



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
Mobile: +27 (0) 82 558 6589
E-mail: admin@hilland.co.za
www.hilland.co.za

**ENVIRONMENTAL MONITORING REPORT NO. 44
FOR
HARTLAND ON
PORTION 11 OF FARM VAALE VALLEY 219, MOSSEL BAY**



Compiled by:

Hilland Environmental

Reference:

MOS25/1027/72

Report Period:

April 2025

ISSUED BY:

HillLand Environmental

PO Box 590

George, 6530

Tel: 044 889 0229

Fax: 086 542 5248

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

ENVIRONMENTAL MONITORING REPORT NO. 44 – APRIL 2025

HARTLAND DEVELOPMENT- PORTION 11 OF FARM VAALE VALLEY 219, MOSSEL BAY**Conditions of report use:**

The report is the property of the sponsor and the author, who may publish it, in whole, provided:

- 1 That written approval is obtained from the author and that **HillLand Environmental** is acknowledged in the publication;
- 2 That **HillLand Environmental** is indemnified against any claim for damages that may result from publication;
- 3 The contents of this report may not be used for purposes of sale or publicity or advertisement without the prior written approval of **HillLand Environmental**.
- 4 That it is understood that **HillLand Environmental** accepts no responsibility for the contractor's failure to follow the recommended programme.

<u>Report submitted to:</u>	Andre le Roux – Dalmar Construction
<u>Copies to:</u>	Duane Holliday – Dalmar Construction Paul Derbyshire – Dalmar Construction DEADP – George

Report author: Litha Manyube – HillLand Environmental

Report reviewer: Stefan Delpert – HillLand Environmental

Environmental Monitoring Report No. 44

This section of the report monitors compliance against the Environmental Management Plan (Ref: EIR/MSB/MS/36/SD/3/8 – **dated 28 June 2023**). This monitoring report constitutes the **44th** Environmental Monitoring Report, and it covers all work undertaken as part of Hartland Estate development.

Addendum to the Environmental Authorisation (16/3/3/5/D6/29/0008/22 – 22 June 2023) was issued. The CEMPr (March 2008) and OEMPr (June 2008) have been amended to comply with the conditions of the amendment EA, was submitted to the Department and approved – 7 August 2023.

This report is divided into three sections;

- **Section A** – Civil services installations
- **Section B** – Operational phase monitoring

Action:	Phase:	Comment:
Service installations	Retirement village: Phase 2	Civil services installation of Retirement Village
	Fynbos Heuwels	Civil services installation of Fynbos Heuwels
	Phase H2	Civil services earthworks of Phase H2 - completed.
	Hartland Right Hand Turn Lane (R102)	Installation of new right-hand lane – ongoing
	Phase A – Klein Karoo	Civil services earthworks of Phase A – ongoing
	Hartland Bulk Electrical (MV) Supply	Bulk electrical supply to Hartland (external services installation)
Housing construction	All phases	The rest of the phases that have already been completed are under continuous housing construction.
Open space management	Operational phase	Ongoing follow-up alien clearing in terms of the ACP. Maintaining stormwater outlets (litter and silt). Litter picking in the development area and open spaces is ongoing.

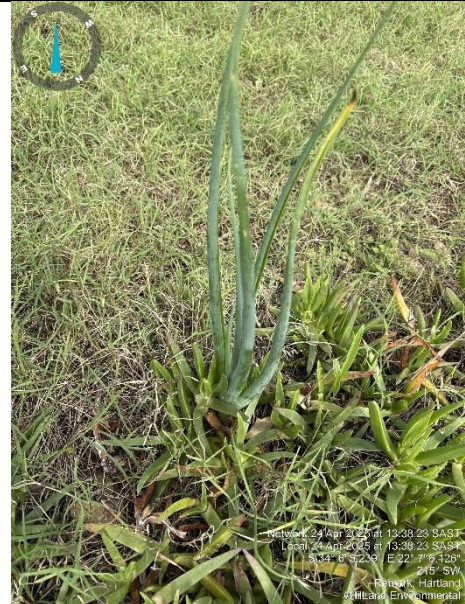
ECO Monitoring during **April 2025**:

Date:	Comment:
04 April 2024	ECO Inspection
10 April 2025	ECO Inspection (DEADP)
17 April 2025	ECO Inspection
23 April 2025	ECO Inspection & Site meeting
30 April 2025	ECO Inspection & Site meeting

SECTION A – CIVIL CONSTRUCTION MONITORING

The EMPr monitoring checklist is for the civil installation phase(s) – Phase H2, Phase A (Klein Karoo) & Right Turn Lane. The table lists the level of compliance with notes/comment where relevant.

