

WATER USE AUTHORIZATION APPLICATION RISK MATRIX

THE PROPOSED GEORGE KERRIDGE HOUSING DEVELOPMENT ON ERF NO.
8270 AND PORTION 4 OF FARM 132, VREDENBURG, WESTERN CAPE.



Prepared by: Nicolaas Hanekom
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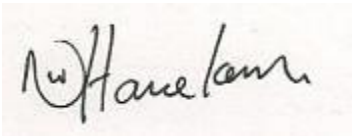
JANUARY 2024

DECLARATION OF THE SPECIALIST

Note: Duplicate this section where there is more than one specialist.

I **Nicolaas Willem Hanekom**, as the appointed Specialist hereby declare/affirm the correctness of the information provided or to be provided as part of the application, and that:

- In terms of the general requirement to be independent:
 - other than fair remuneration for work performed in terms of this application, have no business, financial, personal or other interest in the development proposal or application and that there are no circumstances that may compromise my objectivity; or
- In terms of the remainder of the general requirements for a specialist, have throughout this EIA process met all of the requirements;
- I have disclosed to the applicant, the EAP, the Review EAP (if applicable), the Department and I&APs all material information that has or may have the potential to influence the decision of the Department or the objectivity of any Report, plan or document prepared or to be prepared as part of the application; and
- I am aware that a false declaration is an offence in terms of Regulation 48 of the EIA Regulations.



Nicolaas Hanekom
Pri.Sci.Nat 004415

1 January 2024

Signature of the EAP/ Specialist:

Date:

Enviro-EAP (Pty) Ltd

Name of company (if applicable):

This Risk Matrix is for the Water Use Authorization Application for the development. Activities trigger water use registration that impacts on the regulated zones. This Risk Matrix assists DWS to determine where the proposed development triggers a Water Use License Authorization (WULA) or Water Use General Authorisation (WUGA). The risk assessment is based on the Department of Water and Sanitation 2015 publication: Section 21c and i water use Risk Assessment Protocol in Government Gazette no. 40229 dated 26 August 2016.

The closest wetland was mapped approximately 120m northwest of the proposed development site.



Photograph 1: Mapped NFEPA Wetland. Proposed housing development site in background of photograph behind and left of the existing residential development.

