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NEAS REFERENCE: WCP/EIA/AMEND/0000728/2023
DATE OF ISSUE: 31 May 2023

The Municipal Manager
Stellenbosch Municipality
PO Box 17
STELLENBOSCH
7600

Attention: Mr Paul Joubert

Cell: 072 995 9258

Email: paul.joubert@stellenbosch.gov.za

Dear Sir

APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND PART 1 OF THE ENVIRONMENTAL IMPACT ASSESSMENT (“EIA”) REGULATIONS, 2014 (AS AMENDED) FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 14 SEPTEMBER 2021 (DEA&DP: 16/3/3/1/B4/22/1070/20) FOR THE KAYAMANDI NORTHERN EXTENSION WATER SUPPLY PUMP STATIONS, PIPELINES AND 10 ML RESERVOIR, STELLENBOSCH

1. With reference to the above application, the Department hereby notifies you of its decision to **grant** the amendment of the Environmental Authorisation issued on 14 September 2021 (DEA&DP Ref: 16/3/3/1/B4/22/1070/20) attached herewith, together with the reasons for the decision in terms of Part 1 of the Environmental Impact Assessment Regulations, 2014 (as amended).
2. Your attention is drawn to Chapter 2 of the Appeal Regulations, 2014, which prescribes the appeal procedure to be followed. This procedure is summarized in the attached Environmental Authorisation.

Yours faithfully

ZAAHIR TOEFY

DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)

DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING

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AMENDMENT ENVIRONMENTAL AUTHORISATION

APPLICATION IN TERMS OF THE NATIONAL ENVIRONMENTAL MANAGEMENT ACT, 1998 (ACT 107 OF 1998) AND PART 1 OF THE ENVIRONMENTAL IMPACT ASSESSMENT ("EIA") REGULATIONS, 2014 (AS AMENDED) FOR THE AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION ISSUED ON 14 SEPTEMBER 2021 (DEA&DP: 16/3/3/1/B4/22/1070/20) FOR THE KAYAMANDI NORTHERN EXTENSION WATER SUPPLY PUMP STATIONS, PIPELINES AND 10 ML RESERVOIR, STELLENBOSCH

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

A. DECISION

By virtue of the powers conferred on it by the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA") and the Environmental Impact Assessment ("EIA") Regulations, 2014 (as amended), the Department herewith **grants** the amendment of the Environmental Authorisation issued on 14 September 2021 (DEA&DP Ref.: 16/3/3/1/B4/22/1070/20) in terms of Part 1 of the EIA Regulations, 2014 (as amended).

The Environmental Authorisation is amended as set out below:

1. B. LIST OF ACTIVITIES AUTHORISED

"The proposed Kayamandi Bulk Water Supply project entails the construction of the following components with a combined approximate footprint of 2.5ha:

1) A 75 to 154 litre per second (ℓ/s) pump station and associated infrastructure

- It will be located at the existing Papegaaiberg Reservoir and pump station site in the Papegaaiberg Nature Reserve.
- The pump station footprint, including generators, diesel storage and associated infrastructure will have a footprint of approximately 3000m².
- Associated with the pump station will be a satellite construction camp of approximately 400m².

2) A rising main pipeline

- The pipeline will take water from the proposed new pump station at the existing Papegaaiberg Reservoir to the proposed new Kayamandi Northern Reservoir.
- It will be approximately 3 200m in length, with an internal diameter of 450mm.
- Associated infrastructure includes scour chambers (5-7 small chambers, each with an approximate 10m² footprint).
- The infrastructure will have an approximate footprint of 3 200m² and the construction footprint (trench) will range between 6-6.5m wide (20 800m²).

- To accommodate the above, a 50m wide pipeline corridor has been assessed along the length of the pipeline route, within which a 15-20m construction corridor is required (64 000m²), with the following exceptions:
 - The *wetland crossing* – within the wetland buffer area (15m on either side of the delineated wetland) no application corridor applies. A maximum construction corridor of 6.5m will be catered for.
 - *Azania/Watergang informal settlement* – the pipeline passes between the newly established Watergang / Azania Township and the Kayamandi Township, where space is limited to a jeep track and walking path through this area. The pipeline will be placed in the available space (an approximate 6.5m width).
 - *Enkanini informal settlement (east of existing Kayamandi Reservoir)* – the pipeline route continues southwards and follows the gravel road past the eastern side of the existing Kayamandi Reservoir. In this section, a small informal settlement has established on both sides of this road and available space is less than 6m wide, constricted to 3-4m wide in places due to dwellings or structures encroaching on the road. A minimum construction corridor of 6.5m wide is however required and therefore the identified structures must be relocated to make way for the proposed pipeline. Once completed, a 6-6.5m wide pipeline servitude will be kept clear of development.

