



## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

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### LICENCE IN TERMS OF CHAPTER 4 OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998) (THE ACT)

I, **Mrs NM Bila-Mupariwa** in my capacity as Provincial Head Berg-Olifants - Belville in the Department of Water and Sanitation and acting under the powers delegated to me by the Minister of Water and Sanitation, hereby authorises the following water use in respect of this licence.

Serial Number : 5023515980906502107

**Provincial Head**

Date: Nov 24 2022 5:08PM

**LICENCE NO: 01/G21B/IJ/12429**  
**FILE NO: 27/2/2/G221/17/5**

**Licensee: City of Cape Town**

**Postal Address:** Private Bag X9181  
**Cape Town**  
8000

**Physical Address:** Civic Centre  
12 Hertzog Boulevard  
**Cape Town**  
8001

Provincial Head

## 1. Water Uses authorised by this licence

**Table 1: Summary of water uses authorised**

|   |                           |                                                                                                                                 |
|---|---------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| 1 | Section 21(f) of the Act  | Discharging waste or water containing waste into a water resource, subject to the conditions set out in Appendices I and II.    |
| 2 | Section 21(i) of the Act: | Altering the bed, banks, course or characteristics of a watercourse; subject to the conditions set out in Appendices I and III. |
| 3 | Section 21(j) of the Act  | Removing, discharging or disposing of water found underground, subject to the conditions set out in Appendices I and IV.        |

## 2. Property(ies) in respect of which the water use licence is issued

**Table 2: Property details where the water use(s) will take place**

| Activity                       | Farm Name                  | Farm Portion | Owner's Name                               | Title Deed Number |
|--------------------------------|----------------------------|--------------|--------------------------------------------|-------------------|
| <b>Section 21(f) Water Use</b> |                            |              |                                            |                   |
| Dewatering around Basin 6      | Brakke Fontein 32, Cape RD | 7            | Regional Services Council – Cape Metropole | T4961/1995        |
| <b>Section 21(i) Water Use</b> |                            |              |                                            |                   |
| Discharging of                 | Driefontein 29,            | 76           | Industria 23                               | T100144/2007      |

| Activity                             | Farm Name                  | Farm Portion | Owner's Name                               | Title Deed Number |
|--------------------------------------|----------------------------|--------------|--------------------------------------------|-------------------|
| raw groundwater into Donkergat River | Cape RD                    |              | Eiendoms Trust                             |                   |
| <b>Section 21(j) Water Use</b>       |                            |              |                                            |                   |
| Dewatering around Basin 6            | Brakke Fontein 32, Cape RD | 7            | Regional Services Council – Cape Metropole | T4961/1995        |

### 3. Licence and Review Period

- 3.1 This licence is valid for a period of twenty-four (24) months from the date of issuance.
- 3.2 On review of the licence, a Responsible Authority may amend any condition of the licence, other than the period of validity thereof.

### 4. Definitions

Any terms, words and expressions as defined in the National Water Act, 1998 (Act 36 of 1998) shall bear the same meaning when used in this licence."