EMPr requirements	Compliance notes	Comments / Findings	Photos (if applicable)
GENERAL (PRE – CONSTRUCTION)			
Environmental Induction			
An appropriate ECO must be appointed to ensure that all related activities as stipulated in the EMPr are adhered to. - Environmental induction must be given to all parties that require environmental training as set out in the EMPr.	Compliant	HillLand Environmental is the appointed ECO for Hartland development. Urwhebo e-Transand is the main civil services installation contractor and VE Reticulation the electrical services contractor. Environmental induction is done with the site foreman. No environmental concerns were noted during this monitoring phase. Induction will be scheduled as necessary.	
Demarcation of NO-GO area			
The site camp must be set up prior to the start of construction and clearly demarcated to illustrate NO-GO areas.	Compliant	The same site camp is being used, located in the development zone and complies with the requirements and recommendations.	
All sensitive areas, which must not be disturbed, must be demarcated using a 1.2m high fence constructed of shade cloth netting (or similar product), staked at regular intervals. Where a fence is considered impractical No-Go signs should be erected at frequent intervals along the edge of the no-go areas in consultation with the ECO.	Compliant	The working zone is pegged by the surveyor before construction starts - ongoing. The conservation area/natural vegetation adjacent to the Retirement village is demarcated with a suitable fence - ongoing.	

		Right-turn Lane sensitive areas (road reserve) have been pointed out to the contractor - compliant.	
Fauna and Flora			
Plant identification must be done whereby they must be rescued and relocated to an appropriate location for later use in rehabilitation.	Ongoing	Development zone is the historic agricultural fields, <i>mainly grass</i>. Geophytes are to be rescued -they must be used in rehabilitation - ongoing. Ongoing – record to be kept of the plants that are rescued and submitted to the ECO for record keeping – <i>no record received during this reporting period</i>.	
No clearing outside of development and infrastructure footprint area to take place.	Compliant	Clearing takes place within the demarcated development footprint / pegged working area - the contractor is compliant with this requirement for phase A and Right-Turn Lane.	
Any fauna encountered on site must be allowed to passively vacate the area. Active relocation of fauna like snakes must be a last resort and must only be performed by a person skilled/ experienced enough to do so without endangering him/herself or the animal/bird.	Ongoing	Nothing reported to the ECO or noted by the ECO during site inspections.	
No wild animal may under any circumstance be handled, removed, or be interfered with by construction workers. No wild animal may under any circumstance be hunted, snared,	Ongoing	Nothing reported to the ECO or noted by the ECO during site inspections. The springbok herd is roaming in or near the construction phase – extra care should	

captured, injured, or killed. This includes animals perceived to be vermin.		be taken to avoid harming them – <i>toolbox talk with drivers recommended.</i>	
Blanket clearing of vegetation must be limited to the approved development footprint, and the area to be cleared must be demarcated before any clearing and grubbing commences.	Compliant & ongoing	All clearing is done within the demarcated footprint that is pegged out by the surveyor. No blanket clearing outside of the immediate/current development area noted.	 Retirement village phase 2
Topsoil stripping			
Topsoil must be neatly removed and stored away without contamination. It is also to be used for rehabilitation once construction is complete.	Compliant & ongoing	Topsoil is placed next to open trenches (windrow) for use during rehabilitation in the same sequence. Bulk topsoil stockpile sites for Retirement village and Fynbos Heuwels were approved by the ECO – internal open space of the retirement village. Phase H2 – rehabilitation of the road verges – topsoil and grass seed mix to be implemented. Subsoil will be stockpiled according to the earthworks master plan and covered with topsoil – ongoing alien clearing on the swale required.	 Phase H2 – topsoil to be replaced on road verges and haul routes