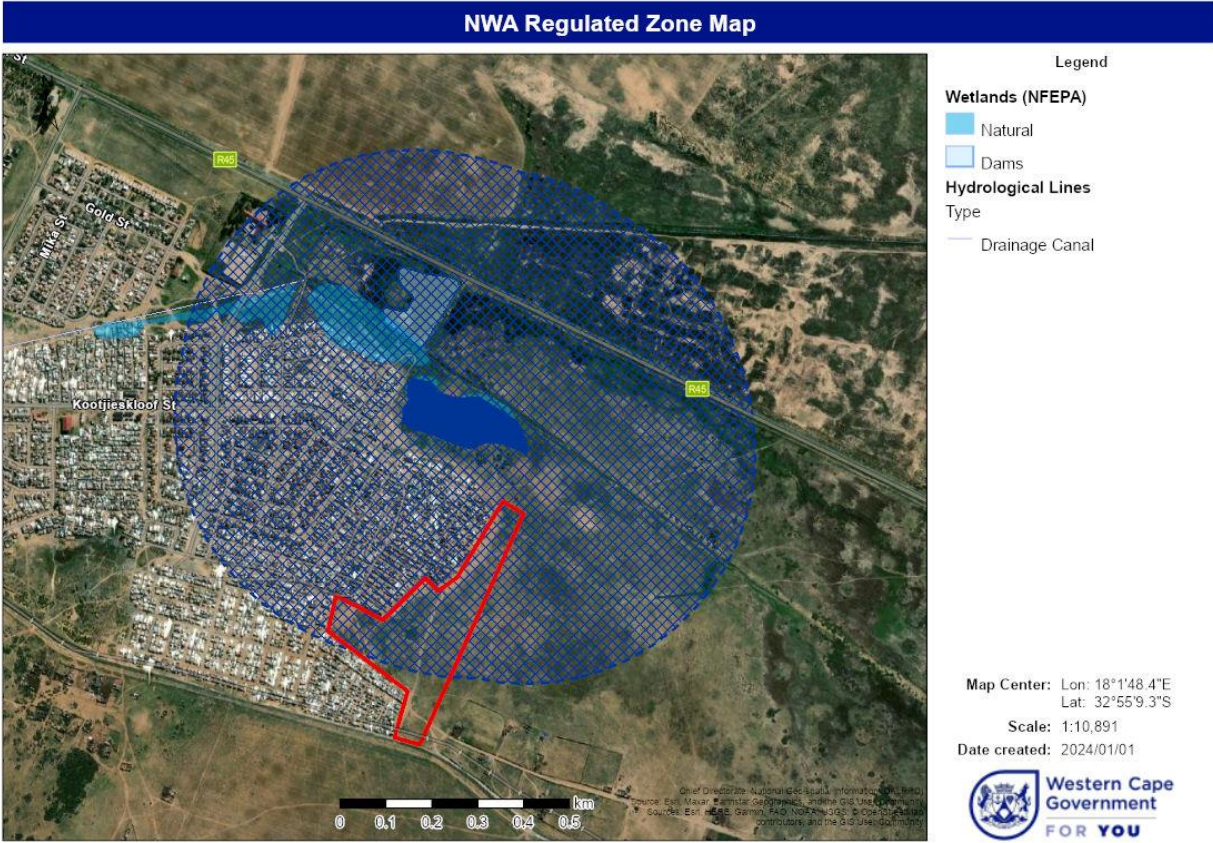


Figure 1: Delineated wetland and 500m buffer regulated zone

Risk Assessment Matrix - Total Severity Score with Mitigation

					Severity					
No	Phases	Activity	Aspect	Impact	Flow Regime	Physico & Chemical (Water Quality)	Habitat (Geomorph + Vegetation)	Biota	Total Severity Score	
1	Construction phase	Infrastructure development impacts on a wetland.	Infrastructure development impacts on a wetland.	Infrastructure development impacts on a wetland.	1- The hydrological impacts on aquatic ecosystems, associated with proposed development will not be impacted or affect. Existing residential developments already inside the 500m regulated zone impacting on the wetland. This development is further away as the existing residential development.	1- Water quality not be affected by the proposed development, provided that erosion control is in place and buffer areas intact.	1- Wetland is largely modified. The PES result for the wetland is category E.	1- The EIS was calculated for the importance of ecosystem services provided and the result points to moderate importance and sensitivity.	1	
2	Operational Phase	Infrastructure development impacts on a wetland.	Infrastructure development impacts on a wetland.	Infrastructure development impacts on a wetland.	1- The hydrological impacts on aquatic ecosystems, associated with proposed development will not be impacted or affect. Existing residential developments already inside the 500m regulated zone	1- Water quality not be affected by the proposed development, provided that erosion control is in place and buffer areas intact.	1- Wetland is largely modified. The PES result for the wetland is category E.	1- The EIS was calculated for the importance of ecosystem services provided and the result points to moderate importance and sensitivity.	1	

					impacting on the wetland. This development is further away as the existing residential development.						
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Risk Assessment Matrix – Final Risk Rating

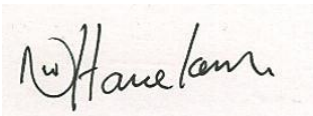
No.	Severity	Spatial scale	Duration	Consequence	Frequency of activity	Frequency of impact	Legal issues	Detection	Likelihood	Significance	Risk Rating
1	1	1	1	3	1	1	5	1	16	48	Low
2	1	1	1	3	1	1	5	1	16	48	Low

Risk Assessment Matrix – Confidence Level and Proposed Post Control/Mitigation Measures

No.	Risk Rating	Confidence level	Control measures	Borderline LOW – MODERATE Rating Classes	PES and EIS of Watercourses
1	48 Low	90%	None	Low- unchanged	Refer to above
2	48 Low	90%	None	Low- unchanged	Refer to above

Recommendations in Terms of Water Use Application Requirements

The overall risk rating of potential Impacts on the applicable river is rated as low negative.



Nicolaas Hanekom Pri Sci Nat (Ecology).
Registration number 004415



herewith certifies that
Nicolaas Willem Hanekom

Registration Number: 004415

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)

in the following field(s) of practice (Schedule 1 of the Act)

Ecological Science (Professional Natural Scientist)
Aquatic Science (Candidate Natural Scientist)
Conservation Science (Candidate Natural Scientist)

Effective 27 July 2011

Expires 31 March 2024



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