#### 4.1 The following definitions are of relevance, but not exclusive, to this licence

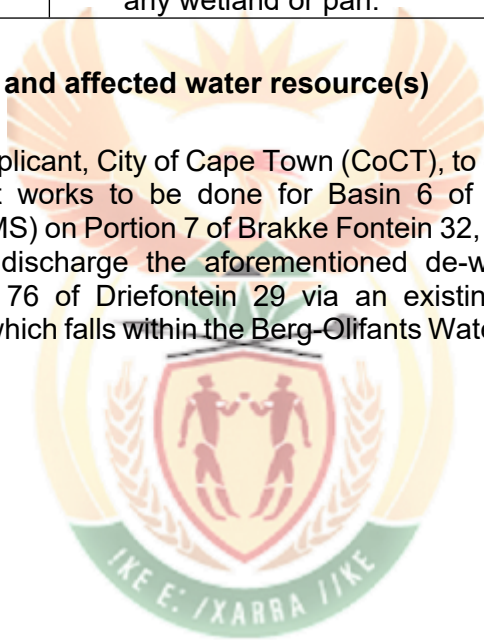
|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Act                                           | National Water Act, 1998 (Act 36 of 1998)                                                                                                                                                                                                                                                                                                                                                                                                |
| Buffer zone                                   | Buffer zone: a strip of land surrounding a wetland or riparian area in which activities are controlled or restricted, in order to reduce the impact of adjacent land uses on the wetland or riparian area. The buffer zone is measured from the edge of the delineated watercourse determined according to the Departmental guideline - "A practical field procedure for identification and delineation of wetlands and riparian areas." |
| Department                                    | The Department of Water and Sanitation                                                                                                                                                                                                                                                                                                                                                                                                   |
| CMA                                           | Catchment Management Agency                                                                                                                                                                                                                                                                                                                                                                                                              |
| CEO                                           | The Chief Executive Officer of the Berg-Olifants Catchment Management Agency (once established).                                                                                                                                                                                                                                                                                                                                         |
| Stream flow reduction activity section 36 (1) | The following are stream flow reduction activities:<br>(a) the use of land for afforestation which has been or is being                                                                                                                                                                                                                                                                                                                  |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | established for commercial purposes; and<br>(b) an activity which has been declared as such under section 32(2) of the Act.                                                                                                                                                                                                                                                                                                                                 |
| Provincial Head           | Head of Provincial Operations: Western Cape.                                                                                                                                                                                                                                                                                                                                                                                                                |
| Responsible Authority     | “Responsible authority” in relation to a specific power or duty in respect of water uses, means<br>(a) if that power or duty has been assigned by the Minister to a catchment management agency, that catchment management agency; or<br>(b) if that power or duty has not been so assigned, the Minister                                                                                                                                                   |
| Delegated Authority       | The person that has been delegated certain functions of the Act                                                                                                                                                                                                                                                                                                                                                                                             |
| Riparian habitat          | “Riparian habitat” includes the physical structure and associated vegetation of the areas associated with a watercourse which are commonly characterised by alluvial soils, and which are inundated or flooded to an extent and with a frequency sufficient to support vegetation of species with a composition and physical structure distinct from those of adjacent land areas.                                                                          |
| Watercourse               | “Watercourse” means<br>(a) a river or spring;<br>(b) a natural channel in which water flows regularly or intermittently;<br>(c) a wetland, lake or dam into which, or from which, water flows; and<br>(d) any collection of water which the Minister may, by notice in the Gazette, declare to be a watercourse, and a reference to a watercourse includes, where relevant, its bed and banks.                                                              |
| Pollution                 | “Pollution” means the direct or indirect alteration of the physical, chemical or biological properties of a water resource so as to make it -<br>(a) less fit for any beneficial purpose for which it may reasonably be expected to be used; or<br>(b) harmful or potentially harmful -<br>(aa) to the welfare, health or safety of human beings;<br>(bb) to any aquatic or non-aquatic organisms;<br>(cc) to the resource quality; or<br>(dd) to property. |
| Days                      | Calendar days                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Commencement date         | The date on which water use starts                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Minister                  | means the Minister of the Department of Water and Sanitation.                                                                                                                                                                                                                                                                                                                                                                                               |
| Sensitive riffle habitats | is a Pool riffle rapid sequences that occur where a mixture of flows and depth provide a variety of habitats to support fish and invertebrate life. Pools are deep with slow water. Riffles are shallow with fast, turbulent water running over rocks. Runs are deep with fast water and little or no turbulence.                                                                                                                                           |
| Extent of the watercourse | (a) the outer edge of the 1:100 year floodline or the                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | <p>delineated riparian habitat, whichever is the greatest, measured from the middle of the watercourse of a river, spring, natural channel, lake or dam; and</p> <p>(b) Wetlands and pans: the delineated boundary (outer temporary zone) of any wetland or pan.</p>                                                                                                                                                                                                                                                                                                                                           |
| Regulated area of a watercourse | <p>(a) The outer edge of the 1 in 100 year flood line and /or delineated riparian habitat, whichever is the greatest distance, measured from the middle of the watercourse of a river, spring, natural channel, lake or dam;</p> <p>(b) In the absence of a determined 1 in 100 year flood line or riparian area the area within 100m from the edge of a watercourse where the edge of the watercourse is the first identifiable annual bank fill flood bench (subject to compliance to section 144 of the Act); or</p> <p>(c) A 500 m radius from the delineated boundary (extent) of any wetland or pan.</p> |