CONSTRUCTION PHASE			
Site management			
Chemical toilets must be kept at the site camp, on a level surface and secured from blowing over.	Compliant & ongoing	There is adequate ablution facilities located throughout the site and at the site camp – no environmental issues noted during this reporting period.	 Network: 04 Apr 2025 at 13:02:44 SAST Local: 04 Apr 2025 at 13:02:44 SAST S 34° 0' 0" N 22° 7' 0" E 22° 7' 0" E Remark: Hartland #Hiland Environmental
Cement batching must take place on an impermeable surface large enough to retain any slurry or cement water run-off.	Ongoing	Cement batching is done on development areas (platforms), in wheelbarrows (as required) or on impermeable surfaces (wooden boards). Cement mixing area must be rehabilitated (all phases) to the satisfaction of the ECO – remove contaminated soil and replace topsoil (grass seed mix if required).	
All construction vehicles need to adhere to traffic laws. The speed of construction vehicles and other heavy vehicles must be strictly controlled to avoid dangerous conditions for other road users. As far as possible care should be taken to ensure that the local traffic flow pattern is not significantly disrupted. Use existing construction haul routes.	Ongoing	Construction vehicle movement is in general confined to the roads and/or construction haul roads. Haul routes to be demarcated to prevent unnecessary off-road driving or creating new haul routes. All construction haul routes must be rehabilitated to the satisfaction of the ECO and developer at completion of the phase.	 Network: 31 Aug 2025 at 12:37:05 SAST Local: 30 Apr 2025 at 12:37:05 SAST S 34° 0' 0" N 22° 7' 0" E 22° 7' 0" E Remark: Hartland #Hiland Environmental

Soil erosion mitigation			
Erosion control measures including silt fences, low soil berms and/or shutter boards must be put in place around the stockpiles to limit sediment runoff from stockpiles.	Ongoing	Currently there are no soil erosion issues. Silt fences to be installed to capture silt runoff once the stormwater outlets have been construction (Phase H2).	 Network: 30 Apr 2025 at 12:30:57 SAST Local: 30 Apr 2025 at 12:30:57 SAST S: 34° 51' 51.645" E: 22° 7' 17.887" 299 m ASL Remark: Hartland #HilandEnvironmental
Areas which have been covered with topsoil from the stockpiles, and which may be subject to erosion should be stabilized.	Ongoing	Rehabilitation follows the construction phase. Road verges are to be covered with topsoil and the steeper sections will require erosion protection (silt fences or sandbags). This will be necessary for Phase H2.	
Waste and pollution management			
Dedicated waste bins or skips must be provided on site and kept in a demarcated area on an impermeable surface. Construction workers must be instructed not to litter and to place all waste in the appropriate waste bins provided on site.	Compliant & ongoing	Suitable waste bins are available at the site camp. It should be noted that the housing contractor is also busy in the same phase(s) and therefore it is the housing contractor's obligation to ensure they have sufficient bins or skips on site. Ongoing litter picking for both civil services installation and house building contractor. Regular litter picking is being done by the HOA. Civil and building contractor to ensure their working areas are litter free (all phases).	
If a vehicle or machinery is leaking pollutants it must, as soon as possible, be taken to an appropriate location for repair. The ECO has the authority to request that any vehicle or	Ongoing	No environmental issues noted or reported to the ECO during this reporting period.	

piece of equipment that is contaminating the environment be removed from the site until it has been satisfactorily repaired.			
--	--	--	--

SECTION B – HOUSING CONSTRUCTION MONITORING

The EMPr monitoring checklist is for the house construction phase. The table lists the level of compliance with notes/comment where relevant.

EMPr requirements	Level of compliance	Comments / Findings	Photos (if applicable)
GENERAL (PRE – CONSTRUCTION)			
Environmental Induction			
An appropriate ECO must be appointed to ensure that all related activities as stipulated in the EMPr are adhered to. - Environmental induction must be given to all parties that require environmental training as set out in the EMPr.	Ongoing	Hilland Environmental is the appointed ECO for Hartland development. ECO to be notified when there are new construction staff and environmental induction is required. Main contractor to do regular toolbox talks with staff and include environmental topics – record to be kept in the health and safety / environmental file.	
Demarcation of NO-GO area			
All sensitive areas, which must not be disturbed, must be demarcated using a 1.2m high fence constructed of shade cloth netting (or similar product), staked at regular intervals. Where a fence is considered impractical No-Go signs should be erected at frequent intervals along the edge of the no-go areas in consultation with the ECO.	Ongoing	Housing construction sites that border sensitive areas are demarcated. Fynbos Heuwels and the Retirement Village are demarcated with wire fences. Other construction sites are demarcated with wire fence or shade netting.	 Network: 30 Apr 2025 at 12:47:25 SAST Local: 30 Apr 2025 at 12:47:25 SAST S 34° 6' 5 366" E 22° 7' 11 376" Remark: Hilland Environmental #Hilland Environmental

