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Version 4

ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr)

In terms of
the National Environmental Management Act (Act no. 107 of 1998), as amended and the
Environmental Impact Assessment Regulations (2014, as amended)

for
**THE CONSTRUCTION OF THE REGIONAL RESERVOIR AND ASSOCIATED INFRASTRUCTURE FOR THE
MOSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSEL BAY**



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**THE DEVELOPMENT OF THE REGIONAL RESEVOIR FOR MOSSEL BAY AREA ON FARM VAALE
VALLEY 219, MOSSEL BAY**

Submitted for:

Commencement

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Details of the EAP who compiled this report:

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National Environmental Management Act

An EMPr must comply with Section 24N of NEMA and the Environmental Impact Assessment Regulations 2014 (GN 982 Appendix 4) which requires that it must include the following:

REQUIREMENTS	REPORT SECTION
(a) details of- (i) the EAP who prepared the EMPr; and (ii) the expertise of that EAP to prepare an EMPr, including a curriculum vitae;	Annexure F
(b) a detailed description of the aspects of the activity that are covered by the EMPr as identified by the project description;	Section 2
(c) a map at an appropriate scale which superimposes the proposed activity, its associated structures, and infrastructure on the environmental sensitivities of the preferred site, indicating any areas that should be avoided, including buffers;	Annexure B
(d) a description of the impact management [objectives] outcomes, including management statements, identifying the impacts and risks that need to be avoided, managed and mitigated as identified through the environmental impact assessment process for all phases of the development including- (i) planning and design; (ii) pre-construction activities; (iii) construction activities; (iv) rehabilitation of the environment after construction and where applicable post closure; and (v) where relevant, operation activities;	Sections 5 & 6
(e) a description and identification of impact management outcomes required for the aspects contemplated in paragraph (d);	
(f) a description of proposed impact management actions, identifying the manner in which the impact management [objectives and] outcomes contemplated in paragraph (d) [and (e)] will be achieved, and must, where applicable, include actions to – (i) avoid, modify, remedy, control or stop any action, activity or process which causes pollution or environmental degradation; (ii) comply with any prescribed environmental management standards or practices; (iii) comply with any applicable provisions of the Act regarding closure, where applicable; and (iv) comply with any provisions of the Act regarding financial provision for rehabilitation, where applicable;	
(g) the method of monitoring the implementation of the impact management actions contemplated in paragraph (f);	Sections 5 & 6
(h) the frequency of monitoring the implementation of the impact management actions contemplated in paragraph (f)	
(i) an indication of the persons who will be responsible for the implementation of the impact management actions;	
(j) the time periods within which the impact management actions contemplated in paragraph (f) must be implemented;	Sections 5 & 6
(k) the mechanism for monitoring compliance with the impact management actions contemplated in paragraph (f);	
(l) a program for reporting on compliance, taking into account the requirements as prescribed by the Regulations;	Section 10
(m) an environmental awareness plan describing the manner in which- (i) the applicant intends to inform his or her employees of any environmental risk which may result from their work; and	Section 6.1.1 & Annexure D

(ii) risks must be dealt with in order to avoid pollution or the degradation of the environment; and	
(n) any specific information that may be required by the competent authority.	N/A

1 INTRODUCTION

HillLand Environmental, independent Environmental Assessment Practitioners (EAP), have been appointed by the applicant, **Mossel Bay Municipality**, represented by **Bigen Africa**, to ensure compliance with the regulations contained in the National Environmental Management Act (NEMA, No 107 of 1998, as amended), the Environmental Impact Assessment Regulations, 2014 (as amended) and Condition 7 of the Addendum to the Environmental Authorisation (7 July 2023) for the Regional Reservoir and associated infrastructure for Mossel Bay Area on Farm Vaale Valley 219, Mossel Bay.

This EMPr was updated to include the amendments of the Environmental Authorisation (28 August 2013) and update the description of the authorised activities (7 July 2023).

The monitoring of compliance of the EMPr is mandatory in terms of the construction phase and a compliance reporting is required at the **end** of the construction phases.

This EMPr must be included in the tender documents of **all** prospective contractors and must also be included in the final contract awarded. **The EMPr must be regarded as binding on all contractors, sub-contractors, agents, consultants and construction staff on the property.**

The full and approved EMPr will be made available to all contractors working on the project. Certain fundamental aspects are therefore of importance:

- The EMPr and these requirements are binding on all contractors and their sub-contractors.
- **It is the responsibility of the applicant/ holder** to ensure that his/her main contractor and any sub-contractors are made aware of the environmental requirements for working on the project.
- The contractor(s) will be required to make good any damage caused through their actions or the actions of their sub-contractors (in addition to any penalties for non-compliance issued).

Please note that this EMPr is a dynamic document, which will grow and be changed with new developments in the field as the need arises.

2 DEVELOPMENT PROPOSAL

The development of an additional reservoir will attend to the municipal storage capacity for the potable water demand within Mossel Bay area (Please refer to Annexure A & B). The proposed connecting pipeline is required to supply potable water to Monte Christo and future developments as part of the Municipal Master Plan of water supply for the greater Mossel Bay area.

The technical components that will be installed in the first phase are as follows:

- A 125 m x 500 mm diameter PVC-O gravity pipeline from the 7ML reservoir to a T-piece supplying the Hartland and Outeniquasbosch pipelines separately.
- 685 m x 315 mm diameter PVC-O gravity line from the tee -piece to the existing 1 ML Monte Christo Reservoir (Outeniquasbosch Development).

- A 1 980 m x 450 mm diameter PVC-O gravity pipeline from the T-piece to the connection point next to District Road R102. The length of the pipeline next to the road is approximately 700 m.
- A 6,0 m wide servitude for the pipes and maintenance road.

The **first phase** of construction entailed the construction of a 7 Mℓ reservoir within the identified and approved area with the supporting infrastructure and rising main from the booster pump station to the reservoir. Provision has been made for a future 7 Mℓ reservoir adjacent to the first reservoir.



Figure 1: Final Site Development Plan – Bigen Africa May 2023 (Please refer to Annexure B) this plan includes the detail design from Bigen Africa as per May 2023 (3658.00.00.GZA.05.G003), replacing the July 2020 design plan from V3 Consulting Engineers that formed part of the first phase construction of the first 7Mℓ reservoir and rising main pipeline.

Please note that the pipeline route has changed slightly from that of the route proposed in the BAR in order to use the existing farm tracks and not cause undue disturbance through the agricultural lands and allows for 2 phased approach to the approved 15 Mℓ reservoir – Rising Main Pipeline is already installed June 2022.

3 CONDITIONS OF THE ENVIRONMENTAL AUTHORISATION

The following conditions are extracted from the Environmental Authorisation (EA) (EG12/2/4/1/D6/27/0014/12 - **28/08/2013**) AND Amendment of the EA (16/3/3/5/D6/29/0010/18 – dated **20 September 2018**) AND Amendment EA (16/3/3/5/D6/29/0005/23 – dated **7 July 2023**) as are relevant to environmental management. The full EA's are included in the appendices. It is **binding** on the contractors, sub-contractors, agents, consultants and construction staff on the property.

16/3/3/5/D6/29/0005/23 – dated 7 July 2023

1. The applicant must, in writing, within 14 (fourteen) calendar days from the date of the Department's decision on this application–
 - 1.1 notify the landowner and all registered interested and affected parties registered in the previous EIA process of–
 - 1.1.1 the outcome of the application;
 - 1.1.2 the reasons for the decision;
 - 1.1.3 the date of the decision; and
 - 1.1.4 the date of issue of the decision;
 - 1.2 draw the attention of all interested and affected parties registered in the previous EIA process, including the landowner, to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, 2014 (as amended) in section D below;
 - 1.3 draw the attention of the landowner and all registered interested and affected parties registered in the previous EIA process to the manner in which they may access the decision.

Notification of Amendment EA was sent to registered I&AP's on 10 July 2023.

2. The holder of the environmental authorisation must within thirty (30) calendar days of the issue of this amendment decision, provide the competent authority with written proof of compliance with condition 1 above.

Written proof of compliance with condition 1 sent to competent authority on 13 July 2023.

16/3/3/5/D6/29/0010/18 – dated 20 September 2018

1. Condition 1 of the environmental authorization issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12, must read as follows:

"The environmental authorisation is valid until 28 August 2023. The holder must undertake at least one of the authorised activities on or before 28 August 2023 or this environmental authorisation lapses and a new application for environmental authorisation must be submitted to the competent authority"

*The development's construction phase must be concluded within ten years (**10**) years from the date on which the first listed activity is commenced."*

By implication if the second reservoir has not been completed within 10 years of the commencement of construction (January 2021), then an application to amend this condition will be required to extend the validity period of the construction phase to allow for the construction of the second reservoir.

2. All other information contained in the Environmental Authorisation issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12 remains unchanged and is still in force.

EG12/2/4/1/D6/27/0014/12 – dated 28 August 2013

1. **As substituted by Amendment EA – September 2018** - The environmental authorisation is valid until 28 August 2023. The holder must undertake at least one of the authorised activities on or before 28 August 2023 or this environmental authorisation lapses and a new application for environmental authorisation must be submitted to the competent authority"

The development's construction phase must be concluded within ten years **(10) years** from the date on which the first listed activity is commenced.

2. The listed activity, including site preparation, may not commence within 20 (twenty) calendar days of the date of issue of this Environmental Authorisation. – may not commence prior to **11th October 2018**.
4. The holder of the Environmental Authorisation must give the competent authority written notice of commencement of the construction activities and provide proof of compliance with the following specified conditions of authorisation. The holder must-
- 4.1. within thirty (30) calendar days of the date of issue of this decision give notice, with proof of compliance with conditions 2 and 3 above; (start date and notification of I&AP's of the right to appeal)
- 4.2. give seven (7) calendar days notice before commencement of construction activities. This notice must include proof of compliance with the following conditions described herein, namely: Condition 7 and 8. – **give notice of commencement of construction date -**
5. **As substituted by Amendment EA – 7 July 2023** - This Environmental Authorisation is for the construction of infrastructure associated with the development of the proposed reservoirs on a portion of the Farm Vaale Valley No. 219, Mossel Bay and will include the following:

5.1 The infrastructure technical components include:

- A 125 m x 500 mm diameter PVC-O gravity pipeline from the 7ML reservoir to a T-piece supplying the Hartland and Outeniquasbosch pipelines separately.
- A 1 980 m x 450 mm diameter PVC-O gravity pipeline from the T-piece to the connection point next to District Road R102. The length of the pipeline next to the road is approximately 700 m.
- A 6,0 m wide servitude for the pipes and maintenance road.

5.2 The proposed infrastructure will be constructed in accordance with the layout plan compiled by Bigen (Drawing number 3658.00.00.GZA.05.G003 dated May 2023) Attached to this Environmental Authorisation as Annexure 2."

6. Any changes to, or deviations from the scope of the description set out in Condition 5 or Section B must be accepted or approved, in writing, by the competent authority before such changes or deviations may be implemented. In assessing whether to grant such acceptance/approval or not, the competent authority may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder to apply for further authorisation in terms of the applicable legislation. – **detail design plan attached to this report indicating pipeline route and phased reservoirs.**

7. This Environmental Authorisation may only be implemented in accordance with an approved Environmental Management Programme ("EMPr") relevant to the application.

The draft EMPr" submitted as part of the application for Environmental Authorisation must be amended to contain the information prescribed in Appendix 4 of the Environmental Impact Assessment Regulations 2014 and must be submitted to this Department for approval prior to commencement of any activities on the site:

7.1. The EMPr must incorporate the following —

7.1.1. All the conditions given in this Environmental Authorisation; **this section (section 3)**

7.1.2. The ECO must conduct site inspections every two weeks during the construction phase (The frequency may be increased to weekly site inspections). **Included in section 10**

7.1.3. All ECO monitoring reports compiled monthly during the construction phase must be submitted to the competent authority quarterly (every three months), except when there is non-compliance observed, in which case the ECO must bring to the competent authority's immediate attention by means of a written report. **Included in section 10**

7.1.4. The ECO must conduct site inspections every two weeks during the rehabilitation phase and submit the ECO monitoring reports during this phase monthly. **Included in section 10**

7.1.5. Include the auditing schedule as set out by this Environmental Authorisation. **Included in section 8**

7.1.6. The rehabilitation of disturbed areas with appropriate local indigenous vegetation species, specifically where indigenous vegetation occurred. **Included in section 7**

Agricultural land that is disturbed due to the development activities should also be vegetated with indigenous vegetation species if such areas are not to be utilized for agricultural purposes. The EMPr must contain a list of local indigenous vegetation species that will be utilised.

Note: Failure to submit the revised EMPr to the Competent Authority at least 90-days prior to the construction activities commencing on site, may result in the competent authority not being able to process / review the revised EMPr prior to the intended date of commencement."

8. The holder must appoint a suitably experienced Environmental Control Officer ("ECO"), or site agent where appropriate, for the construction phase before commencement of any land clearing or construction activities to ensure compliance with the EMP and the conditions contained herein. – **ECO to be appointed**
9. A copy of the Environmental Authorisation and the EMP must be kept at the site where the listed activity will be undertaken. Access to the site referred to in Section C must be granted and the environmental authorisation and EMP must be produced to any authorised official representing the competent authority who requests to see it for the purpose of assessing and/or monitoring compliance with the conditions contained herein. The environmental authorisation and EMP must also be made available for inspection by any employee or agent of the applicant who works or undertakes work at the site. – **copy of the EA is included in the EMPr and will be on site at all times**
10. The applicant must submit an application for amendment of the Environmental Authorisation to the competent authority where any detail with respect to the environmental authorisation must be amended, added, substituted, corrected, removed or updated. Further, the rights granted by this environmental authorisation are personal rights (i.e. not attached to a property, but granted to a natural or juristic person). As such, only the holder may undertake the activity authorised by the competent authority. Permission to transfer the rights and obligations contained herein must be applied for in the following manner: **the holder will appoint a contractor to undertake the activity on their behalf.**

- 10.1. The applicant must submit an originally signed and dated application for amendment of the environmental authorisation to the competent authority stating that he/she wishes the rights and obligations contained herein to be transferred, and including (a) confirmation that the environmental authorisation is still in force (i.e. that the validity period has not yet expired or the activity was lawfully commenced with); (b) the contact details of the person who will be the new holder; (c) the reasons for the transfer; (d) an originally signed letter from the proposed new holder acknowledging the rights and obligations contained in the Environmental Authorisation and indicating that he has the ability to implement the mitigation and management measures and to comply with the stipulated conditions.
- 10.2. The competent authority will issue an amendment to the new holder either by way of a new Environmental Authorisation or an addendum to the existing environmental authorisation if the transfer is found to be appropriate.
11. The holder is responsible for ensuring compliance with the conditions by any person acting on his behalf, including an agent, sub-contractor, employee or any person rendering a service to the holder. – **noted and included in this report**
12. Non-compliance with a condition of this Environmental Authorisation of EMP may result in suspension of this Environmental Authorisation and may render the holder liable for criminal prosecution. - **noted**
13. The applicant must notify the competent authority in writing, within 24 hours thereof if any condition herein stipulated is not being complied with. - **noted**
14. Notwithstanding this Environmental Authorisation, the holder must comply with any other statutory requirements that may be applicable to the undertaking of the listed activity. - **noted**
15. An integrated waste management approach, which is based on waste minimisation and incorporates reduction, recycling, re-use and disposal, where appropriate, must be employed. Any solid waste must be disposed of at a landfill licensed in terms of the applicable legislation. – **noted and included in this report**
16. 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 article of value or antiquity; stone artefacts and bone remains; structures and other built features; rock art and rock engravings; and graves or unmarked human burials. – **noted and included in this report**
A qualified archaeologist must be contacted 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. – **noted**
17. **As inserted by Amendment EA – 7 July 2023** - The Holder must, for the period during which the environmental authorisation and EMP remain valid ensure the compliance with the conditions of the environmental authorisation and the EMP, is audited.
18. **As inserted by Amendment EA – 7 July 2023** - During the non-operational phase of the development (construction activities), the frequency of auditing of compliance with the conditions of the environmental authorisation and of compliance with the EMP, must adhere to the following programme:
 - 18.1. During the period which the development activities have been commenced with on the site, the Holder must ensure annual environmental audit(s) are undertaken and the Environmental Audit Report(s) submitted annually to the Competent Authority.