## 5 Description of activity and affected water resource(s)

This licence authorises the applicant, City of Cape Town (CoCT), to carry out de-watering activities as part of the refurbishment works to be done for Basin 6 of the Atlantis Water Resource Management Scheme (AWRMS) on Portion 7 of Brakke Fontein 32, Cape RD. This Licence further authorises the applicant to discharge the aforementioned de-watered groundwater into the Donkergat River on Portion 76 of Driefontein 29 via an existing pipeline. The activity is in quaternary catchment G21B which falls within the Berg-Olifants Water Management Area, Western Cape.



Provincial Head

## APPENDIX I

### GENERAL PROVISIONS AND CONDITIONS OF THE LICENCE

#### 1. GENERAL PROVISIONS

##### Legal Framework

- 1.1 This licence is subject to all applicable provisions of the National Water Act, 1998 (Act 36 of 1998), as amended from time to time.
- 1.2 The licence shall not be construed as exempting the Licensee from compliance with the provisions of any other applicable Act, Ordinance, Regulation or By-law.

##### Administrative duties/obligations/responsibilities of the licensee

- 1.3 The responsibility for complying with the provisions of the licence is vested in the licensee and not any other person or body.
- 1.4 The licensee must obtain any proprietary rights or servitudes at his / her own cost for lawful access to a property not owned by the Licensee
- 1.5 The licensee will be responsible for any water use charges or levies imposed by a Responsible Authority according to the pricing strategy. The levies/charges will be charged from the date of the issuance of this licence.
- 1.6 No water taken may be pumped, stored, diverted, or alienated for any other purpose other than as intended in this licence without the written approval of the Delegated Authority.
- 1.7 It is the responsibility of the licensee to request an amendment of this licence to reflect the registered volume should the requirements change. All requests must be made to the Provincial Head/CEO.
- 1.8 If the water use entitlement is not fully utilised within the 5 (five) year period referred to in condition 2.4 in Appendix I, the licence may be amended to reflect the extent of the water use that is being utilised, or the licence may be cancelled.
- 1.9 A request for extension of time to fully utilise an entitlement to use water must be submitted to the Provincial Head/CEO, at least three months, before the expiry of the 5 (five) years referred to in condition 2.4 in Appendix I. An extension may only be made after the Delegated Authority has considered all relevant factors.



- 1.10 Only one request for extension of time for commencement or of fully exercising of water use licence will be considered.

### **Change of property details**

- 1.11 Amendment of the licence to reflect the name of the new owner will not be approved if there are any outstanding charges or levies imposed by the Responsible Authority to the previous owner.

### **Issue of licence no guarantee of supply**

- 1.12 This licence does not imply any guarantee that the said quantities and qualities of water will be available at present or at any time in the future.

### **Monitoring**

- 1.13 The quantity of water authorised to be taken in this licence may not be exceeded.
- 1.14 The quality of water authorised to be disposed and discharged in this licence may not be exceeded.
- 1.15 The licensee must adhere to the monitoring programmes submitted with the application.
- 1.16 Any changes to the monitoring programmes should be approved by the Provincial Head/CEO.

### **Reviewal of licences**

- 1.17 No water taken may be pumped, stored, diverted, or alienated for any other purpose other than as intended in this licence without the written approval of the Delegated Authority.

### **Effecting of the Reserve**

- 1.18 While effect must be given to the Reserve as determined in terms of the Act, where a desktop determination of the Reserve has been used in issuance of a licence, when a comprehensive determination of the Reserve has finally been made, it shall be given effect to.