Fauna and Flora			
Plant identification must be done whereby they must be rescued and relocated to an appropriate location for later use in rehabilitation.	Ongoing	Plant search and rescue are being done by the main contractor (Dalmar) and HOA team. These plants are either directly planted into internal open spaces or to the on-site nursery – record to be kept of the plants that are rescued and submitted to the ECO for record keeping – <i>no record received during this reporting period.</i>	
No clearing outside of development and infrastructure footprint area to take place.	Ongoing	Only development areas and working zones are cleared. The contractor consults with the ECO to assist with No-Go demarcation identification (sensitive areas) when necessary.	 Notable: 04 Apr 2025 at 12:47:06 SAST Local: 04 Apr 2025 at 12:47:06 SAST S: 34° 5' 50.455" E: 22° 7' 34.300" Remark: Hartland HillLand Environmental
Topsoil stripping			
Topsoil must be neatly removed and stored away without contamination. It is also to be used for rehabilitation once construction is complete.	Ongoing	Topsoil is stockpiled for rehabilitation and landscaping use. Topsoil is to be stored separately from any other material (no contamination). Building rubble signs to be placed at the dedicated building rubble stockpile to avoid confusion between the topsoil and building rubble stockpiles The retirement village and Fynbos Heuwels topsoil stockpile must be kept free from invasive alien plants – <i>Datura</i>.	 Notable: 04 Apr 2025 at 12:48:02 SAST Local: 04 Apr 2025 at 12:48:02 SAST S: 34° 5' 50.455" E: 22° 7' 34.300" Remark: Hartland HillLand Environmental Rubble sign at some of the stockpile areas

CONSTRUCTION PHASE			
Site management			
Chemical toilets must be kept at the site camp, on a level surface and secured from blowing over.	Compliant	There are several portable toilets throughout the development zone. No complaints or environmental issues noted or reported to the ECO.	
Cement batching must take place on an impermeable surface large enough to retain any slurry or cement water run-off.	Ongoing	There are currently several houses under construction in various development phases. The contractor is requested to ensure that cement mixing is always conducted on an impermeable surface or permanent disturbance area. There are several construction sites that make use of an impermeable wooden sheet or in the driveway, however runoff contaminated water must be confined to the mixing area, i.e., appropriate bunding to be installed (small brick berm / wooden mixing box etc.) The cement mixing for the house construction in the Retirement Village is done on a future development zone. The batching area is not bunded – it is important to ensure that no cement water contaminates the surrounding area.	
All construction vehicles need to adhere to traffic laws. The speed of construction vehicles and other heavy vehicles must be strictly controlled to avoid dangerous conditions for other road users. As far as	Ongoing	Construction vehicle movement is in general confined to the existing roads and/or construction haul roads.	

possible care should be taken to ensure that the local traffic flow pattern is not significantly disrupted.		Haul routes to be demarcated to prevent unnecessary off-road driving or creating new haul routes. All construction haul routes must be rehabilitated to the satisfaction of the ECO and developer at completion of the phase.	
Soil erosion mitigation			
Erosion control measures including silt fences, low soil berms and/or shutter boards must be put in place around the stockpiles to limit sediment runoff from stockpiles.	Ongoing	Level erven is complaint and does not generally have silt or erosion issues. The steep erven will require silt protection, either sandbags or low bidim silt fence. Stormwater inlets must be protected – no silt or construction site wash must enter the stormwater system. This will silt up the stormwater outlets, many of which are in the conservation area.	 Stormwater inlets must be protected to prevent silt build-up

Waste and pollution management			
Dedicated waste bins or skips must be provided on site and kept in a demarcated area on an impermeable surface. Construction workers must be instructed not to litter and to place all waste in the appropriate waste bins provided on site.	Ongoing	Compliant - The contractor placed additional waste bins at each construction site which are emptied weekly. Skips are placed strategically throughout the site and are demarcated with shade netting (to prevent wind from blowing litter). Ongoing - Wind-blown litter remains an ongoing construction related problem. Therefore, the contractor has a dedicated litter picking team conducting weekly litter picking. Either the bins must be cleaned out more frequently or the workers must be briefed on waste and litter weekly. The HOA has also appointed a dedicated litter picker.	 
If a vehicle or machinery is leaking pollutants it must, as soon as possible, be taken to an appropriate location for repair. The ECO has the authority to request that any vehicle or piece of equipment that is contaminating the environment be removed from the site until it has been satisfactorily repaired.	Ongoing	No environmental issues noted or reported to the ECO.	