- 18.2. A final Environmental Audit Report for the construction phase (non-operational component) must be submitted to the Competent Authority within three (3) months of completion of the construction phase.

Note: Failure to complete the final auditing requirements at least three months prior to expiry of the validity period of the environmental authorisation may result in the Holder not being able to comply with all the environmental auditing and reporting requirements and may result in the competent authority not being able to process the audit timeously.

19. **As inserted by Amendment EA – 7 July 2023** - The Environmental Audit Report(s), must–
- 19.1. be prepared and submitted to the Competent Authority, by an independent person with the relevant environmental auditing expertise. Such person may not be the ECO or EAP who conducted the EIA process;
 - 19.2. provide verifiable findings, in a structured and systematic manner, on–
 - 19.2.1. the level of compliance with the conditions of the environmental authorisation and the EMPr and whether this is sufficient or not; and
 - 19.2.2. the ability of the measures contained in the EMPr to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
 - 19.3. identify and assess any new impacts and risks as a result of undertaking the activity;
 - 19.4. evaluate the effectiveness of the EMPr;
 - 19.5. identify shortcomings in the EMPr;
 - 19.6. identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr;
 - 19.7. indicate the date on which the construction work was commenced with and completed or in the case where the development is incomplete, the progress of the development and rehabilitation;
 - 19.8. indicate the date on which the maintenance/ rehabilitation was commenced with and the progress of the rehabilitation;
 - 19.9. include a photographic record of the site(s) applicable to the audit; and
 - 19.10. be informed by the ECO reports.
20. **As inserted by Amendment EA – 7 July 2023** -The Holder must, within 7 calendar days of the submission of the audit report to the Competent Authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and on a publicly accessible website (if applicable)."

4 TERMS OF REFERENCE

The main terms of reference of this EMPr are to identify and mitigate any potential negative environmental impacts that may be associated with the construction of the Regional Reservoir and associated infrastructure for Mossel Bay Area with associated infrastructures (pipelines and pump stations) on Farm Vaale Valley 219, Mossel Bay.

The full and approved EMPr must be made available to all contractors working on the project and must be included in all tender documentation. Certain fundamental aspects are therefore of importance:

The EMPr and these requirements are binding on all contractors and their sub-contractors.

It is the responsibility of the applicant/ holder to ensure that any contractor(s) or sub-contractor(s) is made aware of the environmental requirements.

The contractor will be required to make good any damage caused through their actions or the actions of their sub-contractors (in addition to any penalties for non-compliance issued).

4.1 ENVIRONMENTAL CONTROL OFFICER (ECO)

An environmental control officer (ECO) must be appointed to oversee land clearing and construction activities associated with the Environmental Management Programme (EMPr) and to assist with issues as they arise on site.

It will be the ECO's responsibility to ensure that the mitigation / rehabilitation measures and recommendations referred to in the EMPr are implemented and complied with by the applicant.

The **applicant** will be responsible for the remuneration of the ECO and any other expenses encountered in the process of environmental monitoring of the construction.

4.1.1 SELECTION OF THE ECO

The appointed ECO must be able to demonstrate that (s)he is of sufficient competency to undertake the required task. This includes:

- Previous experience of environmental control of similar sites.
- Working experience with contractors.
- Knowledge of the particular project and expected areas of concern.

4.1.2 ROLES AND RESPONSIBILITIES OF THE ECO

The ECO will undertake the following tasks:

- Ensure **compliance** with the EMPr at all times during the construction phase;
- To work in close co-operation with the engineer, contractors of the site;
- Meet with the contractors to set out the environmental parameters within which they must work;
- Provide an **Environmental Induction (Environmental Education)** with all contractors **prior** to the commencement of any work;
- Indicate where all no-go areas are to be demarcated and to ensure adherence to these delimitations at the induction session **BEFORE** any construction commences on-site (pre-construction phase);
- Indicate where **erosion protection and siltation prevention measures** are required or need to be supplemented and to ensure correct implementation;
- Advise on **rehabilitation measures** according to the different areas along the pipeline route;
- Check up on general environmentally friendly construction practices (e.g. no littering, safe and secure environment, contamination risks, etc.);
- Ensure that the correct earthworks practices are adhered to; e.g. no encroachment into the surrounding vegetation, separation of topsoil and subsoil, correct stockpiling and stripping of topsoil);
- Provide a report back at site meetings to report on and assess the success of the environmental control and to determine any further environmental control measures which is necessary;
- The ECO must visit the site **every second week** during the **construction phase of the reservoirs** and rehabilitation thereof, **weekly inspections** during the construction of the

pipeline and rehabilitation thereof. The ECO is to be available at any time as required by the contractors, resident engineer or authorities;

- The ECO has the discretion to undertake more frequent visits if he/she feels this is justified due to the actions of the contractors and to make ad hoc visits in order to ensure compliance;
- The ECO is to keep a site diary; a photographic record of activities taking place on site as well as copies of all monthly reports compiled, a schedule of current site activities including the monitoring of such activities and complaints register of all public complaints and the remedies applied to such complaints;
- **Monthly monitoring report** must be submitted to the resident engineer and applicant during the **construction phase** and every three months to DEADP (except where there is non-compliance observed, in which case the ECO must bring to the competent authority's immediate attention by means of a written report) – condition 7.1.3;
- The ECO is to submit a **completion report** to the competent authority (**DEADP**) and **applicant** upon completion of the construction phase or phases of construction as the case may be;
- It must be noted that the **ECO HAS THE AUTHORITY TO SUSPEND WORK ON SITE FOR ANY ACTION BEING UNDERTAKEN THAT DOES NOT COMPLY WITH THE ENVIRONMENTAL REQUIREMENTS OF THE SITE**. Such a stop order has immediate effect and will be communicated through the resident engineer to the contractor responsible.

5 MANAGEMENT OUTCOMES AND OBJECTIVES

The following objectives and outcomes were identified:

Objective: Prevention of soil erosion

Impacts to avoid:

- Unnecessary disturbance of soil
- Unnecessary disturbance of vegetation
- Loss of soil on disturbed areas

Management actions:

- Areas susceptible to erosion must be covered / protected and erosion mitigation measures must be implemented
- Rehabilitation must be done following construction and to the satisfaction of the ECO

Management Outcome:

- Soil erosion will be kept to a minimum.

Objective: Prevention of pollution

Impacts to avoid:

- Potential leaks from vehicles/construction machinery
- Spillages of hazardous substances (if any)
- Leakage of chemical ablution facilities
- Contamination run-off from the construction site
- Waste, such as construction materials etc., which can be blown / washed away into the surrounding environment

Management actions:

- Vehicles and machinery must be well-maintained
- Drip-trays must be used for vehicles / machinery
- Ablution facilities must be well-maintained and regularly emptied
- Litter control essential throughout construction and operational phases
- Cement / concrete must be mixed on an impermeable surface or concrete batching areas must have surrounding bunding to prevent the movement out of the area of spillage
- Management must be sound
- Monitoring by contractor and ECO

Management Outcome:

- No contamination of the environment and adjacent sensitive area (North).

Objective: Prevention of impact of potential heritage resourcesImpacts to avoid:

- Damage to potential heritage resources on the property

Management actions:

- As per the EMPr, should any heritage resources be discovered, work will cease and HWC will be contacted to advise further

Management Outcome:

- Potential heritage impacts are mitigated and avoided

6 SPECIFICALLY REQUIRED ENVIRONMENTAL MANAGEMENT PRACTICES

6.1 PRE-CONSTRUCTION PHASE

6.1.1 ENVIRONMENTAL INDUCTION (EDUCATION)

- All construction staff **must** be briefed by the ECO in an environmental education programme regarding the environmental status and requirements of the site, **prior** to any activities commencing on site. This will include providing general guidelines for minimizing environmental damage during construction, as well as education with regards to basic environmental ethics, such as prevention of littering, the lighting of fires, etc. Records of environmental training (attendance register and training content) must be kept. Please refer to Annexure D of this EMPr.
- Induction required for **all contractors** prior to them commencing on site.

6.1.2 METHOD STATEMENT

- Method statements will be requested by the ECO based on the specific activity and environment on site (case specific) and must be submitted to the ECO for approval prior to commencement of such activity. The following list (not exhaustive) of topics may be requested by the ECO:

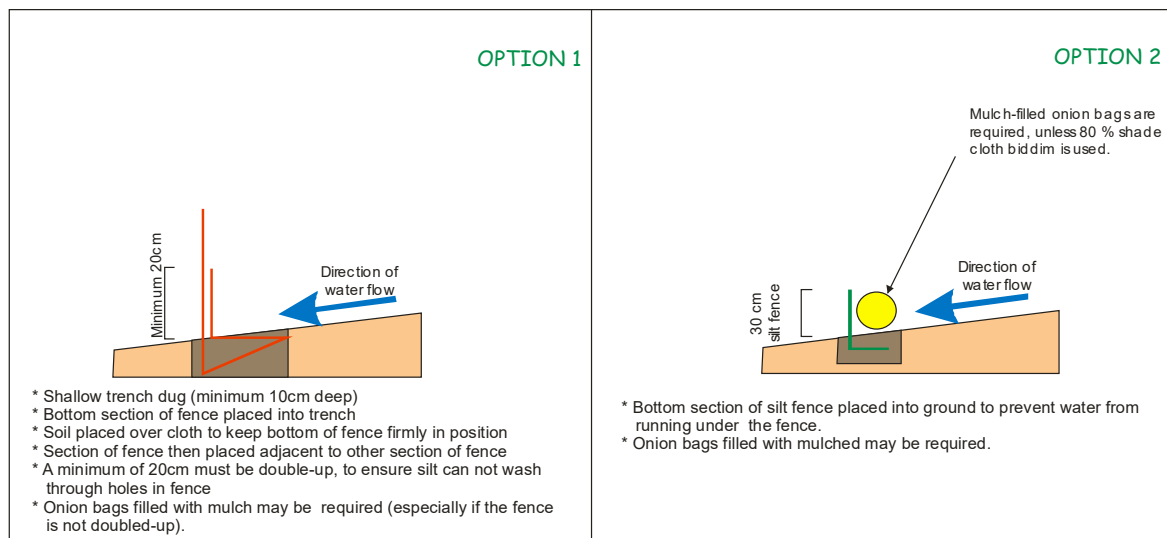
- o Location of the construction camp
- o Storage of construction materials and hazardous substances (**if any**)
- o Location of any stockpile sites for topsoil
- o Location of any stockpile sites for subsoil
- o Solid waste
- o Erosion and sedimentation control
- o Fire control
- o Protection of natural features
- o Cement and concrete batching
- o Trenching

The ECO is to approve the method statement **before** the works commence. A pro-forma method statement showing what is required is attached in Annexure E.

6.1.3 SOIL AND EROSION PROTECTION

- As topsoil is a valuable resource, it must be stripped from all construction areas **before work commences in that specific area** and stockpiled at an area approved by the ECO.
- Any surplus subsoil that needs to be stockpiled for cut and fill operations must be stockpiled in an approved stockpile area as agreed to by the ECO.
- No pollutants (e.g. Bedding sand, cement etc.) to be dumped on site;
- Silt fencing needs to be installed before construction works commence (in the areas with a steep slope, or as instructed by the ECO) to ensure that there is limited movement of silt on site.

The silt fences can be constructed as indicated below:



6.1.4 SPECIFIC REQUIREMENTS IN TERMS OF THE PALEONTOLOGICAL IMPACT ASSESSMENT

- **Before construction starts**, a professional palaeontologist must be commissioned to record and judiciously sample petrified wood and any other significant fossil material exposed during the construction phase of the project, while bedrock excavations for the reservoir are still unsealed – **Dr John Almond was commissioned to conduct the site inspection of the reservoir site and pipeline route in January 2021** “This is to confirm that we did not observe any fossil material within the reservoir and pipeline footprint, that

there are no palaeontological heritage objections to further construction, and no further specialist palaeontological mitigation is considered to be necessary, pending the discovery of any change fossil finds." – Dr J Almond – **no further inspections are deemed necessary.**

- The Environmental Control Officer (ECO) responsible for the reservoir development must be aware of the possibility of important fossils (e.g. shells, petrified wood, plant remains, trace fossils, mammalian bones and teeth) being present or unearthed on site and must regularly monitor all substantial excavations into superficial sediments as well as fresh (i.e. unweathered) sedimentary bedrock for fossil remains;
- Should it be suspected that an object or structure of heritage or paleontological value has been uncovered during earthworks or the clearing of vegetation (including but not limited to bones, burial sites, structures older than 50 years, stone tools, shell middens, pottery etc.), then all work is to immediately **cease** and the ECO is to be contacted to inform Heritage Western Cape (HWC). Work shall not recommence until HWC have visited the site, inspected the object in question and advised on how to proceed. If the object requires removal by a trained archaeologist, this process will be at the expense of the developer. It is the contractor's responsibility to ensure all staff on site is aware of this procedure.

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Pre-construction and Construction phases							
Earthworks required during the construction phase for the construction of the reservoir	Construction of the reservoir	Should any object or structure of heritage value be discovered, work is to cease, ECO is to be contacted and advise accordingly	Pre-construction and construction phase	A professional palaeontologist be commissioned to record and judiciously sample petrified wood and any other significant fossil material exposed. ECO to monitor compliance during the pre-construction and construction phase	Continual monitoring of compliance	Contractor to ensure that work ceases should any object or structure of heritage value be discovered and the ECO should be contacted The ECO is to contact HWC and advise accordingly	To be included in compliance monitoring report
Potential erosion during the construction phase	Construction of the reservoir and associated infrastructure	The contractor is to comply with the EMPr requirements regarding erosion prevention. Emergency erosion protection materials (sandbags, geotextile fabric, shade cloth and/or biddum) are	During the construction phase	ECO and contractor to continually monitor the site during construction for signs of potential erosion	ECO to conduct weekly inspections of construction works	ECO and contractor to monitor the site	ECO to monitor during the construction phase. To be included in the monthly monitoring report.

		to be kept on-site to treat erosion area as soon as it appears. Silt fences to be installed at steep slope areas before construction commences.					
Paleontological Monitor during excavation	Construction of the reservoir and pipeline	Applicant to appoint a professional palaeontologist to monitor excavation during construction of reservoirs and pipeline.	Paleontological Monitor to be commissioned before construction begins, i.e. monitoring must be done during excavation of reservoirs and pipeline	Paleontological Monitor during excavation and report to the ECO	ECO to ensure Paleontological Monitor is on site for all excavation	ECO to ensure that the Paleontological monitor is on site during all excavations, Applicant to appoint the Paleontological monitor	Paleontological monitor to provide a written report to the ECO to be included in the ECO monitoring report

6.2 GENERAL CONSTRUCTION REQUIREMENTS

6.2.1 CONSTRUCTION OF THE RESERVOIR (APPLICABLE FOR THE CONSTRUCTION OF EACH RESERVOIR)

- The construction area must be demarcated to prevent any encroachment into agricultural or sensitive vegetation areas.
- All topsoil must be stripped from the area required and stockpiled in the site camp for later use in rehabilitation.
- It must be noted that the topsoil **must not be contaminated** with any other material e.g. sub soils etc.
- All excess soils that won't be used must be disposed of at a licensed landfill site.
- Care must be taken when working with concrete, no concrete to be spilled or mix on the ground. This must be done on suitable trays.
- Appropriate (ECO approved) silt fences or traps must be installed to ensure that all construction runoff (and contaminated) water and material is confined to the construction area.