### **Liabilities and Rights**

- 1.19 The Department accepts no liability for any damage, loss or inconvenience, of whatever nature, suffered as a result of, shortage of water; inundations or flood; siltation of the resource; and required Reserve releases.



- 1.20 The Minister reserves the right to construct water storage works at any time in any watercourse and to store all surplus water reaching the storage works, as well as to control the allocation of such water.

### **Restrictions**

- 1.21 The licensee must adhere to any restrictions that are gazetted and imposed on the respective water resource.

### **Water measurement and reporting**

- 1.22 The Provincial Head/CEO may at any time direct a licensee, at the licensee's expense, to have the accuracy of the licensee's water measuring device/s verified, in addition to the requirements of their inspection and calibration schedule by a person or an institution accredited to verify the accuracy.

### **Pump stations**

- 1.23 The licensee must design all new pump stations in such a manner that environmental and health risks due to the discharge of untreated sewage into the water resource are avoided.
- 1.24 The designs of all new pump stations and the refurbishment of existing ones must be approved by the responsible authority.
- 1.25 No new pump stations will be allowed within the 1:100 year flood line or riparian habitat, whichever is the greatest and / or within the temporary zone of a wetland unless authorised.

### **Manholes**

- 1.26 The licensee must ensure that:
- 1.26.1 Manholes are covered at all times with a suitable cover that is not prone to theft and cannot be removed by unauthorised persons;
  - 1.26.2 No new manholes are constructed in the 1:100 year flood line or riparian habitat, whichever is the greatest and / or within the temporary zone of a wetland. Existing manholes situated within the 1:100 year flood lines must be sealed adequately to ensure no ingress of water during any rainfall event.

### **Operations**

- 1.27 Suitably qualified and experienced mechanical and electrical artisans must be available to be called in for inspection and maintenance of the works.



Provincial Head



### **Stormwater Management**

- 1.28 Stormwater leaving the licensee's premises shall in no way be contaminated by any substance, whether such substance is a solid, liquid, vapour or gas or a combination thereof which is produced, used, stored, dumped, spilled on the premises.

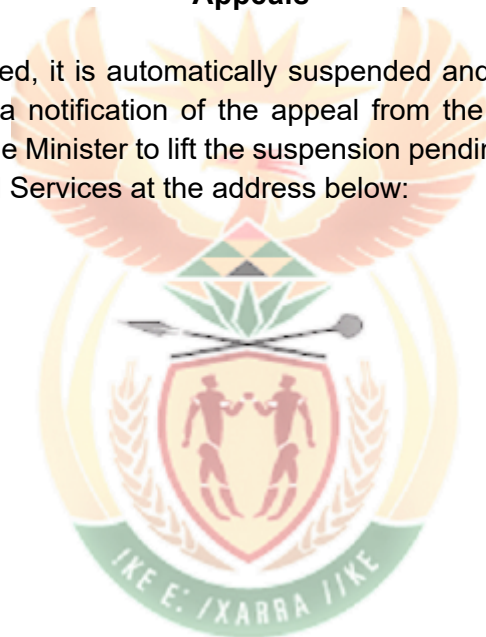
### **Amendments**

- 1.29 The licensee may apply for amendment of this licence in terms of the Act at any time during the period of validity of this licence. Applications must be submitted to the Provincial Head/CEO.

### **Appeals**

- 1.30 If this licence is appealed, it is automatically suspended and the water use activities must cease upon receipt of a notification of the appeal from the Department, alternatively the licensee may request the Minister to lift the suspension pending conclusion of the appeal via the Chief Director Legal Services at the address below:

Private Bag X313,  
**Pretoria**  
0001



A handwritten signature in black ink, consisting of a series of loops and curves.

Provincial Head

## 2. GENERAL CONDITIONS

### **Administrative duties/obligations/responsibilities of the Licensee**

- 2.1 The licensee must avail an original copy of the water use licence and the supporting reports upon request by the Department.
- 2.2 The conditions of the authorisation must be brought to the attention of all persons (employees, sub-consultants, contractors etc.) associated with the undertaking of these activities and the licensee must take such measures that are necessary to bind such persons to the conditions of this licence.

