopes on the north – eastern boundary towards the Klein – Brak River.	
Protected trees	Uncertain	Permits must be obtained from the Department of Water Affairs and Forestry before any forest may be disturbed, pruned or damaged in a way.	Permits from the Department of Water Affairs and Forestry must be obtained as soon as possible.
Indigenous Hedgerows	No	Some of the natural hedgerows may have been cleared	Indigenous hedgerows should be retained.
Guidelines contained in the Economic Impact Report	Uncertain	The applicant must provide ample opportunity for training and skills transfer.	The applicant to comment in this regard.
Bulk earthworks and excavations must be monitored by a professional archaeologist	No	No bulk earthworks and excavations were monitored by a professional archaeologist.	No heritage remains were found as to our knowledge.
Environmental Control Officer	Yes	An environmental control officer was appointed by the applicant.	SES have been appointed as the Environmental Control Officer on site.
Implementation of EMPr	Partial	Partial compliance of the EMPr was implemented by the contractor.	The applicant is to ensure full compliance of the approved EMPr.
Outdoor Advertising	Yes	No outdoor advertising was noted on site.	No action required.



Image 9: The chemical toilet must be placed on a level surface



Image 10: The building rubble must be removed from site and disposed of at an appropriate registered facility



Image 11: The topsoil and subsoil must be stored separately for the duration of the project



Image 12: The concrete powder and pieces must be removed from the ground and disposed of at an appropriate registered facility



Image 13: The erosion gullies on site must be rehabilitated and further erosion must be mitigated



Image 14: The embankment on site must be revegetated with indigenous vegetation



Images 15 to 17: Disturbed areas were revegetated with indigenous vegetation

Section	
7	Conclusion

SES has compiled this Environmental Monitoring Report to detail compliance with the EMPr and EA for the visit conducted on the 28th November 2019. No integrated waste management approach has been adopted on site. Erosion gullies must be rehabilitated on site and further erosion must be mitigated. In addition, to our knowledge no permits have been obtained from the relevant departments (Heritage Western Cape, Department of Agriculture and Forestry etc.). The ECL has not been set up because no interest has been received from potential attendees in this matter.

To conclude, improvement was noted to a small extent on site however the contractor has partially complied with EMPr and EA. In this regard we encourage the contractor/applicant to give full cooperation and engagement to ensure that all conditions of the EA and EMPr are adhered to.