6.2.2 CONSTRUCTION OF THE PIPELINE

- The contractor together with the engineer must peg the entire route of the pipeline so that the ECO can point out specific sensitive areas (if any) so that the ECO can supply the contractor with a method statement for construction in the sensitive areas.
- Plant search and rescue of indigenous plants (if any) within the footprint of the pipeline must be done before site clearing. The rescued plants must be replanted at the end of construction.
- Site clearance will be limited to the pipeline route (1m) with allowance made of 6m (3m each side of pipeline) work space.
- Topsoil to be stockpiled for rehabilitation after construction;

- Silt fences or sandbag rows (or any suitable alternative) to be used to prevent any soil erosion and/or contaminated runoff water/material from entering sensitive areas.

6.2.3 ACCESS TO THE SITE

- No unauthorized access to the site permitted – gate to be kept closed at all times.
- Construction vehicles to use existing access routes or if not available can only use one route per site to minimize the potential environmental impact. These access routes must be confirmed prior to construction with the appointed ECO.
- The access roads will be upgraded and repaired but **not** widened. The roads will either be surfaced with gravel or a two spoor concrete track will be made.
- Access to the area is to be monitored during construction.
- The contractor(s) will ensure that vehicles leaving the site are clean and, wherever possible, do not deposit mud, any other earth material and concrete on the road surface. Where this is unavoidable, it must be cleaned on a daily basis and is not be permitted to enter the storm water system.

6.2.4 SITE AGENT

- The contractor must appoint a responsible agent to ensure that they comply with this EMPr and all its conditions. This party is to report directly to the ECO and will need to attend the induction and be briefed on the requirements by the ECO.

6.2.5 USE OF LOCAL LABOUR

- It is strongly recommended that local labour is used for the construction phase of this project. "Local" implies people within the Mossel Bay area. Contractor to keep record and report on in the meeting minutes/agenda, for record purposes.

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Construction phase							
Construction of the reservoir	Construction phase of the reservoir	Topsoil must be stripped and stockpiled; Construction area must be demarcated; Silt fences or suitable alternative must be installed; Concrete mixing must not be on the direct ground surface.	During the construction phase	ECO inspections and contractor and management to ensure compliance	Every second week monitoring	Engineer. Contractor. ECO.	ECO to monitor. To be included in the monthly monitoring report
Construction and installation of the pipeline	Construction phase of the reservoir	Topsoil must be stripped and stockpiled;	During the construction phase	ECO inspections and contractor and management to ensure compliance			

		Construction area must be demarcated; Silt fences or suitable alternative must be installed; Concrete mixing must not be on the direct ground surface.					
Management of access to the site	Construction of the reservoir and associated infrastructure	Contractor to monitor and regulate access to the site; Construction vehicles leaving the site must be clean to prevent siltation on the R102	During the construction phase	ECO inspections and contractor and management to ensure compliance			
Socio-economic benefits through the creation of short- and long-term employment	Construction of the reservoir and associated infrastructure	The use of local labour to maximise positive benefit to the local area	During the construction phase	ECO inspections and contractor and management to ensure compliance	Monthly monitoring		

6.2.6 DEMARCATION OF NO-GO AREAS

Due to the nature of the proposed development along an existing road, a No Go zone must be demarcated on the side of the road and on the proposed site for the reservoir. This is in order to prevent any additional damage to the farmer's land and access by the construction staff to private property. These No – Go areas need to be clearly marked.

- All people working on site must be made aware of the boundaries within which work is to be done.
- Construction work will only be allowed within the demarcated work area, this include all construction material and equipment to be kept inside this area.
- The ECO must approve the demarcation prior to construction commencing.
- **The No-Go areas must be kept clear of any construction material/vehicles as well as stock piling of vegetation matter and topsoil**
- All construction activities must be **restricted** to the demarcated areas to ensure that no further disturbance into the surrounding vegetation.
- No encroachment or activities is permitted to take place outside the work areas.
- Storage sites for construction material and access must be approved by the ECO prior to commencing (and areas will require rehabilitation after use).
- No-Go areas will be required to be demarcated by the contractor to ensure that they are visible at all times, to all personnel.
- Methods of demarcation will be agreed with the ECO and can include danger tape,

rope, fencing, shade cloth, wire fencing etc.

- In light of the above, should access be required through a no-go area, permission must be obtained from the ECO in writing prior to the use of such an area.
- The ECO must monitor adherence to the No-Go area policy.
- Access into the No-Go areas by personnel is strictly forbidden (i.e. Work breaks such as lunch are not permitted outside the defined work area - no entry into the neighbouring properties or open space areas). A spot fine will be imposed against the contractor in the event of contravention of the no-go policy up to a maximum of R5 000 per incident).

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Construction phase							
Demarcation of no-go areas and protection of sensitive areas	Construction of the reservoir and associated infrastructure	The contractors are to comply with the requirements of the EMPr Demarcation of working areas is required by means of shade netting and danger tape / netting	During the construction of the reservoir and installation of the associated infrastructure (pipeline etc.)	ECO and contractor to continually monitor compliance during construction	ECO to conduct weekly inspections of construction works	Contractor to implement no-go demarcation ECO and contractor to monitor the site	ECO to monitor during the construction phase. To be included in the monthly monitoring report

6.2.7 CONSTRUCTION SITE CAMP

Should a contractor's site camp need to be established, the following requirements will need to be adhered to:

- The contractors' site camp is to be set up in the area indicated and approved by the ECO for this purpose.
- The contractors' site camp, offices and storage facilities shall not be located within or adjacent to an environmentally sensitive area
- Where possible (and if required), sub-contractors are to use the same site camp as the main contractor as to ensure minimal disturbance of the surrounding areas.
- The areas are to be treated as indicated for topsoil removal etc. Topsoil to be used for reinstating the site once construction completed.
- The camp is to be cordoned off and no encroachment beyond the approved site will be permissible.
- Portable ablution facilities (chemical toilets) are to be provided at the camp site for use of the staff. **Additional facilities are to be provided closer to areas of work at all times (minimum of one toilet shall be provided per 15 persons at each working area).**
- A fenced off area must be created within the camp site for refuse and waste management.
- No open fires are to be permitted due to the risk of fire.
- Adequate signage must be erected at the main entrance to the construction site to ensure that safety regulations are adhered to.

- **No** temporary diesel storage tanks are allowed to be brought to the site.

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Construction phase							
Construction site camp and storage of construction material	Construction of the reservoir and associated infrastructure	Appropriate (ECO approved) demarcation; Topsoil stripped and stockpiled; Necessary erosion protection and silt fences must be installed.	During the construction phase	ECO and contractor to continually monitor the site during construction	ECO to conduct weekly inspections of construction works	Contractor to ensure compliance ECO and contractor to monitor the site	ECO to monitor during the construction phase. To be included in the monthly monitoring report

6.2.8 STORAGE OF CONSTRUCTION MATERIAL

The following must be adhered to (**if not within the construction site camp**):

- All stockpile sites to be approved by the ECO **prior** to the commencement of stockpiling.
- All stockpile sites to be properly demarcated with silt-fences and/or danger tape, where necessary.
- Silt protection measures around stockpile sites must be implemented, if required.
- **No** construction material is to be stored outside of the site camp / boundary without written permission from the ECO.

6.2.9 FIRE PROTECTION

- There is a **medium risk** of wild fires occurring on the site. However, the contractor must take all responsibility and active steps to avoid increasing the risk (especially to prevent damage to surrounding farmlands and vegetation). **No** open fires or naked flames for heating or cooking shall be allowed on site. The contractor must ensure that all personnel are aware of the fire risk and the need to extinguish cigarettes before disposal. Cigarettes shall not be disposed of in the veld and must be disposed of properly in receptacles.

No burning of waste on ANY PART of the site is permitted.

- The Contractor MUST notify the authorities responsible for fighting fires in the area and shall liaise with them regarding procedures should a fire start. The Contractor shall ensure that his staff are aware of the fire danger at all times and are aware of the procedure to be followed in event of a fire. The Contractor shall also ensure that all the necessary telephone numbers etc. are posted at conspicuous and relevant locations in the event of an emergency. The Contractor shall advise the relevant authority of a fire as soon as one starts and shall not wait until he can no longer control it.

6.2.10 HEALTH AND SAFETY

- The H&S Officer is to copy the ECO in on his/her reports for record purposes.

6.2.11 WASTE MANAGEMENT

- It is recommended that an integrated waste management approach must be used that is based on waste minimisation and must include reduction, recycling, re-use and disposal where appropriate. Only approved waste disposal methods are allowed. The contractor shall ensure that all site personnel are instructed in the proper disposal of all waste. The contractor shall ensure that **sufficient disposal facilities** are available.
- **Recycling** must be encouraged on-site and recycling bins must be provided and clearly marked.
- Disposal of all waste materials must be done at suitable facilities. **No dumping** of any waste material on or off-site is permitted.
- The contractor shall ensure that the site is maintained in a **neat and tidy** condition and kept **free of litter (including the adjacent open space area)**. Measures must be taken to reduce the potential for litter and negligent behavior with regard to the disposal of all refuse. At all places of work, the contractor shall provide **litter bins, containers** and **refuse collection facilities** for later disposal. Litter to be removed from the site on a **daily** basis (through daily litter picking before the site is closed for the day). Rubbish bins must be provided on-site and regularly cleaned / emptied.
- **Solid waste (construction rubble etc.)** is to be temporarily stored on-site in a **designated area** approved by the ECO prior to collection and disposal. Solid waste must be removed on a **weekly basis** to a licensed municipal waste site.
- Waste storage **containers** shall be covered, tip-proof, weatherproof and scavenger proof. The **waste storage area** shall be **fenced off** to prevent wind-blown litter.
- The contract staff must be clearly briefed on the 'no litter policy'. **The site is to be kept clean of litter, even if it is not caused by the contractor staff.**

6.2.12 ABLUTION FACILITIES

- Contractors must provide chemical ablution facilities for all construction personnel working on the site. The number of chemical toilets required must adhere to the H&S requirements applicable at the time of the contract.
- Toilets shall be of a **neat** construction and shall be provided with doors and locks and shall be secured to prevent them from blowing over.
- Sanitation provision and servicing shall be to the satisfaction of the environmental control officer (ECO).
- The contractor shall ensure that the toilet(s) are emptied **regularly** and also **before** weekends and public holiday periods.
- Failure to use the chemical toilet provided and making use of the vegetation either on or off-site **will result in maximum penalty fine being awarded in addition to requiring the contractor to clean up.**

6.2.13 CONCRETE AND CEMENT WORKS

The contractors will use ready-mix concrete for the reservoir but when any other concrete work take place on site then it **must be mixed on trays and not directly on the soil**. **No** concrete or cement contaminated water is allowed to be disposed of anywhere along the construction route or in the adjacent sensitive vegetation area (to the north).

- **Any concrete batching plant areas** are to be approved by the ECO prior to utilisation and must be equipped with suitable settling ponds and trapping mechanisms to ensure that contaminated water does not leave the restricted area (**Bunding** through the use

of sandbag walls around any mixing areas is recommended).

- No ready-mix trucks are permitted to rinse their tanks on site or along the access roads to and from the site. **Any spillage is to be immediately cleaned by the responsible contractor / supplier / owner.**
- **Contaminated soil** from such bunds to be disposed of at the municipal waste disposal site.

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Construction phase							
Cement and concrete works	Construction of the reservoir and associated infrastructure	Cement and concrete works are to comply with the EMPr Appropriate bunding and mixing on impermeable surfaces must be implemented	During the phase	ECO and contractor to continually monitor the site during construction	ECO to conduct weekly inspections of construction works	Contractor to implement mitigation measures as per the EMPr ECO and contractor to monitor the site	ECO to monitor during the construction phase. To be included in the monthly monitoring report

6.2.14 NOISE, DUST MANAGEMENT AND NUISANCE MEASURES

- During construction, work is limited to normal working hours as dictated by the local authority.
- Dust mitigation measure must be implemented as required. This will include spraying of water on gravel roads or exposed areas that generate dust or covering haul roads / exposed areas with wood chip to reduce the generation of dust – where necessary.
- Dust management includes the management of dust off any stockpile sites
- Temporary stockpile sites shall not be placed in areas that are going to result in a nuisance or eyesore to neighbours.

7 REHABILITATION PHASE

Rehabilitation of damaged areas will include, but is not limited to the following:

- All building rubble and waste must be completely removed and disposed of at an approved landfill site;
- Compacted topsoil must be raked loose;
- Agricultural areas to be reinstated as required by the landowner;
- Existing farm tracks / roads used during construction to be left to the satisfaction of the landowner;
- Contaminated soil must be disposed of at an approved landfill site;
- Stockpiled topsoil to be placed back (on top) and NOT compacted;
- Indigenous grass seed must be sown within the disturbed and affected areas (as indicated by the ECO);
- Implementation of additional erosion control methods as required
- Planting of screening vegetation around the reservoirs can be considered and ECO will advise on suitable species.
- Any rescued indigenous plants of the pipeline route must be replanted once backfill, shaping and topsoil is replaced.

- Indigenous grass seed mixture must be spread on disturbed areas – mix should be equal parts of kweek grass, *Eragrostis Curvula* (weeping love grass) and winter rye.
- Maintenance of storm water system until handed over to the local authority.
- The rehabilitation of disturbed areas must be done with appropriate local indigenous vegetation species, specifically where indigenous vegetation occurred. Agricultural land that is disturbed due to the development activities should also be vegetated with indigenous vegetation species, if such areas are not to be utilized for agricultural purposes.

Activities	Size and Scale	Mitigation Measures	Timeframe for Implementation	Method of Monitoring Implementation	Frequency of Monitoring	Responsible Persons	Compliance Monitoring
Rehabilitation phase							
Rehabilitation of damaged areas	Construction of the reservoir and associated infrastructure	Rehabilitation measures must be implemented as per the EMPr All building rubble must be completely removed and disposed of at an approved landfill site; Compacted topsoil must be raked loose; Contaminated soil must be disposed of at an approved landfill site; Indigenous grass seed can be sowed within required areas (as indicated by the ECO); & Implementation of additional erosion control methods as required	During construction phase as section are completed and after construction phase, before site handover.	Contractor to implement mitigation measures ECO and contractor to monitor rehabilitation phase	ECO to conduct weekly inspections of when implemented.	Contractor to implement mitigation measures ECO and contractor to monitor rehabilitation phase	ECO to monitor during construction and rehabilitation phase. ECO to submit final compliance monitoring report upon completion of construction and. To be included within compliance report.