3) A 560 m pipeline

- The pipeline will be routed from the proposed Kayamandi Northern Reservoir back along the rising main pipeline to Azania / Watergang (i.e. in parallel to the northern section, thus the total length of the pipeline footprint is still 3200m).
- The pipeline will have a maximum internal diameter of approximately 450mm.
- Its footprint is included in that of the rising main pipeline.

4) The Kayamandi Northern Reservoir

- The reservoir will have a 10 mega litre (Mℓ) capacity and together with its associated infrastructure, such as valve chambers and flow meters, will cover an area of approximately 1600m².
- It will be fed from the existing Papegaaiberg Reservoir via the proposed new rising main pipeline.
- Provision will be made for a construction camp with a laydown area with a maximum footprint of 4000m².
- The proposed reservoir and construction campsite will be located within the surveyed area for the proposed reservoir site."

is amended to read:

The proposed Kayamandi Bulk Water Supply project entails the construction of the following components with a combined approximate footprint of 2.5ha:

1) A 75 to 154 litre per second (ℓ/s) pump station and associated infrastructure

- It will be located at the existing Papegaaiberg Reservoir and pump station site in the Papegaaiberg Nature Reserve.
- The pump station footprint, including generators, diesel storage and associated infrastructure will have a footprint of approximately 3000m².
- Associated with the pump station will be a satellite construction camp of approximately 400m².

2) A rising main pipeline

- The pipeline will take water from the proposed new pump station at the existing Papegaaiberg Reservoir to the proposed new Kayamandi Northern Reservoir.
- It will be approximately 3 200m in length, with an internal diameter of 450mm.
- Associated infrastructure includes scour chambers (5-7 small chambers, each with an approximate 10m² footprint).
- The infrastructure will have an approximate footprint of 3 200m² and the construction footprint (trench) will range between 6-6.5m wide (20 800m²).
- To accommodate the above, a 50m wide pipeline corridor has been assessed along the length of the pipeline route, within which a 15-20m construction corridor is required (64 000m²), with the following exceptions:
 - The *wetland crossing* – within the wetland buffer area (15m on either side of the delineated wetland) no application corridor applies. A maximum construction corridor of 6.5m will be catered for.
 - *Azania/Watergang informal settlement* – the pipeline passes between the newly established Watergang / Azania Township and the Kayamandi Township, where space is limited to a jeep track and walking path through this area. The pipeline will be placed in the available space (an approximate 6.5m width).
 - *Enkanini informal settlement (east of existing Kayamandi Reservoir)* – the pipeline route continues southwards and follows the gravel road past the eastern side of the existing Kayamandi Reservoir. In this section, a small informal settlement has established on both sides of this road and available space is less than 6m wide, constricted to 3-4m wide in places due to dwellings or structures encroaching on the road. The depth of the pipeline through this section will vary between 1.2 m and 1.4 m below ground level, requiring a corridor width of 3.0 m. Once completed, a 3.0 m wide pipeline servitude will be kept clear of development.

3) A 560 m pipeline

- The pipeline will be routed from the proposed Kayamandi Northern Reservoir back along the rising main pipeline to Azania / Watergang (i.e. in parallel to the northern section, thus the total length of the pipeline footprint is still 3200m).
- The pipeline will have a maximum internal diameter of approximately 450mm.
- Its footprint is included in that of the rising main pipeline.

4) The Kayamandi Northern Reservoir

- The reservoir will have a 10 mega litre (Mℓ) capacity and together with its associated infrastructure, such as valve chambers and flow meters, will cover an area of approximately 1 600m².
- It will be fed from the existing Papegaaiberg Reservoir via the proposed new rising main pipeline.
- Provision will be made for a construction camp with a laydown area with a maximum footprint of 4000m².
- The proposed reservoir and construction campsite will be located within the surveyed area for the proposed reservoir site.

2. Section E. CONDITIONS OF AUTHORISATION

- Condition 19
"A copy of the Relocation Action Plan and Livelihoods Restoration Plan and written confirmation that this has been successfully implemented and completed must be submitted to this Department prior to the commencement of construction activities within the Enkanini Informal Settlement Area."

is amended to read:

- Condition 19
The "METHOD STATEMENT FOR WORKING WITHIN THE ENKANINI INFORMAL SETTLEMENT" dated 28 March 2023 must be implemented during the construction of the section of the pipeline through the informal settlement.