REHABILITATION SPECIFICATIONS / REQUIREMENTS

Rehabilitation requirements are specified in the EMPr (**Section 10.4**). Some of which include all exposed and disturbed surfaces must be rehabilitated, compacted soil must be loosened, topsoil respread and seeded with indigenous grass seed mixture or rescued indigenous vegetation. Erosion protection will be required on the steeper slopes – small soil berms, silt fences, hay bales, logs etc. (as discussed and approved by the ECO).

SECTION C - GENERAL AND OPERATIONAL PHASE MONITORING

This section of the report monitors compliance with the amended Operational Phase Environmental Management Plan (EIR/MSB/MS/36/SD/3/8 – 28 June 2023). The table lists the level of compliance with notes/comment where relevant.

OEMPr requirements	Level of compliance	Comments / Findings	Photos (if applicable)
STORMWATER & EROSION CONTROL			
Waste traps must be cleared of any obstructions monthly or when heavy rainfall has occurred.	Ongoing	Litter and silt wash are being removed from stormwater outlets and must be monitored by the HOA and management – ongoing activity that the HOA is assisting and managing.	
Any concentrated flows of stormwater should, where possible, be dissipated to avert any erosion.	Compliant	Stormwater is generally dissipated and diverted into the naturally vegetated open space as per the engineering design and ECO guidance. Swales in terms of the earthworks master plan.	
MANAGEMENT OF NATURAL OPEN SPACES			
Natural open spaces must be managed properly to maintain ecological biodiversity and to provide limited and controlled recreational access to the residents living in this development.	Compliant and ongoing	- Initial alien clearing is done. Ongoing follow up clearing/eradication to be implemented. - A section of the <i>Thamnochortus insignis</i> in the natural open space is maintained - bossiekap. - The existing tracks are being maintained as maintenance tracks, firebreaks (bossiekap) and security patrols. - Hiking/cycling tracks in the development area, conservation area and internal open spaces must be monitored for erosion and damage (by the HOA) and repaired immediately to avoid excessive environmental damage. - Viewing deck is maintained. - Perimeter firebreaks are in places and maintained – avoid bare surfaces to limit soil erosion risk. Wood	

		chips/<i>carpobrotus</i> etc. can be used to cover bare soil. • Kweek lawns are installed at the newly completed houses. • Conservation area "rules" boards are in place.	
Erosion and rehabilitated erosion areas damaged by high rainfall and wind incidents must be monitored and repaired (as needed).	Ongoing	Existing tracks in the conservation area must be regularly inspected for signs of erosion and must be repaired as soon as possible. No new structures or infrastructure may be created in the conservation area without first consulting with the ECO to ensure that no new listed activities are triggered and/or Environmental authorisation. Sandbags are being used to stop (dune) erosion onto the fence and allow for security and maintenance access in the firebreak. No vehicle access is allowed in terms of the EA. The sandbags need to be covered with Geojute/Hessian to promote vegetation regrowth to cover the sandbags. Indigenous grass seed mix is recommended for the firebreak to further limit soil erosion – <i>carpobrotus</i> may also be used as a ground cover	
Erosion rehabilitation areas need to be inspected on a 6 monthly basis, but also after heavy rainfall events.	Ongoing	Ongoing monitoring for erosion damage after heavy rain and storm events – special focus on the stormwater outlets, hiking/cycling trails and maintenance tracks.	
Access roads/nature trails must be maintained by mowing at least every 3 months.	Ongoing	Hiking/cycling tracks in the development area, conservation area and internal open spaces must be monitored for erosion and damage (by the HOA) and repaired immediately to avoid excessive environmental damage. Boundary fence track section – no "bossiekap" or herbicide may be used.	