8 AUDIT REQUIREMENTS

- The Holder must, for the period during which the environmental authorisation and EMPr remain valid ensure the compliance with the conditions of the environmental authorisation and the EMPr, is audited.
- During the non-operational phase of the development (**construction activities**), the frequency of auditing of compliance with the conditions of the environmental

authorisation and of compliance with the EMP, must adhere to the following programme:

- o During the period which the development activities have been commenced with on the site, the Holder must ensure **annual environmental audit(s)** are undertaken and the Environmental Audit Report(s) submitted annually to the Competent Authority.
- o A final Environmental Audit Report for the construction phase (non-operational component) must be submitted to the Competent Authority within three (3) months of completion of the construction phase.

Any additional environmental auditing must be undertaken as required by the EA or as determined by the Environmental Regulations applicable at the time. The audit report must adhere to the requirements of the applicable legislation and / or regulations at the time.

9 OPERATIONAL PHASE

Operational phase monitoring would be done if and when the applicant (Mossel Bay Municipality) needs to do inspections or repairs on the reservoir, pipeline or associated infrastructure.

The applicant can choose to appoint an Environmental Control Officer (ECO) or make use of the Mossel Bay in-house Environmental Officer for the duration of the operational phase repairs to monitor compliance against the **CONSTRUCTION PHASE (Section 5)** of this Environmental Management Programme.

10 MONITORING REQUIREMENTS AND REPORTS

- An **induction** meeting with the ECO and the contractor to ensure that they are aware of the requirements of this EMP before the commencement of the installation of services or building works.
- Induction registers to be kept for all contractors on site.
- The ECO must inspect work areas prior to commencement and demarcate no-go areas or indicated areas of sensitivity.
- The ECO is to do a site inspection **once a week during pipeline construction and every second week during reservoir construction** and submit a **monthly** compliance monitoring report to the applicant/engineer and contractor. The reports must be submitted to the Competent authority quarterly (every three months) months), except when there is non-compliance observed, in which case the ECO must bring to the competent authority's immediate attention by means of a written report.
- The ECO monitoring reports are to advise on any remedial actions or changes that are required to the method statements in order to ensure that the impacts identified and any that can become evident are mitigated and managed. Should it be necessary the EMP must be updated / amended to take these into account if they cannot be adequately handled in a revised method statement.
- The ECO to ensure that the Palaeontological monitoring is undertaken and reported on as necessary (during excavation of the pipeline and reservoirs)

- Upon **completion** of a construction phase, a final monitoring report must be submitted by the ECO to sign-off compliance with environmental requirements. The report must be submitted to DEADP and the applicant. It is anticipated that there will be 3 phases – reservoir, pipeline and second reservoir.

11 DECOMMISSIONING PHASE

Should there ever be a need for decommissioning, decommissioning activities need to adhere to the applicable legislation at the time. All material foreign to the site must be removed from the site and must be disposed of at an approved waste disposal site.

Any material that can be recycled must be recycled.

12 PENALTIES FOR NON-COMPLIANCE

Penalties in terms of Chapter 9 of the Western Cape Bill on Planning and Development as published in the Extraordinary Provincial Gazette No 5183, 3 October 1997, are applicable for any action, which leads to damage to the natural environment.

In addition to the penalties in terms of the Act (NEMA), spot fines up to a maximum value of R10 000 per offence can be instituted at the discretion of the ECO for any breach or non-compliance in terms of the EMPr (FINES ISSUED WILL INCREASE EXPONENTIALLY FOR REPEAT OFFENCES).

In the event of damage being caused, the contractor will be responsible for the cost of cleanup, repair or rehabilitation as necessary, as well as being liable for the fine.

A fund is to be established for the collection of fines and the spending of this fund is to be at the discretion of the ECO for environmental rehabilitation of the area.

13 NATIONAL WATER ACT

The competent authority on the NWA, the Breede-Olifants Catchment Management Agency (BOCMA) confirmed that the installation of the Gravity Main pipeline within the servitude will not have a negative impact on the mapped non-perennial stream and will therefore not require General Authorisation (refer to Annexure H). Should the pipeline route change, then the appointed ECO must correspond with BOCMA to confirm NWA applicability.

14 CONCLUSION

This EMPr is binding on all contractors on site. The EMPr was updated to include the conditions of the Addendum to the EA (7 July 2023) and may be updated from time to time with new developments in the field as the need arises.

ANNEXURE A
Locality Map



Figure 1 Locality Map of the Indicative Water Pipeline Route and Regional Reservoir, Mossel Bay area

Aerial Image - NGI 2021
Cadastral Data - Surveyor General 2019
SDP - Bigen Africa May 2023

Projected Coordinate System: WGS_1984_UTM_Zone_34S
Prevailing Wind Direction: SSW
Scale: 1:5,688

Date: 17 July 2023
Drawn By: S Delpont
Project No: 472



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ANNEXURE B
Site Development Plan



GRAVITY PIPELINE TO HARTLAND – SETTING OUT COORDINATES		
POINT	X	Y
P1	3 774 182,186	81 850,843
P2	3 774 159,093	81 850,843
P3	3 774 159,092	81 894,002
P4	3 774 151,404	81 894,002
P5	3 774 084,409	81 910,750
P6	3 774 068,356	81 846,536
P7	3 774 043,907	81 748,741
P8	3 774 044,885	81 692,311
P9	3 774 033,540	81 666,755
P10	3 774 015,656	81 653,058
P11	3 774 000,368	81 642,277
P12	3 773 959,330	81 611,996
P13	3 773 894,060	81 563,834
P14	3 773 894,873	81 547,404
P15	3 773 894,886	81 545,523
P16	3 773 891,666	81 539,466
P17	3 773 923,903	81 519,317
P18	3 773 938,727	81 505,892
P19	3 773 957,257	81 489,110
P20	3 773 975,788	81 472,329
P21	3 773 994,318	81 455,547
P22	3 774 012,849	81 438,766
P23	3 774 031,379	81 421,984
P24	3 774 049,910	81 405,203
P25	3 774 068,440	81 388,421
P26	3 774 086,455	81 372,106

GRAVITY PIPELINE TO HARTLAND – SETTING OUT COORDINATES		
POINT	X	Y
P27	3 774 123,647	81 337,595
P28	3 774 132,968	81 310,387
P29	3 774 178,518	81 286,677
P30	3 774 204,869	81 242,880
P31	3 774 239,926	81 184,613
P32	3 774 263,461	81 145,486
P33	3 774 357,279	81 082,488
P34	3 774 454,808	81 017,010
P35	3 774 464,808	81 018,730
P36	3 774 488,295	81 016,366
P37	3 774 474,539	81 012,132
P38	3 774 491,070	81 001,839
P39	3 774 546,980	81 074,809
P40	3 774 590,838	81 120,309
P41	3 774 596,252	81 126,813
P42	3 774 602,730	81 121,433
P43	3 774 627,345	81 152,232
P44	3 774 632,006	81 155,907
P45	3 774 635,986	81 151,441
P46	3 774 678,990	81 183,333
P47	3 774 725,633	81 219,390
P48	3 774 721,958	81 224,595
P49	3 774 795,743	81 279,585
P50	3 774 875,201	81 340,476
P51	3 774 954,674	81 401,308
P52	3 775 038,225	81 465,019

GRAVITY PIPELINE TO OUTENIQUASBOSCH – SETTING OUT COORDINATES		
POINT	X	Y
P5	3 774 084,409	81 910,750
P53	3 774 080,238	81 911,793
P54	3 774 086,896	81 938,428
P55	3 774 157,697	82 072,694
P56	3 774 205,473	82 307,103
P57	3 774 208,659	82 504,946
P58	3 774 154,633	82 525,405
P59	3 774 162,486	82 569,831
P60	3 774 145,769	82 528,786
P61	3 774 148,958	82 546,820

LEGEND:

- NEWLY CONSTRUCTED 250mm ø uPVC RISING MAIN
- PROPOSED COMBINED 500mm ø GRAVITY SUPPLY PIPELINE TO THE HARTLAND AND OUTENIQUASBOSCH DEVELOPMENT
- PROPOSED 315mm ø GRAVITY SUPPLY PIPELINE TO THE OUTENIQUASBOSCH DEVELOPMENT
- PROPOSED 450mm ø GRAVITY SUPPLY PIPELINE TO THE HARTLAND DEVELOPMENT

VERSION / AMENDMENTS			
No.	DATE	DESCRIPTION	AUTH. BY



Mossel Bay
MUNICIPALITY

PROJECT TITLE:

VAALE VALLEI PUMP STATION (MECHANICAL AND ELECTRICAL) AND GRAVITY FEED PIPELINES

DRAWING TITLE:

PROPOSED GRAVITY MAIN PIPELINES TO THE HARTLAND AND OUTENIQUASBOSCH DEVELOPMENTS



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Doing good while doing business

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Avanti Building
3rd Floor North Block
Carl George Drive
Belville

Phone: + 27 (0) 21 919 6976
capetown@bigengroup.com

ORIGINAL DRAWING SCALE: 1:2000	ORIGINAL DRAWING SHEET SIZE: A0
SURVEYED	DESIGNED
DRAWN C. NAIDOO	CHECKED H. AASRTSMA
CORRECTION SYSTEM WGS84	DATE MAY 2023

APPROVED ON BEHALF OF BIGHEN

DRAWING No.: **3658.00.00.GZA.05.G003** VERSION: **A.0**

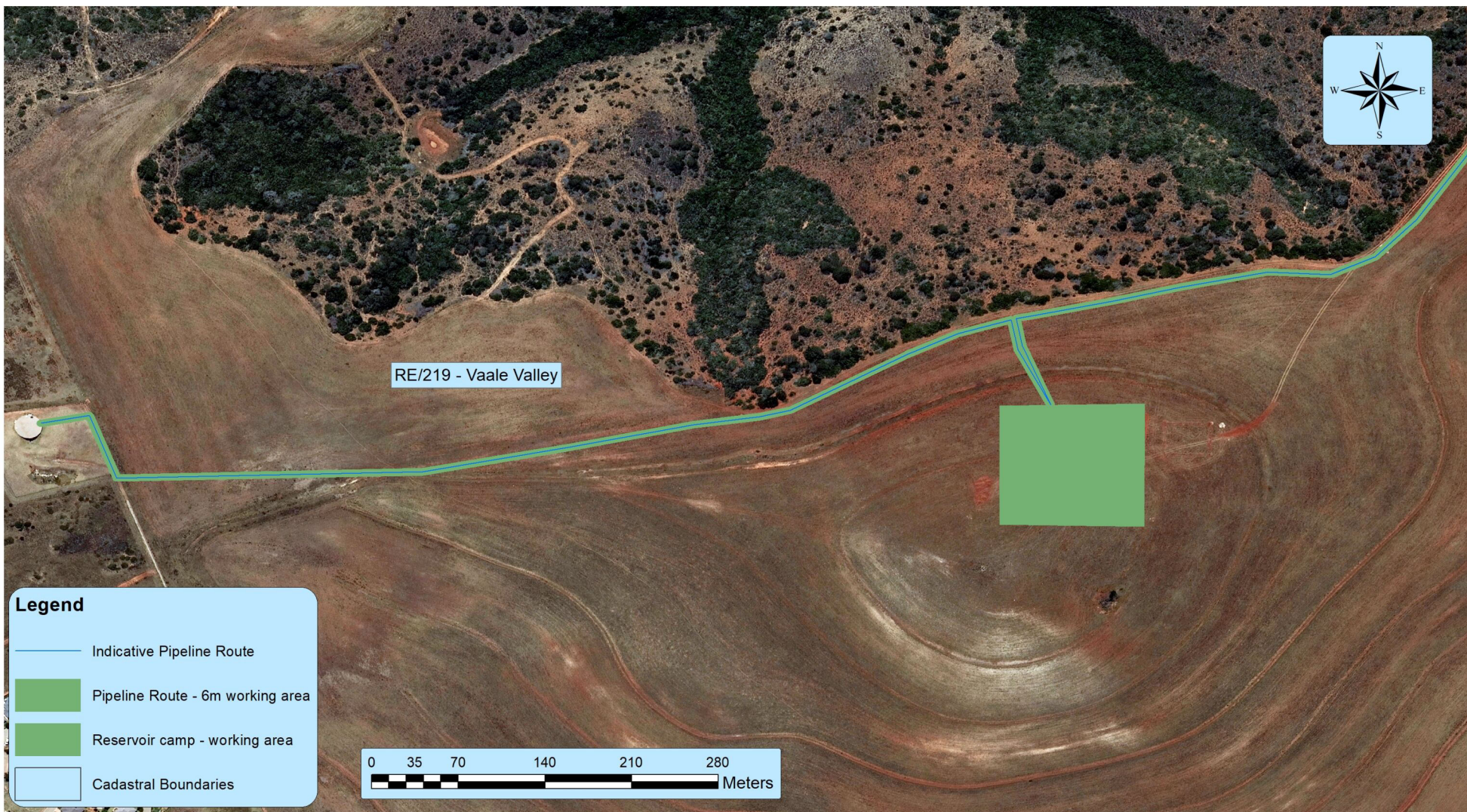
APPROVED ON BEHALF OF CLIENT:

NAME:

DATE:

CLIENT DRAWING No.: CLIENT REF No:

ANNEXURE C
No-Go Mapping



Working area (6m) for the pipeline route and Reservoir camp

Aerial Image - NGI 2021
Cadastral Data - Surveyor General 2019
SDP - Bigen Africa - May 2023

Projected Coordinate System: WGS_1984_UTM_Zone_34S
Prevailing Wind Direction: SSW
Scale: 1:1,490

Date: 18 July 2023
Drawn By: S Delpont
Project No: 472



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@hiland.co.za
www.hiland.co.za



Working area (6m) for the pipeline route

Aerial Image - NGI 2021
Cadastral Data - Surveyor General 2019
SDP - Bigen Africa - May 2023

Projected Coordinate System: WGS_1984_UTM_Zone_34S
Prevailing Wind Direction: SSW
Scale: 1:1,490

Date: 18 July 2023
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Working area (6m) for the pipeline route

Aerial Image - NGI 2021
Cadastral Data - Surveyor General 2019
SDP - Bigen Africa - May 2023

Projected Coordinate System: WGS_1984_UTM_Zone_34S
Prevailing Wind Direction: SSW
Scale: 1:1,490

Date: 18 July 2023
Drawn By: S Delpont
Project No: 472



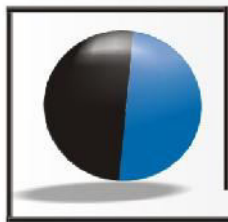
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ANNEXURE D

Environmental Induction Sheet
and Register

	Workers & equipment must stay inside the site boundaries at all times		Use the toilets provided Report full or leaking toilets
	Do not swim in or drink from streams Do not throw oil, petrol, diesel, concrete or rubbish in the stream Do not work in the stream without direct instruction Do not damage the banks or vegetation of the stream		Only eat in demarcated eating areas Never eat near a river or stream Put packaging & leftover food into rubbish bins
	Protect animals on the site Ask your supervisor or Contract's Manager to remove animals found on site		Do not litter - put all rubbish (especially cement bags) into the bins provided Report full bins to your supervisor The responsible person should empty bins regularly
	Do not damage or cut down any trees or plants without permission Do not pick flowers		Always keep to the speed limit Drivers - check & report leaks Ensure loads are secure & do not spill
	Put cigarette butts in a rubbish bin Do not smoke near gas, paints or petrol Do not light any fires without permission Know the positions of fire fighting equipment Report all fires		Know all the emergency phone numbers
	Work with petrol, oil & diesel in areas marked for this Report any petrol, oil & diesel leaks or spills Use a drip tray under vehicles & machinery Empty drip trays after rain & do not throw this water into a river		Spot fines of between R20 and R2000 Fines will be deducted from wages Removal from site Construction may be stopped
	Try to avoid producing dust - wet dry ground & soil		Report any breaks, floods, fires, leaks and injuries to your supervisor Ask questions!
	Do not make loud noises around the site, especially near schools and homes Report or repair noisy vehicles		
CONSTRUCTION PERSONNEL INFORMATION BOARDS: DO'S AND DON'T'S			



BASIC RULES OF CONDUCT WITH REGARD TO ENVIRONMENTAL MANAGEMENT

The following list represents the basic Do's and Don'ts towards environmental awareness, which all participants in this project must consider whilst carrying out their tasks. These are not exhaustive and serve as a quick reference aid.