3. Alternatives

"Preferred Design Alternative (Herewith Authorised)"

The proposed Kayamandi Bulk Water Supply project entails the construction of the following components with a combined approximate footprint of 2.5ha:

1) A 75 to 154 litre per second (ℓ/s) pump station and associated infrastructure

- It will be located at the existing Papegaaiberg Reservoir and pump station site in the Papegaaiberg Nature Reserve.
- The pump station footprint, including generators, diesel storage and associated infrastructure will have a footprint of approximately 3000m².
- Associated with the pump station will be a satellite construction camp of approximately 400m².

2) A rising main pipeline

- The pipeline will take water from the proposed new pump station at the existing Papegaaiberg Reservoir to the proposed new Kayamandi Northern Reservoir.
- It will be approximately 3 200m in length, with an internal diameter of 450mm.
- Associated infrastructure includes scour chambers (5-7 small chambers, each with an approximate 10m² footprint).
- The infrastructure will have an approximate footprint of 3 200m² and the construction footprint (trench) will range between 6-6.5m wide (20 800m²).
- To accommodate the above, a 50m wide pipeline corridor has been assessed along the length of the pipeline route, within which a 15-20m construction corridor is required (64 000m²), with the following exceptions:
 - The *wetland crossing* – within the wetland buffer area (15m on either side of the delineated wetland) no application corridor applies. A maximum construction corridor of 6.5m will be catered for.
 - *Azania/Watergang informal settlement* – the pipeline passes between the newly established Watergang / Azania Township and the Kayamandi Township, where space is limited to a jeep track and walking path through this area. The pipeline will be placed in the available space (an approximate 6.5m width).
 - *Enkanini informal settlement (east of existing Kayamandi Reservoir)* – the pipeline route continues southwards and follows the gravel road past the eastern side of the existing Kayamandi Reservoir. In this section, a small informal settlement has established on both sides of this road and available space is less than 6m wide, constricted to 3-4m wide in

places due to dwellings or structures encroaching on the road. A minimum construction corridor of 6.5m wide is however required and therefore the identified structures must be relocated to make way for the proposed pipeline. Once completed, a 6-6.5m wide pipeline servitude will be kept clear of development.

2) A 560 m pipeline

- The pipeline will be routed from the proposed Kayamandi Northern Reservoir back along the rising main pipeline to Azania / Watergang (i.e. in parallel to the northern section, thus the total length of the pipeline footprint is still 3200m).
- The pipeline will have a maximum internal diameter of approximately 450mm.
- Its footprint is included in that of the rising main pipeline.

3) The Kayamandi Northern Reservoir

- The reservoir will have a 10 mega litre (Ml) capacity and together with its associated infrastructure, such as valve chambers and flow meters, will cover an area of approximately 1600m².
- It will be fed from the existing Papegaaiberg Reservoir via the proposed new rising main pipeline.
- Provision will be made for a construction camp with a laydown area with a maximum footprint of 4000m².
- The proposed reservoir and construction campsite will be located within the surveyed area for the proposed reservoir site."

is amended to read:

Preferred Design Alternative (Herewith Authorised)

The proposed Kayamandi Bulk Water Supply project entails the construction of the following components with a combined approximate footprint of 2.5ha:

1) A 75 to 154 litre per second (ℓ/s) pump station and associated infrastructure

- It will be located at the existing Papegaaiberg Reservoir and pump station site in the Papegaaiberg Nature Reserve.
- The pump station footprint, including generators, diesel storage and associated infrastructure will have a footprint of approximately 3000m².
- Associated with the pump station will be a satellite construction camp of approximately 400m².

2) A rising main pipeline

- The pipeline will take water from the proposed new pump station at the existing Papegaaiberg Reservoir to the proposed new Kayamandi Northern Reservoir.
- It will be approximately 3 200m in length, with an internal diameter of 450mm.
- Associated infrastructure includes scour chambers (5-7 small chambers, each with an approximate 10m² footprint).
- The infrastructure will have an approximate footprint of 3 200m² and the construction footprint (trench) will range between 6-6.5m wide (20 800m²).
- To accommodate the above, a 50m wide pipeline corridor has been assessed along the length of the pipeline route, within which a 15-20m construction corridor is required (64 000m²), with the following exceptions:
 - The *wetland crossing* – within the wetland buffer area (15m on either side of the delineated wetland) no application corridor applies. A maximum construction corridor of 6.5m will be catered for.