FIRE MANAGEMENT			
A fire management programme must be developed to protect the sensitive open space from wildfires.	Compliant	Firebreaks are in place and must be maintained.	
The Homeowners association must become members of the FPA and actively take part in activities.	Compliant	The HOA remains members.	
Firebreaks surrounding and within the development must be managed properly.	Compliant	No herbicides or "skoffeling" must be used to maintain firebreaks. Make use of handheld operating equipment to maintain firebreak and minimize environmental risk.	
RESIDENTIAL GARDENS			
Residents must propagate "water wise indigenous gardens" on their properties.	Compliant	Residents make use of rainwater tanks and indigenous vegetation.	
Flowering plants must be planted in pots or troughs.	Compliant	Flowering plants refers to non-indigenous/exotic plants. Only indigenous plants are used for gardening.	
No gardening allowed in the natural open spaces / conservation areas.	Compliant	No gardening in natural open spaces (conservation area and natural bush). Internal open spaces are maintained for the residential use – landscaped area.	
WATER MANAGEMENT			
Each dwelling must have rainwater storage tank which is connected to the gutter system of the house.	Compliant	Part of the architectural guidelines and observed during site inspections	
The HOA and developer must encourage water saving practices.	Compliant	HOA and developer to encourage water saving techniques as much as possible.	
WASTE AND ENERGY SAVING GUIDELINES			
Energy saving mechanisms should be implemented.	Compliant	The latest available energy savings mechanisms are being used throughout the development.	
No French drains or septic tanks are allowed.	Compliant	All sewage is connected to the municipal sewage network.	

		The hiking/cycling trail and security deck toilet is connected to a mini package plant. Recycled water is released into the firebreak area -spotlights at the security deck to be managed to not cause light pollution.	
ARCHAEOLOGICAL AND HERITAGE RESOURCES			
Should any heritage resources be unearthed or discovered during management actions works in that area is to be suspended immediately.	Compliant	Dr Peter Nilssen is the appointed Archaeological monitor. No significant artifacts have been found during this monitoring report.	
ALIEN VEGETATION & INVASIVE PLANT SPECIES			
A follow-up alien clearing plan must be developed to control the regeneration that will occur after the initial clearing.	Ongoing	Approved ACP is being implemented. The SCFPA has been appointed to continue with the invasive alien clearing and follow-up eradication in the conservation area. Stormwater swale – invasive alien plants (mainly <i>Datura</i> sp.) must be removed asap.	 Hilland Environmental Hartland 24.04.2025 13:39 34° 6' 3.21" S 22° 7' 6.23" E Kasur St
Eradication of alien plants must be completed in such a manner that indigenous vegetation is not damaged.	Compliant and ongoing	No notice was made of indigenous vegetation being damaged during alien clearing.	

HERITAGE AND ARCHAEOLOGICAL MONITORING

Dr Nilssen continues to monitor all bulk excavations and earthworks for civil service installation and individual house construction (platforms). Please refer to **Annexure A** for the Archaeological monitoring report (April 2025).

Although there were several cases of non-notification of earthworks, the developer is compliant with the heritage component of the environmental authorisation for Hartland Lifestyle Estate. While no significant heritage sites were exposed, the identification of Stone Age implements and their contexts is broadening our understanding of the pre-colonial archaeological record and depositional environments in this near coastal setting. There are no heritage-related issues or

concerns requiring further investigation, management or mitigation in terms of the NHRA (Act 25 of 1999).

CONCLUSION AND RECOMMENDATIONS

Civil and housing construction is ongoing. Weekly ECO site inspections must continue. Archaeological monitoring of all excavations (into virgin soil) must continue. It is recommended that the civil and housing contractors do regular toolbox talks to remind their staff of the environmental requirements – no-go areas, littering, ablution facilities etc.

Retirement village:

- The green zone adjacent to the Retirement living: Phase 1 development area is demarcated with a wire fence and no entry sign boards. This zone is well away from Retirement village phase 2.
- The cement batching area **needs to be** bunded with sandbags or a small berm.
- Indigenous trees and vegetation have been planted along the entrance road into the Retirement village.

Phase H2:

- Civil services installation is complete.
- Shaping of the road verges were done – rehabilitation (topsoil) to be completed.

Phase A/ Klein Karoo:

- Civil services installation is ongoing.
- Earthworks for the platforms in process.

Right Hand Turn Lane:

- Construction of the right-hand turn lane on the R102 is ongoing.

- Pruning of vegetation on the fence and not removal of any vegetation – this might require environmental authorisation. No protected trees may be pruned/disturbed/removed without a NFA permit.
- SANRAL stormwater outlets were cleaned out.

Housing:

- Continue demarcating the sites bordering the conservation/sensitive areas.
- Ensure cement mixing on impermeable surfaces and remove cement contaminated soil and rehabilitate accordingly.
- Do regular litter picking with focus on the green zones and undeveloped stands.