NOTE: **ALL new site personnel must be briefed on** environmental awareness. Please inform your foreman or manager if you have not attended such a presentation or contact the Environmental Control Officer (ECO).

DO:

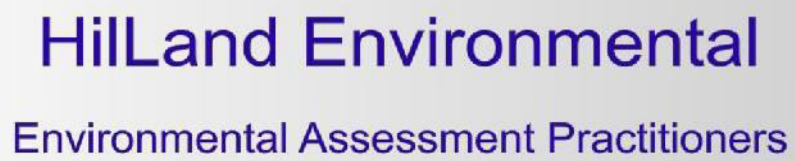
- USE THE TOILET FACILITIES PROVIDED.
- CLEAR YOUR WORK AREAS OF LITTER AT THE END OF THE WEEK.
- STORE LITTER IN THE BINS PROVIDED FOR THIS PURPOSE.
- CONFINE WORK AND STORAGE OF EQUIPMENT TO WITHIN THE IMMEDIATE WORK AREA.
- USE ALL SAFETY EQUIPMENT AND COMPLY WITH ALL SAFETY PROCEDURES.
- PREVENT CONTAMINATION OR POLLUTION OF STREAMS AND WATER CHANNELS.
- REPORT ANY INJURY OF AN ANIMAL.
- PREVENT EXCESSIVE DUST AND NOISE.
- ENSURE THAT SIGNAGE AND OTHER SAFETY MEASURES ARE IN PLACE AND MONITORED.

DO NOT:

- REMOVE OR DAMAGE VEGETATION WITHOUT DIRECT INSTRUCTION.
- MAKE ANY FIRES – no open flames or naked flames for heating or cooking shall be allowed unless at designated braai areas.
- BURN WASTE ON ANY PART OF THE SITE.
- INJURE, TRAP, FEED OR HARM ANY ANIMALS – this includes birds, frogs, snakes, lizards etc.
- ENTER ANY FENCED OFF OR MARKED AREA.
- SPEED OR DRIVE RECKLESSLY.
- ALLOW WASTE, LITTER, OILS OR FOREIGN MATERIALS ANYWHERE ON SITE.
- LITTER OR LEAVE FOOD LYING AROUND.
- ENTER NO-GO AREAS.

Notes:

1. **Should any animals such as tortoises or snakes be encountered do not harm them. They will move away by themselves.** The harming of any animal will result in disciplinary action. If there is a snake that poses a threat to humans, CapeNature must be contacted for the safe capture and removal of the snake.
2. Ensure that vehicles and machinery do not leak fuel or oils. Refuelling or maintenance must be done within the site camp area only.



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

DATE: _____

Project: _____

[illegible]

[illegible]

ANNEXURE E
Method Statement Form

METHOD STATEMENT

CONTRACT:

DATE:

PROPOSED ACTIVITY (give brief description and reference number from CEMP)

WHAT WORK IS TO BE UNDERTAKEN? (give a brief description of the works)

WHERE ARE THE WORKS TO BE UNDERTAKEN? (where possible, provide an annotated plan and a full description of the extent of works)

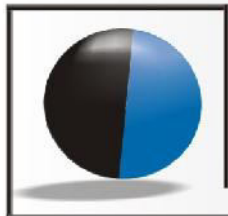
START AND END DATE OF WORKS FOR WHICH THE METHOD STATEMENT IS REQUIRED

Start Date:

End Date:

HOW ARE THE WORKS TO BE UNDERTAKEN? (provide enough detail, including annotated sketches and plans where possible)

ANNEXURE F
CV of EAP



Hilland Environmental

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E-mail: info@hilland.co.za
www.hilland.co.za

CATHERINE AVIERINOS

1970/06/19

BSc(Hons) Rhodes University

cathy@hilland.co.za

CURRICULUM VITAE 2023

Qualifications:

- 1991 Bachelor of Science (BSc.) Botany & Zoology, Rhodes University
- 1992 Bachelor of Science Honours (BSc Hons) Botany, Rhodes University
- Various LLB courses (Unisa)

Career:

- 1992 – present Director of Hilland Environmental (Pty) Ltd
Founder member of Hilland Associates cc and Hilland Environmental cc, Environmental Management Consultants
- 1993 – 1995 Part time Lecturer in Conservation Development, Saasveld Campus of the Port Elizabeth Technicon (now NMU).

Publications:

Over 1200 projects with all the associated documents commissioned as part of Environmental Impact Assessment Processes, Public Participation, Scoping, Environmental Management and specialist botanical reports.

Popular articles on Environmental Management.

Fields of Expertise:

30 years' experience in Vegetation Surveys, Vegetation Sensitivity Mapping, Biodiversity Assessments, Specialist Botanical Assessments, Environmental Impact Assessments, Basic Assessments, Environmental Impact Reports, Environmental Planning and Management, Rehabilitation, Environmental Management Plans & Frameworks, Strategic Conservation Planning with Multi Spectrum Participation, Environmental compliance monitoring and auditing, Public participation and facilitation, Water Use Applications, CARA applications, Environmental Rectification Assessments for S24G processes and Outeniqua Sensitive Coastal Area Applications.

Projects:

Leading and participating in over 1200 projects in terms of ECA and NEMA on a variety of Development Projects within Southern Africa.

Various Research Projects focusing on environmental management, planning, rehabilitation and GIS Mapping and interpretation (Viewshed and Visual Assessments)

Key projects –

- Golf Estate Impact Assessments – Oubaai, Kingswood, Pezula (Sparrebosch)
- Resorts – Phantom Forest Eco Reserve, Cairnbrogie Camps, Botlierskop Reserve expansion, Orange River Rafting expansion.
- Nautilus Bay Coastal Reserve (Visual Impact Assessment)

Celebrating 30 years of environmental consulting

- Residential developments – Outeniquasbosch Wildlife Village, Kraaibosch Estates, Welgelegen Estate, Pezula, Fernwood, Paradise Coast Eco Estate

Conferences & Associations:

- Participant in various National Conferences.
- Member of the International Association of Impact Assessors South Africa (IAIAsa).
- Founder chairperson of the Southern Cape branch of IAIAsa.
- Botanical Society of South Africa.
- South African Association of Botanists.
- Registration with EPASA (2019/1053)
- PrSciNat (Re-registration pending as membership lapsed)



STEFAN DELPORT

1992/09/02

BSc Stellenbosch University

EAPASA – 2019/1123

environmental@hilland.co.za

CURRICULUM VITAE (Abbreviated)

Qualifications:

- 2015 Bachelor of Science (BSc) Conservation Ecology and Entomology, Stellenbosch University
- 2021 Environmental Assessment Practitioners Association of South Africa (EAPASA) – 2019/1123

Career:

- February 2018 – present: Environmental Consultant at Hilland Environmental Consultants, George
- November 2016 – June 2017: Guide and animal handler at The Ann van Dyk Cheetah Centre, Hartbeespoort.
- December 2015 – September 2016: Assistant Reserve and Day Centre Manager at Fathala Wildlife Reserve, Senegal, West Africa

Publication:

Several reports commissioned as part of Environmental Impact Assessment Processes, Public Participation and Environmental Management.

Fields of Expertise:

5 years' experience in Vegetation Sensitivity Mapping, Biodiversity Assessments, Environmental Impact Assessments, Environmental Impact Reports, Environmental Planning and Management, Rehabilitation, Environmental Management Plans & Frameworks, GIS Mapping, Visual Assessment and interpretation (Viewshed), Water Use Applications, Outeniqua Sensitive Coastal Area Applications, Environmental compliance monitoring and auditing, Public participation and facilitation.

Projects:

Leading and participating in projects in terms of NEMA on a variety of Development Projects within the Western Cape.

- Construction of Hartland western access road
- Clearance of vegetation for cultivation of land
- Upgrading of the George Airport Precinct Access Road
- Expansion of Dagbreek Eiers Facility
- Closure and Capping of Unlawful Disposal site Concordia
- Construction of Reservoir and Pipeline for Uniondale
- Construction of Sewer line for Robberg Nature Reserve

ECO: Various projects including (but not limited to):

- ECO for installation of water pipeline between Hartenbos and Klein Brak WTW;
- ECO for Outeniqua Waste Water Treatment Works, previous phases;
- ECO for New Reservoir at George Water Treatment Works
- ECO for the Vaale Vallei Reservoir
- ECO for the construction and operational phase of residential developments in George, Hartenbos and Mossel Bay
- ECO for Routine Maintenance Projects between Mossel Bay, George, Plettenberg Bay and Oudtshoorn
- ECO for the construction of the New Vintage BP Filling Station, Hartenbos
- ECO for the operation of Doornfontein Sandmine
- ECO for the Modderug River Rehabilitation

ANNEXURE G
EA'S

REFERENCE: 16/3/3/5/D6/29/0005/23
NEAS REF.: WCP/EIA/AMEND/0000747/2023
DATE OF ISSUE: 07 July 2023

ADDENDUM TO ENVIRONMENTAL AUTHORISATION

APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 28 AUGUST 2013 (DEA&DP REF NO. EG12/2/4/1-D6/27-0014/12) FOR THE FOR THE REGIONAL RESERVOIR AND ASSOCIATED INFRASTRUCTURE FOR THE MOSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSEL BAY

With reference to your application for the abovementioned, find below the decision with respect to the application (submitted 14 June 2023) for the amendment to the Environmental Authorisation issued on 28 August 2013 (hereinafter referred to as an "Environmental Authorisation").

A. DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998, as amended) and the Environmental Impact Assessment Regulations, 2010, ("NEMA EIA Regulations") the competent authority herewith **grants** the amendment of the Environmental Authorisation issued on 28 August 2013 (DEA&DP Ref. EG12/2/4/1/D6/27/0014/12) in terms of Part 1 of Chapter 5 of the EIA Regulations, 2014 (as amended) .

The Environmental Authorisation (herein after referred to as the "original EA (as amended)") is amended as set out below:

1. Section B of the original EA (as amended) pertaining to the description of the authorised alternative related to the listed activities, is substituted with the following:

"The proposal entails the construction of the following infrastructure:

- A 125 m x 500 mm diameter PVC-O gravity pipeline from the 7ML reservoir to a T-piece supplying the Hartland and Outeniquasbosch pipelines separately.
- A 1 980 m x 450 mm diameter PVC-O gravity pipeline from the T-piece to the connection point next to District Road R102. The length of the pipeline next to the road is approximately 700 m.
- A 6,0 m wide servitude for the pipes and maintenance road

2. Section E: Condition 5 of the original EA (as amended) is substituted with the following:

"5. This Environmental Authorisation is for the construction of infrastructure associated with the development of the proposed reservoirs on a portion of the Farm Vaale Valley No. 219, Mossel Bay and will include the following:

5.1 The infrastructure technical components include:

- A 125 m x 500 mm diameter PVC-O gravity pipeline from the 7ML reservoir to a T-piece supplying the Hartland and Outeniquasbosch pipelines separately.
- A 1 980 m x 450 mm diameter PVC-O gravity pipeline from the T-piece to the connection point next to District Road R102. The length of the pipeline next to the road is approximately 700 m.
- A 6,0 m wide servitude for the pipes and maintenance road.

5.2 The proposed infrastructure will be constructed in accordance with the layout plan compiled by Bigen (Drawing number 3658.00.00.GZA.05.G003 dated May 2023) Attached to this Environmental Authorisation as Annexure 2."

Note: A copy of Annexure 2 is attached to this Addendum to the Environmental Authorisation.

3. Section E: Condition 7 of the original EA (as amended) is substituted with the following:

"7. This Environmental Authorisation may only be implemented in accordance with an approved Environmental Management Programme ("EMPr") relevant to the application.

The draft EMPr" submitted as part of the application for Environmental Authorisation must be amended to contain the information prescribed in Appendix 4 of the Environmental Impact Assessment Regulations 2014 and must be submitted to this Department for approval prior to commencement of any activities on the site:

7.1. The EMPr must incorporate the following —

7.1.1. All the conditions given in this Environmental Authorisation;

7.1.2. The ECO must conduct site inspections every two weeks during the construction phase (The frequency may be increased to weekly site inspections).

7.1.3. All ECO monitoring reports compiled monthly during the construction phase must be submitted to the competent authority quarterly (every three months), except when there is non-compliance observed, in which case the ECO must bring to the competent authority's immediate attention by means of a written report.

7.1.4. The ECO must conduct site inspections every two weeks during the rehabilitation phase and submit the ECO monitoring reports during this phase monthly.

7.1.5. Include the auditing schedule as set out by this Environmental Authorisation.

7.1.6. The rehabilitation of disturbed areas with appropriate local indigenous vegetation species, specifically where indigenous vegetation occurred.

Agricultural land that is disturbed due to the development activities should also be vegetated with indigenous vegetation species if such areas are not to be utilized for agricultural purposes. The EMPr must contain a list of local indigenous vegetation species that will be utilised.

Note: Failure to submit the revised EMPr to the Competent Authority at least 90-days prior to the construction activities commencing on site, may result in the competent authority not being able to process / review the revised EMPr prior to the intended date of commencement."

4. Section E of the original EA (as amended) is amended by the insertion of Conditions number 17, 18, 19 and 20 pertaining to environmental auditing requirements:

"17. The Holder must, for the period during which the environmental authorisation and EMPr remain valid ensure the compliance with the conditions of the environmental authorisation and the EMPr, is audited.

18. During the non-operational phase of the development (construction activities), the frequency of auditing of compliance with the conditions of the environmental authorisation and of compliance with the EMPr, must adhere to the following programme:

18.1 During the period which the development activities have been commenced with on the site, the Holder must ensure annual environmental audit(s) are undertaken and the Environmental Audit Report(s) submitted annually to the Competent Authority.

18.2 A final Environmental Audit Report for the construction phase (non-operational component) must be submitted to the Competent Authority within **three (3) months** of completion of the construction phase.

Note: Failure to complete the final auditing requirements at least three months prior to expiry of the validity period of the environmental authorisation may result in the Holder not being able to comply with all the environmental auditing and reporting requirements and may result in the competent authority not being able to process the audit timeously.