- *Azania/Watergang informal settlement* – the pipeline passes between the newly established Watergang / Azania Township and the Kayamandi Township, where space is limited to a jeep track and walking path through this area. The pipeline will be placed in the available space (an approximate 6.5m width).
- *Enkanini informal settlement (east of existing Kayamandi Reservoir)* – the pipeline route continues southwards and follows the gravel road past the eastern side of the existing Kayamandi Reservoir. In this section, a small informal settlement has established on both sides of this road and available space is less than 6m wide, constricted to 3-4m wide in places due to dwellings or structures encroaching on the road. The depth of the pipeline through this section will vary between 1.2 m and 1.4 m below ground level, requiring a corridor width of 3.0 m. Once completed, a 3.0 m wide pipeline servitude will be kept clear of development.

3) A 560 m pipeline

- The pipeline will be routed from the proposed Kayamandi Northern Reservoir back along the rising main pipeline to Azania / Watergang (i.e. in parallel to the northern section, thus the total length of the pipeline footprint is still 3200m).
- The pipeline will have a maximum internal diameter of approximately 450mm.
- Its footprint is included in that of the rising main pipeline.

4) The Kayamandi Northern Reservoir

- The reservoir will have a 10 mega litre (Mℓ) capacity and together with its associated infrastructure, such as valve chambers and flow meters, will cover an area of approximately 1600m².
- It will be fed from the existing Papegaaiberg Reservoir via the proposed new rising main pipeline.
- Provision will be made for a construction camp with a laydown area with a maximum footprint of 4000m².
- The proposed reservoir and construction campsite will be located within the surveyed area for the proposed reservoir site.

B. REASONS FOR THE DECISION

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

1. The amendment applied for is in terms of Part 1 of the EIA Regulations, 2014 and will not change the scope of the Environmental Authorisation issued on 14 September 2021.
2. In the original application, it was stipulated that a minimum construction corridor of 6.5 m would be required, necessitating the relocation of certain structures to make way for the proposed pipeline. The Project Engineers have revised the pipeline depth in the Enkanini section, from a depth which varies between 2.5 m and 2.8m to a revised depth varying between 1.2 m and 1.4 m. The result of this, is a reduction in the required construction corridor width, from 6.5 m to 3.0 m. As such, the available space in the Enkanini section will be sufficient, with no need to relocate / remove dwellings or structures. Consequently, the compilation and successful implementation of a Relocation Action Plan and Livelihoods Restoration Plan in the Enkanini Informal Settlement Area, prior to the commencement of construction activities, as stipulated in Condition 19 of the original Environmental Authorisation is no longer required. A method statement to address the anticipated impacts during the construction of this section of the pipeline has been compiled and will be implemented.

3. The amendment will not result in an increased level or nature of the impacts that were considered and assessed during the initial application for environmental authorisation.
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 Environmental Authorisation.

C. CONDITIONS

1. All other conditions contained in the Environmental Authorisation issued on 14 September 2021 (Attached as Annexure A), remain unchanged and in force as it relates to the newly amended development.

D. APPEALS

Appeals must comply with the provisions contained in the National Appeal Regulations 2014 (as amended).

1. An appellant (if the holder of the decision) must, within 20 (twenty) calendar days from the date on which 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, any Organ of State with interest in the matter and the decision-maker i.e. the Competent Authority that issued the decision.
2. An appellant (if NOT the holder of the decision) must, within 20 (twenty) calendar days from the date on which 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, any registered I&AP, any Organs of State with interest in the matter and the decision-maker i.e. the Competent Authority that issued the decision.
3. The holder of the decision (if not the appellant), the decision-maker that issued the decision, the registered I&AP and the Organs 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 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: Attention: Mr Marius Venter (Tel: 021 483 2659)
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 Appeal Authority at: Tel. (021) 483 2659, 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 EA 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

**DIRECTOR: DEVELOPMENT MANAGEMENT (REGION 1)
DEPARTMENT OF ENVIRONMENTAL AFFAIRS AND DEVELOPMENT PLANNING**

DATE OF DECISION: 31 MAY 2023

Cc: (1) Sarah Caulfield (AECOM SA (Pty) Ltd)
(2) Schalk van der Merwe (Stellenbosch Municipality)
(3) Johru Robyn (Stellenbosch Municipality)
(4) Alana Duffell-Canham (CapeNature)

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Annexure A