Operational phase:

- Ongoing follow-up alien regrowth clearing.
- Ongoing maintenance of the stormwater outlets (silt and litter).
- Boundary fence maintenance – no “skoffeling” allowed, only brush cut the firebreaks.

Archaeological monitoring report for Hartland Lifestyle Estate

April 2025

Peter Nilssen (30 April 2024)

Of the 7 house platforms, notification prior to works was not received for 4 erven. Notification was also not given for the clearing and bulldozing of the future school sports field nor of the deep sewer trenches excavated between the Hartland Retirement Village and Fynbosheuwels.

Archaeological site inspections were conducted during weekdays on a spot check basis and in accordance with notifications of new works.

Earthworks included vegetation / topsoil stripping and platform excavations for individual Erven in Phases H and 4, platform / terracing excavations and deepening of certain platforms in Phase A – Klein Karoo, trench excavations at Hartland Retirement Village Phase 2 (HRV-Ph2) and Hartland Retirement Village (HRV) for sewer and storm water pipelines, and vegetation / topsoil stripping and bulldozing at the school sports field for Hartland Development (Hart.Dev.) Earthworks were done primarily with mechanical excavators, graders and bulldozers. Exposed surfaces and profiles as well as excavated stockpiles were inspected for heritage resources.



Figure 1. Hartland – Phase H – completed platforms and Stone Age piece in quartzite (middle).

Phase H Erven

Excavations for house platforms in Phase H included the completion of Erven 8125 (not notified), 8119, 8104 (not notified – large excavation), and 8126 (not notified) was deepened (Figures 1 & 2). A few Stone Age pieces in quartzite were recorded at 8119 and 8104, but due to their low densities, the absence of anthropogenic strata, and the absence of associated cultural and organic remains, these find are rated NCW and require no further action in terms of the NHRA.



Figure 2. Hartland – Phase H – completed platform and Stone Age pieces in quartzite (middle).

Phase 4 Erven

House platforms in Phase 4 included Erven 7658 (not notified), 7659 (not notified) and 7666, which are still in progress (Figure 3). Earthworks may still be outstanding on the upper level of Erf 7617 (not notified) reported in March 2025. No heritage resources were identified.



Figure 3. Hartland – Phase 4 – platforms in progress. 7659 is left of 7658 (top).

Phase A – Klein Karoo

Works included platform / terracing excavations as well as the deepening of certain platforms (Figure 4). No heritage resources were identified.

Hartland Retirement Village Phase 2 (HRV-Ph2)

Works included trench excavations for sewer and storm water pipelines (Figure 5). No heritage resources were identified.

Hartland Retirement Village - Civils

Earthworks involved deep trench excavations for sewer pipelines (Figure 6). A single Stone Age hammerstone in quartzite was seen, but due to its isolated nature and the absence of associated organic or cultural remains, the find is rated as Not Conservation Worthy (NCW) and requires no further study, mitigation or management.



Figure 4. Hartland – Phase A – Klein Karoo Civils – terracing / platform excavations in progress.



Figure 5. Hartland – HRV-Ph2 – storm water and sewer trenching.



Figure 6. Hartland – HRV – sewer trench excavations and single Stone Age hammerstone in quartzite.

Hartland Development

Works included the stripping of vegetation and topsoil and the dumping of rubble stockpiles for levelling the future school sports field (Figure 7). Several pieces and fragments of ceramic and glass of modern / colonial period origin were seen as well as several Stone Age implements (Figure 8). The latter included hammerstones, flakes and flaked pieces, all in quartzite. Due to their low densities, temporal mixing, and the absence of organic and cultural remains, these finds are rated NCW and require no further action in terms of the HRA.



Figure 7. Hartland Development– future school sports field – earthworks in progress.



Figure 8. Hartland Development – future school sports field – identified artefacts of modern / colonial period as well as Stone Age origin.

Although there were several cases of non-notification of earthworks, the developer is compliant with the heritage component of the environmental authorisation for Hartland Lifestyle Estate. While no significant heritage sites were exposed, the identification of Stone Age implements and their contexts is broadening our understanding of the pre-colonial archaeological record and depositional environments in this near coastal setting. There are no heritage-related issues or

concerns requiring further investigation, management or mitigation in terms of the NHRA (Act 25 of 1999).