19. The Environmental Audit Report(s), must–

19.1 be prepared and submitted to the Competent Authority, by an independent person with the relevant environmental auditing expertise. Such person may not be the ECO or EAP who conducted the EIA process;

19.2 provide verifiable findings, in a structured and systematic manner, on–

19.2.1 the level of compliance with the conditions of the environmental authorisation and the EMPr and whether this is sufficient or not; and

- 19.2.2 the ability of the measures contained in the EMPr to sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.
- 19.3 identify and assess any new impacts and risks as a result of undertaking the activity;
- 19.4 evaluate the effectiveness of the EMPr;
- 19.5 identify shortcomings in the EMPr;
- 19.6 identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr;
- 19.7 indicate the date on which the construction work was commenced with and completed or in the case where the development is incomplete, the progress of the development and rehabilitation;
- 19.8 indicate the date on which the maintenance/ rehabilitation was commenced with and the progress of the rehabilitation;
- 19.9 include a photographic record of the site(s) applicable to the audit; and
- 19.10 be informed by the ECO reports.
20. The Holder must, within 7 calendar days of the submission of the audit report to the Competent Authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and on a publicly accessible website (if applicable)."
5. All other conditions contained in the Environmental Authorisation issued on 28 August 2013 remain unchanged and in force.

B. REASONS FOR THE DECISION

In reaching its decision, the Department took, *inter alia*, the following into consideration:

1. The information contained in the application for amendment dated 12 June 2023 and received by this Department on 14 June 2023.
2. The application for amendment of the the original EA (as amended) in terms of Part 1 of Chapter 5 of the EIA Regulations, 2014 (as amended) is regarded to be for a non-substantive change to the Environmental Authorisation as it will not change the scope of the valid environmental authorisation, nor increase the level or nature of the impact, which impact was initially assessed and considered when application was made for an environmental authorisation.
3. The amendment does not, on its own, constitute a listed activity. The listed activities authorised in the original EA (as amended) is similarly listed in terms of the EIA Regulations, 2014 (as amended).

4. The environment and the rights and interests of interested and affected parties ("I&APs") will not be adversely affected by the decision to amend the original EA (as amended).
5. The Environmental Authorisation issued on 28 August 2013 (DEA&DP Ref. EG12/2/4/1/D6/27/0014/12 / NEAS ref. WCP/EIA/0000841/2012) and subsequent amendment thereof listed as follows:

5.1. The Addendum to the original EA issued by this Department on 20 September 2018 (DEA&DP ref. 16/3/3/5/D6/29/0010/18 / NEAS ref. WCP/EIA/AMEND/0000307/2018).

6. The authorisation issued on 28 August 2013 originally included the following infrastructure technical components –
 - A 15ML reservoir;
 - A 125l/s @65 head booster pumpstation next to the District Road R102;
 - A 1250m x 400mm UPVC / GRP rising main between the booster pumpstation and the 15ML reservoir;
 - A 1675m x 600mm GRP gravity line for the reservoir to termination point next to District Road R102. The length of the pipe to road is approximately 600m;
 - 750m x 400mm UPVC / GPR gravity line between the 15ML reservoir to the existing 1ML reservoir located at Monte Christo estate;
 - A 6-metre-wide servitude for the pipes and maintenance road.

The amendment to the environmental authorisation has been informed by the following considerations:

- Changes in the environmental legislation and listed activities in 2017 and the new design parameters of the infrastructure has resulted in certain components of the proposed development no longer requiring environmental authorisation.
- The proposed development of the reservoir on the specific site no longer triggers a listed activity.
- It has been determined that the changes made to the design of the storage facility / size of the reservoir originally authorised in 2013 (namely, the development of two 7ML reservoirs within the same development footprint) does not require environmental authorisation. One of the 7ML reservoirs has already been constructed and completed in June 2022.
- The design and capacity of the rising main pipeline dimensions as well as the peak throughput of the head booster pumpstation have been reduced. This has resulted in the infrastructure (activity) no longer requiring environmental authorisation as it falls below the threshold of the relevant listed activity. This infrastructure has also been constructed and completed.
- The gravity line from the reservoir to the reservoir at the Monte Christo estate no longer triggers a listed activity and does not require environmental authorisation.
- The gravity line for the reservoirs to the termination point next to the District Road R102 (including gravity line to the T-piece) still trigger a listed activity which has been authorised. Similarly, the 6-metre-wide servitude for the pipes and maintenance road is included in this activity.

7. Due consideration has been given to the current legislative framework and the content requirements for and Environmental Authorisation and EMPr. In this regard conditions pertaining to the EMPr have been updated and additional conditions inserted to clarify the environmental auditing requirements applicable to the original EA (as amended).

C. CONDITIONS

1. The applicant must, in writing, within **14 (fourteen)** calendar days from the date of the Department's decision on this application–
 - 1.1 notify the landowner and all registered interested and affected parties registered in the previous EIA process of–
 - 1.1.1 the outcome of the application;
 - 1.1.2 the reasons for the decision;
 - 1.1.3 the date of the decision; and
 - 1.1.4 the date of issue of the decision;
 - 1.2 draw the attention of all interested and affected parties registered in the previous EIA process, including the landowner, to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, 2014 (as amended) in section D below;
 - 1.3 draw the attention of the landowner and all registered interested and affected parties registered in the previous EIA process to the manner in which they may access the decision.
2. The holder of the environmental authorisation must within thirty (30) calendar days of the issue of this amendment decision, provide the competent authority with written proof of compliance with condition 1 above.

D. APPEALS

1. An appellant (if the holder of the decision) must, within 20 (twenty) calendar days from the date the notification of the decision was sent to the holder by the Competent Authority–
 - 1.1. Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations 2014 (as amended) to the Appeal Administrator; and
 - 1.2. Submit a copy of the appeal to any registered I&APs including any Organ of State with interest in the matter; and
 - 1.3. Submit a copy of the appeal to the decision-maker (i.e. the Competent Authority that issued the decision) at:
Zaahir.Toefy@westerncape.gov.za and copied to:
DEADPEIAadmin.George@westerncape.gov.za
Gavin.Benjamin@westerncape.gov.za

2. An appellant (if NOT the holder of the decision) must, within 20 (twenty) calendar days from the date the holder of the decision sent notification of the decision to the registered I&APs–
 - 2.1. Submit an appeal in accordance with Regulation 4 of the National Appeal Regulations 2014 (as amended) to the Appeal Administrator; and
 - 2.2 Submit a copy of the appeal to the holder of the decision and any registered I&AP including any Organ of State with an interest in the matter; and
 - 2.3 Submit a copy of the appeal to the decision-maker (i.e. the Competent Authority that issued the decision) at:

Zaahir.Toefy@westerncape.gov.za and copied to:
DEADPEIAadmin.George@westerncape.gov.za
Gavin.Benjamin@westerncape.gov.za

3. The holder of the decision (if not the appellant), the decision-maker that issued the decision, the registered I&AP and the Organ of State must submit their responding statements, if any, to the appeal authority and the appellant within 20 (twenty) calendar days from the date of receipt of the appeal submission.
4. The appeal and the responding statement must be submitted to the Appeal Administrator at the address listed below:

By post: Western Cape Ministry of Local Government, Environmental Affairs
and Development Planning
Private Bag X9186
CAPE TOWN
8000

By facsimile: (021) 483 4174; or

By hand: Appeal Administrator
Attention: Mr Marius Venter (Tel: 021 483 3721)
Room 809
8th Floor Utilitas Building, 1 Dorp Street, Cape Town, 8001

Note: For purposes of electronic database management, you are also requested to submit electronic copies (Microsoft Word format) of the appeal, responding statement and any supporting documents to the Appeal Authority to the address listed above and/ or via e-mail to DEADP.Appeals@westerncape.gov.za.

5. A prescribed appeal form as well as assistance regarding the appeal processes is obtainable from the Appeal Administrator at: Tel. (021) 483 3721, E-mail DEADP.Appeals@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

E. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of this Addendum to the Environmental Authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is appreciated.

Yours faithfully

Zaahir Toefy

Digitally signed by
Zaahir Toefy
Date: 2023.07.07
12:35:40 +02'00'

**DIRECTOR: DEVELOPMENT MANAGEMENT
DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING
WESTERN CAPE GOVERNMENT**

DATE OF DECISION: 07 JULY 2023

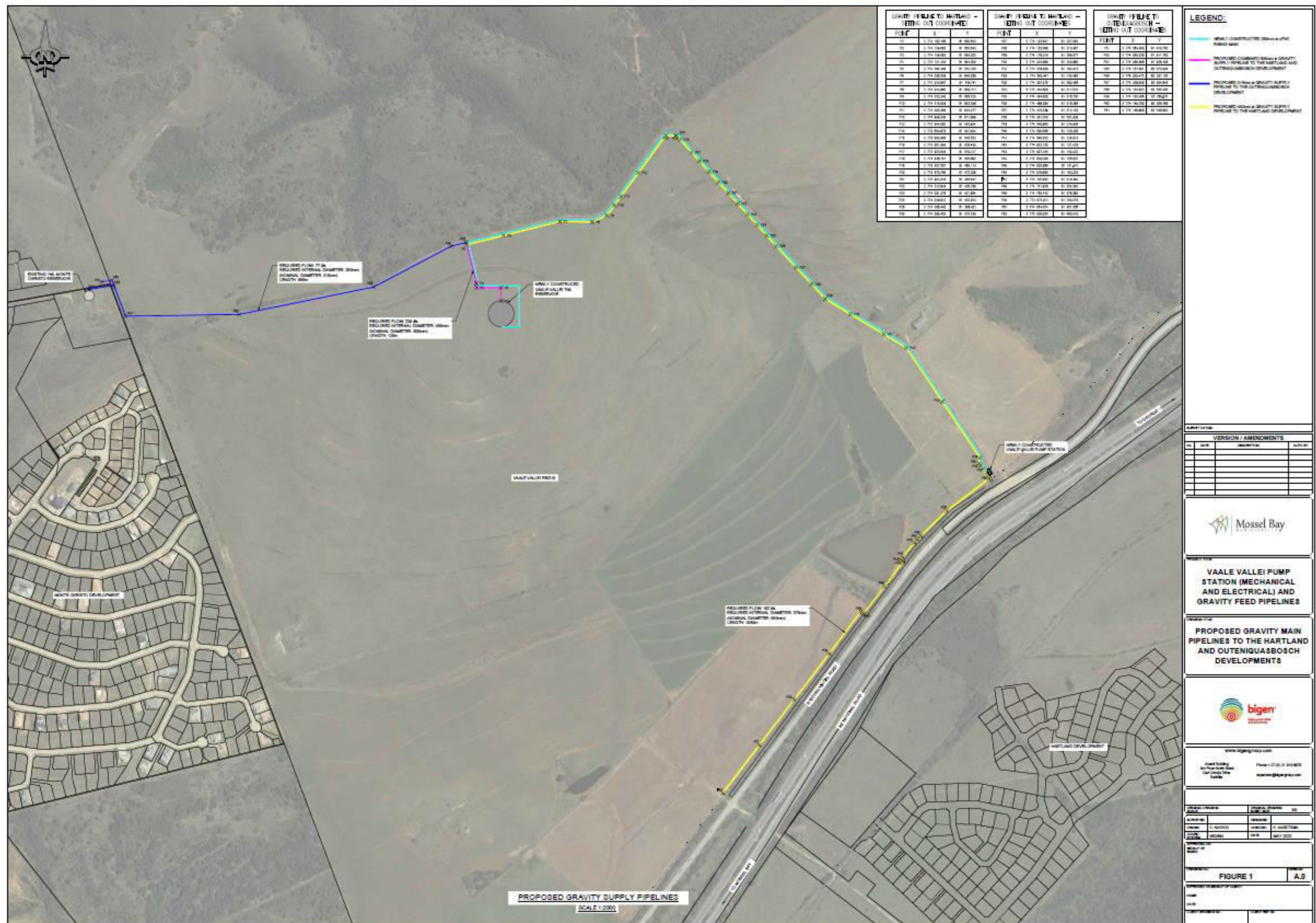
FOR OFFICIAL USE ONLY:

EIA REFERENCE NUMBER: EG12/2/4/1-D6/27-0014/12
NEAS REFERENCE NUMBER: WCP/EIA/0000841/2012
DATE OF ISSUE: 28 AUGUST 2013

EA ADDENDUM #1 REFERENCE NUMBER: 16/3/3/5/D6/29/0010/18
NEAS REF.: WCP/EIA/AMEND/0000307/2018
DATE OF ISSUE: 20 SEPTEMBER 2018

EA ADDENDUM #2 REFERENCE NUMBER: 16/3/3/5/D6/29/0005/23
NEAS REF.: WCP/EIA/AMEND/0000747/2023
DATE OF ISSUE: THIS DECISION

ANNEXURE 2: SITE DEVELOPMENT PLAN AND PIPELINE COORDINATES (2023)





**Western Cape
Government**

Environmental Affairs and
Development Planning

**DIRECTORATE: LAND MANAGEMENT
REGION 3**

REFERENCE: EG12/2/4/1/D6/27/0014/12
EXEMPTION REF. 16/3/1/4/D6/29/0028/12
ENQUIRIES: Marianne Lesch
DATE OF ISSUE: 2013-08-28 2013-08-28

The Municipal Manager
Mossel Bay Municipality
Private Bag X29
MOSSSEL BAY
6500

Attention: Mr Eric Louw

Tel: (044) 606 5264
Fax: (044) 606 5255

Dear Sir

APPLICATION FOR ENVIRONMENTAL AUTHORISATION AND EXEMPTION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2010: THE PROPOSED REGIONAL RESERVOIR FOR THE MOSSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSSEL BAY

With reference to your applications for the abovementioned, find below the outcome with respect to this application.

ENVIRONMENTAL AUTHORISATION AND EXEMPTION

DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2010, ("NEMA EIA Regulations") the competent authority herewith **grants Environmental Authorisation and Exemption** to the applicant to undertake the list of activities specified in Section B below with respect to the Alternative described in the Basic Assessment Report ("BAR") dated May 2013.

The applicant is herewith exempted from the following provisions of the NEMA EIA Regulations:

Regulation 10(2)(d) of Government Notice No. R.543, which reads as follows:

10(2) The applicant must, in writing, within 12 days of the date of the decision of the application

(d) publish a notice –

(i) informing interested and affected parties of the decision;

(ii) informing interested and affected parties where the decision can be accessed; and

(iii) drawing the attention of interested and affected parties to the fact that an appeal may be lodged against the decision in terms of Chapter 7 of these Regulations, if such appeal is available under the circumstances of the decision,

in the newspapers contemplated in Regulation 54(2)(c) and (d) and which newspaper was used for the placing of advertisements as part of the public participation process.

The granting of this Environmental Authorisation and Exemption (hereinafter referred to as the "Environmental Authorisation") is subject to compliance with the conditions set out in Section E below.

A. DETAILS OF THE APPLICANT FOR THIS ENVIRONMENTAL AUTHORISATION

The Municipal Manager
Mossel Bay Municipality
% Mr Eric Louw
Private Bag X29
MOSSSEL BAY
6500

Tel: (044) 606 5264
Fax: (044) 606 5255

The abovementioned company is the holder of this Environmental Authorisation and is also hereinafter referred to as "**the holder**" or "**the applicant**".

B. LIST OF ACTIVITIES AUTHORISED

Government Notice No. R544 of 18 June 2010–

Activity Number: 9
Activity Description:

The construction of facilities or infrastructure exceeding 1000 meters in length for the bulk transportation of water, sewage or storm water –

(i) With an internal diameter of 0,36 meter or

(ii) With a peak throughput of 120 liters per second or more,

Excluding where:

- a. Such facilities or infrastructure are bulk transportation of water, sewage or store water or storm water drainage inside a road reserve.

Government Notice No. R546 of 18 June 2010–

Activity Number: 2

Activity Description:

The construction of reservoirs for bulk water supply with a capacity of more than 250 cubic metres.

(a) In Western Cape:

iii. All areas outside urban areas;

The abovementioned list is hereinafter referred to as "**the listed activity**".

