



HillLand 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 2

FOR

THE OUTENIQUA WASTEWATER TREATMENT WORKS (WWTW), GEORGE EROSION REPAIR



HillLand Environmental
OWWTW
25.09.2024 08:55
+34 00773 22 4645
Unnamed Road, Pacaltsdorp, Pacaltsdorp, George

Compiled by:

HillLand Environmental

Reference:

GEO24/1251/16

Report Period:

28 August to 08 October 2024

ISSUED BY:

HillLand Environmental
PO Box 590
George, 6530
Tel: 044 889 0229
Fax: 086 542 5248
E-mail:
Website:

admin@hilland.co.za / environmental@hilland.co.za
www.hilland.co.za

**WEEKLY SITE INSPECTIONS AT OUTENIQUA WASTEWATER TREATMENT WORKS, GEORGE, IN
COMPLIANCE WITH THE REHABILITATION PLAN AND DIRECTIVE ISSUED**

ENVIRONMENTAL MONITORING REPORT NO 2

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.
- 5 That it is understood that **HillLand Environmental** accepts no responsibility for the contractor's deviation or non-compliance to any specifications or guidelines provided in the report.
- 6 That it is understood that all figures, plates and diagrams are copyrighted and may not be reproduced by any means, in any form, in part or whole.

This document is distributed as follows:	
Submitted to:	Zutari George Municipality DEADP – Rectification
Copies to:	Ruwacon

Report compiled by: Inge Delpont & Stefan Delpont – HillLand Environmental
Reviewed by: Cathy Avierinos – HillLand Environmental

Environmental Monitoring Report No 2

This report monitor's compliance against the Directive issued in terms of Section 24G (1) of the National Environmental Management Act 107 of 1998, for the unlawful commencement of erosion repairs and the rehabilitation at the stormwater outlet, at the Outeniqua Wastewater Treatment Works on the Remainder of Erf 325, George (dated 6 June 2024) – DEADP Ref: 14/2/4/2/3/D2/20/0009/24.

This monitoring report constitutes the second environmental monitoring report, and it covers the work undertaken as part of the aforementioned directive for the construction of the stormwater outlet structures on the Remainder of Erf 325, George.

Site inspection from **28 August to 08 October 2024**

Date	Comment
28 August 2024	ECO Inspection and meeting
12 September 2024	ECO Inspection
18 September 2024	ECO Inspection
25 September 2024	ECO Inspection and meeting
8 October 2024	ECO Inspection

PHOTOGRAPHIC RECORD FROM 28 AUGUST – 8 OCTOBER 2024:

Construction activities include (as per the Directive):

- The excavation of areas required to install infrastructure to contain and control degradation of the environment; - **excavation and backfilling in progress**
- The installation of the final stormwater headwall and energy dissipator below the gabion wall within 32m proximity of the Schaapkop River; - **construction of the headwall and energy dissipator completed**
- The replacement of the temporary stormwater infrastructure in the diverted route to a permanent feed (i.e. pipeline infrastructure) into the formalised main stormwater infrastructure to reduce the progression of further erosion in the diverted route; - **pipeline installed and backfilled, final shaping to be completed. Tie in to be completed**
- The installation of stormwater outlets, associated pipelines and associated infrastructure (i.e. reno-mattress, retaining walls, gabion boxes, energy dissipator headwall and stone pitching etc.); - **construction of the headwall and energy dissipator completed**
- The installation of rehabilitation infrastructure (i.e. silt fencing, bags etc.) within 32m of the watercourse; - **silt fencing in place and maintained**
- The backfilling, reshaping and topsoiling and seeding of areas with the installation of associated rehabilitation infrastructure (i.e. biodegradable materials for contour protection etc.) for the reduction of silt movement; - **to follow construction phase**

Photo	Comment/ Finding
 Hilland Environmental OW/WTW Donga 12/09/2024 09:57 34°0'22.49"S 22°27'55.48"E Pacatiindorp, George, 6534	Wooden droppers and danger tape used to demarcate the working area. Sandbags along high-risk erosion areas.

	 HilLand Environmental O/W WTW 08-10-2024 09:42 32.00635, -82.16557 Unnamed Road, Ponglishup, Accra Region, Ghana SW	Silt fences in place to reduce silt wash.
--	---	--

 HillLand Environmental QWWTW Donga 12.09.2024 10:06 34°02'27"S 27°27'54.24"E Pacaltsdorp, George, 6534 NW	Bins in the site camp.
 HillLand Environmental QWWTW 28.08.2024 09:40 34°04'57.72"S 27°46'59.33"E Unnamed Road, Pacaltsdorp, Pacaltsdorp, George SE	Wooden droppers and danger tape used to demarcate the working zone and haul road. The sides of the road have been rehabilitated and have successfully revegetated.

	 HillLand Environmental OWWTW Donga 12.09.2024 09:56 34°0'22.41"S 22°27'54.5"E Pacaltsdorp, George, 6534 SE	Construction materials stored in the site camp.
	 HillLand Environmental Donga 18.09.2024 11:30 34°0'22.47"S 22°27'54.29"E Pacaltsdorp, George, 6534 SE	Ablution facilities available in the site camp. Construction and safety signage is up.

 HillLand Environmental OWWTW Donga 12.09.2024 10:01 34°0'27.68"S 22°27'52.47"E Unnamed Road, Pacaltsdorp, Paarl, South Africa 6534 SE N	Construction of the outlet manhole.
--	--

	 Hill and Environmental OWWTW 08.10.2024 09:45 34.00778, 22.46449 Unnamed Road, Pacaltsdorp, Pacaltsdorp, George		
	 Hill and Environmental OWWTW 28.09.2024 08:53 34.00754, 22.46506 Unnamed Road, Pacaltsdorp, Pacaltsdorp, George		Excavation of the pipeline. Excavator track on the right and pipeline excavation on the left. Material on the excavator track was re-used for backfilling.

 HillLand Environmental OWWTW 21.08.2024 10:36 -34.0078; 22.46459 Unnamed Road, Pacaltsdorp, George W	Construction of the gabion retaining wall behind the stormwater headwall.
 HillLand Environmental OWWTW 08.10.2024 09:47 -34.00778; 22.46279 Unnamed Road, Pacaltsdorp, George SE	Energy dissipating headwall

	Silt fence along the river is maintained.
	Rehabilitation of top section shows no erosion

 Hill and Environmental OWWTW 08-10-2024 09:43 34.00738; 22.46521 Unnamed Road, Pacaltsdorp, Pacaltsdorp, George	Commencement of the replacement of the temporary stormwater infrastructure
---	---

Conclusion

The site is appropriately demarcated with wooden droppers with danger tape flags. Construction vehicles are staying on the designated haul road. Silt fences and sandbags are in place to prevent silt and construction materials from washing into the river. The stormwater outlet headwall and gabion structure are completed. Final shaping is still to be completed.

The replacement of the temporary stormwater infrastructure commenced. The pipeline is installed and backfilled. Final tie ins to be completed.

The contractor is compliant with the Directive in terms of Section 24G (1) of the National Environmental Management Act 107 of 1998.