The applicant is herein authorised to undertake the following alternative related to the listed activity:

The proposal entails the construction of a 15 ML reservoir with the following infrastructure:

The technical components include:

- A 125 l/s @65 m head booster pump station next to District Road R102;
- A 1250 m x 400 mm UPVC / GRP rising main between the booster pump station and the 15 ML reservoir;
- A 15 ML reservoir;
- A 1675 m x 600 mm GRP gravity line for reservoir to termination point next to District Road R102. The length of the pipe next to road is approximately 600m;
- 750 m x 400 mm UPVC / GRP gravity line between the 15 ML reservoir and the existing 1 ML Monte Christo reservoir;
- A 6,0 m wide servitude for the pipes and maintenance road.

The site has an existing access route.

C. PROPERTY DESCRIPTION AND LOCATION

The listed activity will take place on Farm Vaale Valley 219, within the Mossel Bay municipal area.

Starting point of the activity:	34°	05'	58.16" South
	22°	07'	00.69" East
Middle point of the activity	34°	05'	23.38" South
	22°	07'	01.68" East
End point of the activity	34°	05'	30.29" South
	22°	06'	19.52 East

hereinafter referred to as "**the site**".

D. DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER

Hilland Environmental Consultants
% Ms J Christie
P O Box 590
GEORGE
6530

Tel: (044) 889 0229

Fax: (086) 542 5248

E. CONDITIONS OF AUTHORISATION

1. This Environmental Authorisation is valid for a period of **five years** from the date of issue. The holder must commence with all the listed activity within the said period or this Environmental Authorisation lapses and a new application for Environmental Authorisation must be submitted to the competent authority, unless the holder has lodged a valid application for the amendment of the validity period of this Environmental Authorisation, before the expiry of this Environmental Authorisation. In such instances, the validity period will be automatically extended ("the period of administrative extension") from the day before this environmental authorisation would otherwise have lapsed, until the amendment application for the extension of the validity period is decided. The listed activity, including site preparation, may not commence during the period of administrative extension.
2. The listed activity, including site preparation, may not commence within **20 (twenty) calendar days** of the date of issue of this Environmental Authorisation. In the event that an appeal notice and subsequent appeal is lodged with the competent authority, the effect of this Environmental Authorisation may be suspended until such time as the appeal is decided.
3. The applicant must in writing, within 12 (twelve) calendar days of the date of this decision and in accordance with Regulation 10(2)–
 - 3.1. notify all registered interested and affected parties of –
 - 3.1.1. the outcome of the application;
 - 3.1.2. the reasons for the decision as included in Annexure 1;
 - 3.1.3. the date of the decision; and
 - 3.1.4. the date of issue of the decision;
 - 3.2. draw the attention of all registered interested and affected parties to the fact that an appeal may be lodged against the decision in terms of Chapter 7 of the Environmental Impact Assessment Regulations, 2010 detailed in section F below;
 - 3.3. draw the attention of all registered interested and affected parties to the manner in which they may access the decision.
4. The holder of the Environmental Authorisation must give the competent authority written notice of commencement of the construction activities and provide proof

of compliance with the following specified conditions of authorisation. The holder must –

- 4.1. within **thirty (30) calendar days** of the date of issue of this decision give notice, with proof of compliance with conditions 2 and 3 above;
 - 4.2. give **seven (7) calendar** days notice before commencement of construction activities. This notice must include proof of compliance with the following conditions described herein, namely: Conditions **7** and **8**
5. This Environmental Authorisation is for the construction of a 15 ML reservoir on a portion of Farm Vaale Valley 219, Mossel Bay and will include the following:
- 5.1. The infrastructure technical components include:
 - A 125 l/s @65 m head booster pump station next to District Road R102;
 - A 1250 m x 400 mm UPVC / GRP rising main between the booster pump station and the 15 ML reservoir;
 - A 15 ML reservoir;
 - A 1675 m x 600 mm GRP gravity line for reservoir to termination point next to District Road R102. The length of the pipe next to road is approximately 600m;
 - 750 m x 400 mm UPVC / GRP gravity line between the 15 ML reservoir and the existing 1 ML Monte Christo reservoir;
 - A 6,0 m wide servitude for the pipes and maintenance road.
 - 5.2. The proposed reservoir and associated infrastructure will be constructed in accordance with the layout plan compiled by MVD Consulting Engineers (Pty) Ltd. South Cape (drawing number M1689/001, dated July 2005)
6. Any changes to, or deviations from the scope of the description set out in Condition 5 or Section B above must be accepted or approved, in writing, by the competent authority before such changes or deviations may be implemented. In assessing whether to grant such acceptance/approval or not, the competent authority may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder to apply for further authorisation in terms of the applicable legislation.
7. The draft Environmental Management Programme ("EMP") submitted as part of the application for Environmental Authorisation must be amended to address the following aspects and must then be re-submitted to the competent authority, and–
- 7.1. be approved by the Department before the commencement of any construction activities;
 - 7.2. be submitted to the Directorate for consideration at least three weeks prior to construction activities commencing;
 - 7.3. meet the requirements outlined in Section 24N (2) & (3) of the National Environmental Management Act, 1998 (Act no 107 of 1998, as amended) ("NEMA") and Regulation 33 of the Environmental Impact Assessment Regulations 2010;
 - 7.4. incorporate the conditions of authorisation given in this Environmental Authorisation;

- 7.5. incorporate reporting mechanisms for the construction and operational phase. It is required that an environmental audit also be performed during the operational phase;
- 7.6. ensure that appropriate local indigenous vegetation species are specified for the rehabilitation of disturbed areas where indigenous vegetation has occurred. Agriculture land should also be vegetated with indigenous vegetation species if such areas are not to be utilised for agriculture purposes;
- 7.7. be included in all contract documentation for the construction phase of the development;
- 7.8. describe the level and type of competency required of the Environmental Control Officer, ("ECO") or Environmental Site Agent where applicable;
- 7.9. define and allocate the roles and responsibilities of the ECO referred to above, and the Environmental Site Agent where applicable;
- 7.10. determine the frequency of site visits; and
- 7.11. address mitigation measures regarding the following aspects, but not be limited thereto, namely:
 - 7.11.1. access control to the site. Note: no members of the public or any unauthorised persons should gain access to the site during the construction phase of the development;
 - 7.11.2. all areas exposed or disturbed as a result of site preparation or construction activities, must be fully rehabilitated after construction has been completed;
 - 7.11.3. the rehabilitation of damage caused to roads due to construction activities and heavy transport vehicles, as well as the timeframe of such a rehabilitation programme;
 - 7.11.4. procedures to be followed when concrete works (if any) are performed on site.

An application for amendment to the EMP must be submitted to the competent authority if any further amendments are to be made to the EMP, other than those mentioned above, and this may only be implemented once the amended EMP has been authorised by the competent authority.

8. The holder must appoint a suitably experienced Environmental Control Officer ("ECO"), or site agent where appropriate, for the construction phase before commencement of any land clearing or construction activities to ensure compliance with the EMP and the conditions contained herein.
9. A copy of the Environmental Authorisation and the EMP must be kept at the site where the listed activity will be undertaken. Access to the site referred to in section C above must be granted and, the environmental authorisation and EMP must be produced to any authorised official representing the competent authority who requests to see it for the purposes of assessing and/or monitoring compliance with the conditions contained herein. The environmental authorisation and EMP must also be made available for inspection by any employee or agent of the applicant who works or undertakes work at the site.

10. The applicant must submit an application for amendment of the Environmental Authorisation to the competent authority where any detail with respect to the environmental authorisation must be amended, added, substituted, corrected, removed or updated. Further, the rights granted by this environmental authorisation are personal rights (i.e. not attached to a property, but granted to a natural or juristic person). As such, only the holder may undertake the activity authorised by the competent authority. Permission to transfer the rights and obligations contained herein must be applied for in the following manner:
 - 10.1. The applicant must submit an originally signed and dated application for amendment of the environmental authorisation to the competent authority stating that he/she wishes the rights and obligations contained herein to be transferred, and including (a) confirmation that the environmental authorisation is still in force (i.e. that the validity period has not yet expired or the activity was lawfully commenced with); (b) the contact details of the person who will be the new holder; (c) the reasons for the transfer; (d) an originally signed letter from the proposed new holder acknowledging the rights and obligations contained in the Environmental Authorisation and indicating that he has the ability to implement the mitigation and management measures and to comply with the stipulated conditions.
 - 10.2. The competent authority will issue an amendment to the new holder either by way of a new Environmental Authorisation or an addendum to the existing environmental authorisation if the transfer is found to be appropriate.
11. The holder is responsible for ensuring compliance with the conditions by any person acting on his behalf, including an agent, sub-contractor, employee or any person rendering a service to the holder.
12. Non-compliance with a condition of this Environmental Authorisation or EMP may result in suspension of this Environmental Authorisation and may render the holder liable for criminal prosecution.
13. The applicant must notify the competent authority in writing, within 24 hours thereof if any condition herein stipulated is not being complied with.
14. Notwithstanding this Environmental Authorisation, the holder must comply with any other statutory requirements that may be applicable to the undertaking of the listed activity.
15. An integrated waste management approach, which is based on waste minimisation and incorporates reduction, recycling, re-use and disposal, where appropriate, must be employed. Any solid waste must be disposed of at a landfill licensed in terms of the applicable legislation.
16. 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; stone artefacts and bone remains; structures and other built features; rock art and rock engravings; 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.

F. APPEALS

Appeals must comply with the provisions contained in Chapter 7 of the Environmental Impact Assessment Regulations, 2010.

1. An appellant must –

- 1.1. submit a notice of intention to appeal to the Minister, within 20 (twenty) calendar days of the date of the decision;
 - 1.2. submit the appeal within 30 (thirty) calendar days after the lapsing of the 20 (twenty) calendar days contemplated in regulation 60(1), for the submission of the notice of intention to appeal; and
 - 1.3. within 10 (ten) calendar days of having lodged the notice of intention to appeal, provide each person and organ of state registered as an interested and affected party in respect of the application, or the applicant, with –
 - 1.3.1. a copy of the notice of intention to appeal form; and
 - 1.3.2. a notice indicating where and for what period the appeal submission will be made available for inspection by such person, organ of state, or applicant, on the day of lodging it with the Minister, and that a responding statement may be made on the appeal within 30 (thirty) calendar days from the date the appeal submission was lodged with the Minister.
2. A person, organ of state or applicant who submits a responding or answering statement in terms of regulation 63 must within 10 (ten) calendar days of having submitted the responding or answering statement, serve a copy of the statement on the other party.
 3. If the person, organ of state or applicant fails to meet a timeframe with respect to the requirements as detailed above, the person, organ of state or applicant must immediately submit a written explanation to the Ministry providing a concise explanation for the non-compliance.
 4. All notice of intention to appeal and appeal forms must be submitted by means of one of the following methods:

By post: Western Cape Ministry of Local Government, Environmental
Affairs and Development Planning
Private Bag X9186
CAPE TOWN

8000

By facsimile: (021) 483 4174; or

By hand: Attention: Mr J. de Villiers
Room 809
8th Floor Utilitas Building,
1 Dorp Street,
CAPE TOWN
8001

By e-mail: Jaap.DeVilliers@westerncape.gov.za

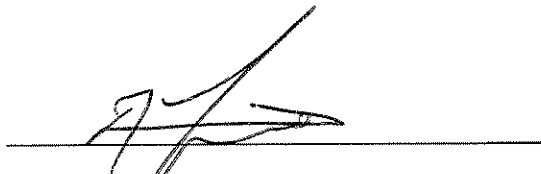
5. A prescribed notice of intention to appeal form and appeal form as well as assistance regarding the appeal processes is obtainable from the office of the Minister at: Tel. (021) 483 3721, E-mail Jaap.DeVilliers@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

G. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of this environmental authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is appreciated.

Yours faithfully



MR. KOBUS MUNO
DIRECTOR: LAND MANAGEMENT (REGION 3)

DATE OF DECISION: 28.8.2015

Cc: Ms Jessica Christie (HillLand Associates)
Mr Danie Wessels (MVD Consulting Civil and Structural Engineers (Pty) Ltd)

Fax: (086) 542 5248
Fax: (044) 691 3248

FOR OFFICIAL USE ONLY:

EIA REFERENCE NUMBER: EG12/2/4/1/D6/27/0014/12

NEAS EIA REFERENCE NUMBER: WCP/EIA/0000841/2012

EXEMPTION REFERENCE NUMBER: 16/3/1/4/D6/29/0028/12

NEAS EXEMPTION REFERENCE NUMBER: WCP/EIA/EX/0000189/2012

ANNEXURE 1: REASONS FOR THE DECISION

In reaching its decision, the competent authority, *inter alia*, considered the following:

- a) The information contained in the Application Form dated March 2012 and received by the competent authority on 16 March 2012, the BAR received by the competent authority on 28 June 2013, the EMP submitted together with the BAR;
- b) The objectives and requirements of relevant legislation, policies and guidelines, including Section 2 of the National Environmental Management Act, 1998 (Act No. 107 of 1998);
- c) The comments received from Interested and Affected Parties and the responses provided thereon, as included in the BAR dated May 2013;
- d) No site visits were conducted. The competent authority had sufficient information before it to make an informed decision without conducting a site visit.

All information presented to the competent authority was taken into account in the consideration of the application for Environmental Authorisation. A summary of the issues which, according to the competent authority, were the most significant reasons for the decision is set out below.

1. Exemption

Exemption from Regulation 10(2)(d) was granted due to the low number of comments received during the Public Participation Process. All registered Interested and Affected Parties ("I&AP's") were notified of the Exemption application, as required. No significant concerns were raised by I&AP's in this regard.

As such, the exemption application was regarded as appropriate by the competent authority in this instance based on the adequate public participation process and the limited number of comments submitted with respect to the application.

2. Public Participation

The Public Participation Process included:

- identification of and engagement with Interested And Affected Parties;
- fixing a notice board at the site where the listed activity is to be undertaken on 17 May 2012;
- giving written notice to the owners and occupiers of land adjacent to the site where the listed activity is to be undertaken, the municipality and ward councillor, and the various organs of state having jurisdiction in respect of any aspect of the listed activity;
- the Draft Basic Assessment Report was submitted to the Department of Water Affairs, Department of Health, the Department of Agriculture, Heritage Western Cape and Cape Nature;
- the placing of a newspaper advertisement in the 'Mossel Bay Advertiser';

- the Final BAR was made available to registered I&AP's for a further 21-day commenting period.

Written comment was specifically received from the following organs of state:

- Department of Health
- Heritage Western Cape; and
- CapeNature;

All the concerns raised by interested and affected parties, and organs of state, were responded to and/or adequately addressed during the public participation process. Specific management and mitigation measures have been considered in this environmental authorisation and in the EMP to adequately address the concerns raised.

3. Alternatives

Alternative 1 (Preferred alternative herewith authorised)

The preferred activity alternative entails the construction of a 15 ML reservoir with the following infrastructure:

The technical components include:

- A 125 l/s @65 m head booster pump station next to District Road R102;
- A 1250 m x 400 mm UPVC / GRP rising main between the booster pump station and the 15 ML reservoir;
- A 15 ML reservoir;
- A 1675 m x 600 mm GRP gravity line for reservoir to termination point next to District Road R102. The length of the pipe next to the road is approximately 600m;
- 750 m x 400 mm UPVC / GRP gravity line between the 15 ML reservoir and the existing 1 ML Monte Christo reservoir;
- A 6,0 m wide servitude for the pipes and maintenance road.

An existing access road exists, however a 2 spoor track with concrete laid in areas that are determined to be susceptible to erosion will be created for a section of the servitude to the reservoir at Monte Christo.

Alternative 2 (Layout Alternative)

The layout alternative entails the construction of a 10 ML reservoir with the following infrastructure:

The technical components include:

- A 125 l/s @65 m head booster pump station next to District Road R102;
- A 1250 m x 400 mm UPVC / GRP rising main between the booster pump station and the 10 ML reservoir;
- A 10 ML reservoir;
- A 1675 m x 600 mm GRP gravity line for reservoir to termination point next to District Road R102. The length of the pipe next to the road is approximately 600m;
- 750 m x 400 mm UPVC / GRP gravity line between the 10 ML reservoir and the existing 1 ML Monte Christo reservoir;
- A 6,0 m wide servitude for the pipes and maintenance road.

No-go alternative

The No-Go Option was also considered with no reservoir being constructed, however this will be a limiting factor with regards to possible future developments.

4. Impact Assessment and Mitigation measures**4.1. Activity Need and Desirability**

The Mossel Bay area has experienced drought and water shortages recently and an additional water storage unit will assist in avoiding such situations in future. The reservoir will also fulfil the need in supplying water to the surrounding areas which are currently undergoing development.

4.2. Biophysical/ Environment

The proposed site, Farm 219 lies adjacent to the R102, Hartenbos, Mossel Bay with Monte Christo Estate on the western border of the property. The site is approximately 700 meters from the nearest dam (on the property) and is on the northern slope of the "Koppie".

The proposed site borders a medium density residential estate and is also within 2 km from a medium density residential suburb (Hartenbos).

4.3. Visual / Sense of Place

The reservoir will be 'sunk' into the ground and placed on the northern side of the 'koppie' so that it won't be visible from the N2 or the R102 thereby mitigating any potential visual impact. The area around the reservoir will be rehabilitated with vegetation. The site and pipeline corridor will be rehabilitated and re-vegetated, this will also improve the possible landscape scarring as result of the construction phase.

4.4. Socio-economic

The activity may result in temporary employment opportunities for individuals from the local community and will ensure that these individuals have an income for a determined period of time. In the long term the project will allow for further development in the area and may lead to future employment opportunities.

The proposed activity will have a positive impact as the proposed activity will be able to supply water to currently undeveloped lands thus ensuring future housing and development projects are viable which in turn may lead to an improvement in the socio-economy of the area.

5. National Environmental Management Act Principles

The National Environmental Management Principles (set out in section 2 of the NEMA, which apply to the actions of all organs of state, serve as guidelines by reference to which any organ of state must exercise any function when taking any decision, and which must guide the interpretation, administration and implementation of any other law concerned with the protection or management of the environment), *inter alia*, provides for:

- the effects of decisions on all aspects of the environment to be taken into account;

- the consideration, assessment and evaluation of the social, economic and environmental impacts of activities (disadvantages and benefits), and for decisions to be appropriate in the light of such consideration and assessment;
- the co-ordination and harmonisation of policies, legislation and actions relating to the environment;
- the resolving of actual or potential conflicts of interest between organs of state through conflict resolution procedures; and
- the selection of the best practicable environmental option.

In view of the above, the NEMA principles, compliance with the conditions stipulated in this environmental authorisation, and compliance with the EMP, the competent authority is satisfied that the proposed listed activity will not conflict with the general objectives of integrated environmental management stipulated in Chapter 5 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and that any potentially detrimental environmental impacts resulting from the listed activity can be mitigated to acceptable levels.

----- **END** -----

Broadcast Report

P 1

28/08/2013 18:29

Serial No. AOPN041001480

TC: 122475

Destination	Start Time	Time	Prints	Result	Note
0446065255	08-28 17:32	00:01:27	000/013	NG	
0865425248	08-28 17:34	00:51:45	013/013	OK	
0446913248	08-28 18:26	00:02:29	013/013	OK	

Note TMR: Timer TX, POL: Polling, ORG: Original Size Setting, FME: Frame Erase TX,
 MIX: Mixed Original TX, CALL: Manual TX, CSRC: CSRC, FWD: Forward, PC: PC-Fax,
 BND: Double-Sided Binding Direction, SP: Special original, FCODE: F-code, RFX: Re-TX,
 BLV: Relay, MBX: Confidential, BUL: Bulletin, SIP: SIP Fax, IPADR: IP Address Fax,
 I-FAX: Internet Fax

Result OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,
 TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer,
 Refuse: Receipt Refused, Busy: Busy, M-Full: Memory Full,
 LOVR: Receiving length Over, POVER: Receiving page Over, FIL: File Error,
 DC: Decode Error, MDN: MDN Response Error, DSN: DSN Response Error.



DIRECTORATE: LAND MANAGEMENT
 REGION 3

REFERENCE: EG12/2/4/1/D6/27/0014/12
 EXEMPTION REF. 16/3/1/4/D6/29/0028/12
 ENQUIRIES: Marianne Lesch
 DATE OF ISSUE:

The Municipal Manager
 Mossel Bay Municipality
 Private Bag X29
 MOSSEL BAY
 6500

Attention: Mr Eric Louw

Tel: (044) 606 5264
 Fax: (044) 606 5255

Dear Sir

APPLICATION FOR ENVIRONMENTAL AUTHORISATION AND EXEMPTION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2010: THE PROPOSED REGIONAL RESERVOIR FOR THE MOSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSEL BAY

With reference to your applications for the abovementioned, find below the outcome with respect to this application.

ENVIRONMENTAL AUTHORISATION AND EXEMPTION

DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2010, ("NEMA EIA Regulations") the competent authority herewith **grants Environmental Authorisation and Exemption** to the applicant to undertake the list of activities specified in Section B below with respect to the Alternative described in the Basic Assessment Report ("BAR") dated May 2013.

The applicant is herewith exempted from the following provisions of the NEMA EIA Regulations:

Regulation 10(2)(d) of Government Notice No. R.543, which reads as follows:

4th Floor, York Park Building,
 93 York Street, George, 6529
 tel: +27 44 805 8600 fax: +27 44 874 2423

Private Bag X6509, George, 6530
 www.westerncape.gov.za/eodp

Broadcast Report

P 1

28/08/2013 18:29

Serial No. AOPNO41001480

TC: 122475

Destination	Start Time	Time	Prints	Result	Note
0446065255	08-28 17:32	00:01:27	000/013	NG	
0865425248	08-28 17:34	00:51:45	013/013	OK	
0446913248	08-28 18:26	00:02:29	013/013	OK	

Note

TMR: Timer TX, POL: Polling, ORG: Original Size Setting, FME: Frame Erase TX,
 MIX: Mixed Original TX, CALL: Manual TX, CSRC: CSRC, FWD: Forward, PC: PC-Fax,
 BND: Double-Sided Binding Direction, SP: Special original, FCODE: F-code, RTX: Re-TX,
 RLY: Relay, MBX: Confidential, BUL: Bulletin, SIP: SIP Fax, IPADR: IP Address Fax,
 I-FAX: Internet Fax

Result

OK: Communication OK, S-OK: Stop Communication, PW-OFF: Power Switch OFF,
 TEL: RX from TEL, NG: Other Error, Cont: Continue, No Ans: No Answer,
 Refuse: Receipt Refused, Busy: Busy, M-Full: Memory Full,
 LOVR:Receiving length Over, POVER:Receiving page Over, FIL:File Error,
 DC:Decode Error, MDN:MDN Response Error, DSN:DSN Response Error.



DIRECTORATE: LAND MANAGEMENT
 REGION 3

REFERENCE: EG12/2/4/1/D6/27/0014/12
 EXEMPTION REF. 16/3/1/4/D6/29/0028/12
 ENQUIRIES: Marianne Lesch
 DATE OF ISSUE:

The Municipal Manager
 Mossel Bay Municipality
 Private Bag X29
 MOSSEL BAY
 6500

Attention: Mr Eric Louw

Tel: (044) 606 5264
 Fax: (044) 606 5255

Dear Sir

APPLICATION FOR ENVIRONMENTAL AUTHORISATION AND EXEMPTION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND THE ENVIRONMENTAL IMPACT ASSESSMENT REGULATIONS, 2010: THE PROPOSED REGIONAL RESERVOIR FOR THE MOSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSEL BAY

With reference to your applications for the abovementioned, find below the outcome with respect to this application.

ENVIRONMENTAL AUTHORISATION AND EXEMPTION

DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) and the Environmental Impact Assessment Regulations, 2010, ("NEMA EIA Regulations") the competent authority herewith **grants Environmental Authorisation and Exemption** to the applicant to undertake the list of activities specified in Section B below with respect to the Alternative described in the Basic Assessment Report ("BAR") dated May 2013.

The applicant is herewith exempted from the following provisions of the NEMA EIA Regulations:

Regulation 10(2)(d) of Government Notice No. R.543, which reads as follows:

4th Floor, York Park Building,
 93 York Street, George, 6529
 tel: +27 44 805 8600 fax: +27 44 874 2423

Private Bag X6509, George, 6530
www.westerncape.gov.za/eadp



**Western Cape
Government**
Environmental Affairs and
Development Planning

BETTER TOGETHER

Development Management
(Region 3)

REFERENCE: 16/3/3/5/D6/29/0010/18
ENQUIRIES: Marianne Lesch
DATE OF ISSUE: 2018 -09- 20

The Municipal Manager
Mossel Bay Municipality
Private Bag X29
MOSSSEL BAY
6500

Attention: Mr Eric Louw

Tel: (044) 606 5270
E-mail: elouw@mosselbay.gov.za

Dear Sir

APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 28 AUGUST 2013 FOR THE PROPOSED REGIONAL RESERVOIR FOR MOSSSEL BAY AREA ON THE FARM VAALE VALLEY 219, MOSSSEL BAY

With reference to your application for the amendment of the environmental authorisation issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12, find below the amendment to the Environmental Authorisation in respect of this application.

ADDENDUM TO ENVIRONMENTAL AUTHORISATION

A. DECISION

1. By virtue of the powers conferred on it in terms of Regulation 30 of the Environmental Impact Assessment Regulations, 2014, the Department has decided to amend the Environmental Authorization issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12, as follows –

1.1 Condition 1 of the environmental authorisation issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12, must read as follows:

"This environmental authorisation is valid until 28 August 2023. The holder must undertake at least one of the authorised activities on or before 28 August 2023 or this environmental authorisation lapses and a new application for environmental authorisation must be submitted to the competent authority"

*The development's construction phase must be concluded within ten years **(10) years** from the date on which the first listed activity is commenced."*

2. All other information contained in the Environmental Authorisation issued on 28 August 2013, Reference Number: EG12/2/4/1-D6/27-0014/12 remains unchanged and is still in force.

B. REASONS FOR THE DECISION:

In reaching its decision, the Department took, *inter alia*, the following into consideration:

1. The application is for a non-substantive amendment to the Environmental Authorisation.
2. The environment and the rights and interests of other parties are not likely to be adversely affected by this decision to amend the Environmental Authorisation.
3. The application for amendment is only for the extension of the validity period and the fact that the approved development will not change in any other way, it is understood that the level and nature of the impacts will remain unchanged.
4. The motivation submitted by the applicant, which explained the reasons for the delay in implementing the EIA listed activities that were authorised by this Department on 28 August 2013.
5. All the relevant information presented to this Department, which formed part of the application for amendment.

C. CONDITIONS

1. The applicant must, in writing, within **14 (fourteen)** calendar days from the date of the Department's decision –
 - 1.1 notify all registered interested and affected parties registered in the previous EIA process of –
 - 1.1.1 the outcome of the application;
 - 1.1.2 the reasons for the decision;
 - 1.1.3 the date of the decision; and
 - 1.1.4 the date of issue of the decision;
 - 1.2 draw the attention of all registered interested and affected parties registered in the previous EIA process to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, 2014 in section D below;
 - 1.3 draw the attention of all registered interested and affected parties registered in the previous EIA process to the manner in which they may access the decision.
2. The holder of the environmental authorisation must within thirty (30) calendar days of the issue of this amendment decision, provide the competent authority with written proof of compliance with **Condition 1** above.

D. APPEALS

Appeals must comply with the provisions contained in the National Appeal Regulations 2014 (refer to Government Notice R.993 of 8 December 2014).

1. An appellant must –
 - 1.1. submit an appeal in accordance with Regulation 4 to the appeal administrator, within 20 (twenty) calendar days from the date the applicant notified registered I&APs of this decision.
 - 1.2. if the appellant is the applicant, provide any registered I&AP, any Organ of State and the decision-maker with a copy of the appeal lodged with the appeal administrator;

- 1.3. if the appellant is a person other than the applicant, provide any registered I&AP, any Organ of State and the decision-maker with a copy of the appeal lodged with the appeal administrator;
2. The applicant (if not the appellant), the decision-maker, I&APs and Organ of State must submit their responding statement, if any, to the appeal authority and the appellant within 20 days from the date of receipt of the appeal submission.
3. The appeal form/s must be submitted by means of one of the following methods:

By post: Attention: Jaap de Villiers
 Western Cape Ministry of Local Government, Environmental Affairs and
 Development Planning
 Private Bag X9186
 CAPE TOWN
 8000

By facsimile: (021) 483 4174; or

By hand: Attention: Mr J. de Villiers (Tel: 021 483 3721)
 Room 809
 8th Floor Utilitas Building, 1 Dorp Street, Cape Town, 8001

By e-mail: Jaap.DeVilliers@westerncape.gov.za

4. A prescribed appeal form, as well as assistance regarding the appeal processes is obtainable from the office of the appeal authority/ at: Tel. (021) 483 3721, E-mail Jaap.deVilliers@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

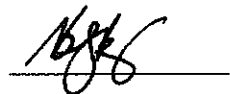
E. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of this Addendum to Environmental Authorisation shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the

conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is appreciated.

Yours faithfully



MR. GAVIN BENJAMIN
DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 3)

DATE OF DECISION: 20/09/2018

CC: (1) Ms Cathy Avierinos (EAP)

Fax: 086 542 5248

ANNEXURE H

BOCMA comments – 5 July 2023



101 York Street 3rd Floor Room 302 George 6530 PO Box 1205 George 6530

Enquiries: Rudzani Makahane

Tel: 023 346 8000

E-mail: rmakahane@bocma.co.za

Reference: 4/10/1/K10B/Vaale Valley, Mossel Bay

Date: 05 July 2023

HillLand Environmental (Pty) Ltd
Attention: Ms Cathy Avierinos

COMMENTS ON THE ENQUIRY RELATING TO THE POTABLE WATER PIPELINE ROUTE WITHIN THE EXISTING SERVITUDE

Your email submission dated 18 June 2023 has reference.

The Breedde-Olifants Catchment Management Agency (BOCMA) has evaluated the submitted information and has the following comments:

1. The provided information and our telephone discussion of 05 July indicated that the proposed project will not have negative impacts to the watercourse. In addition, considering the existing servitude and that the activity will be completed within a short space of time, this office does not have objection to the proposed pipeline installation.
2. Without the envisage negative impacts on the watercourse, the water use authorisation will therefore not be required.

The BOCMA reserves the right to revise initial comments and request further information based on any additional information received.

Yours faithfully

A handwritten signature in black ink, appearing to be "Jan van Staden", written over a horizontal line.

p.p.

Mr Jan van Staden

Chief Executive Officer (Acting)