### **Commencement of a water use licence.**

- 2.3 The licensee must inform the Provincial Head/CEO in writing within seven (7) days after the licensee commences with water use entitlement and again within thirty (30) days upon completion of the activity/ies.
- 2.4 The water uses authorised in this licence must be fully utilised within two (5) years from the date of issuance of this licence.
- 2.5 If the licensee cannot fully utilise the water use entitlement within two (2) years, the licensee may request from the Provincial Head/CEO, with reasons, an extension of time to fully utilise the said water use entitlement.
- 2.6 If the above condition (2.5) is not adhered to, the water use entitlement may be cancelled or amended accordingly.

### **Change of details of licensee or property**

- 2.7 The licensee must inform the Provincial Head/CEO of any change of ownership, name, address, premises and/or legal status within sixty (60) days of such change taking place.
- 2.8 If the properties in respect of this licence is/are subdivided or consolidated, the licensee must provide full details of any change(s) in respect of the properties to the Provincial Head/CEO within sixty (60) days after the registration of title deed(s).
- 2.9 If the licensee is not the end user/beneficiary of the water user related infrastructure and will not be responsible for long term maintenance and management of the infrastructure, the licensee must provide a hand over report to the successor in title including a brief management/maintenance plan and the agreement for infrastructure along with allocation of responsibilities, within sixty (60) days after the date of change of end user or beneficiary.



Provincial Head

### Early renewal for the Licence

- 2.10 The licensee must, if needed, apply for early renewal of this licence in terms of the Act within six (6) months before the expiry date of a licence. The application must be submitted to the Provincial Head/CEO.

### Malfunctions, incidences, contingencies and pollution prevention

- 2.11 The licensee must service all vehicles and other machinery outside the extent of the watercourse/s.
- 2.12 Oils and other potential pollutants must be disposed of at a licensed site, with the necessary agreement from the owner of such a site.
- 2.13 The licensee must handle, transport, store and use any hazardous substances according to the relevant legislation or South African National Standards (SANS).
- 2.14 Accurate and up-to-date records must be kept of all system malfunctions resulting in non-compliance with the requirements of this licence. The records must be available for inspection by the Provincial Head/CEO upon request. Such malfunctions must be tabulated under the following headings with a full explanation of all the contributory circumstances:
- 2.14.1 operating errors;
  - 2.14.2 mechanical failures (including design, installation or maintenance);
  - 2.14.3 environmental factors (e.g. flood);
  - 2.14.4 loss of supply services (e.g. power failure); and
  - 2.14.5 other causes.
- 2.15 The licensee must, within 24 hours, notify the Regional Head of the occurrence or potential occurrence of any incident which has the potential to cause, or has caused water pollution, pollution of the environment, health risks or which is a contravention of the licence conditions
- 2.16 The licensee must, within 14 days, or a shorter period of time, as specified by the Provincial Head/CEO, from the occurrence or detection of any incident referred above, submit an action plan which must include a detailed time schedule to the satisfaction of the Provincial Head/CEO of measures to be taken to:
- 2.16.1 correct the impacts resulting from the incident;
  - 2.16.2 prevent the incident from causing any further impacts; and
  - 2.16.3 prevent a recurrence of a similar incident
- 2.17 The licensee must adhere to the Wastewater Incident Management Protocol.

- 2.18 The licensee must compile/develop an environmental call and reporting centre protocol, which must ensure the investigation of every complaint within 24 hours.
- 2.19 The licensee must implement and promote an environmental call and reporting centre.
- 2.20 The licensee must rectify all valid issues reported within seven (7) days of the issue being reported to the licensee. All valid complaints must be recorded in complaints register which will include reasons for non-rectification of issues raised.

### **Water measurement and reporting**

- 2.21 The licensee shall install appropriate water measuring devices to measure the amount of water abstracted prior use of water.
- 2.22 The licensee shall ensure that all measuring, recording and monitoring devices are properly maintained and in good working order as per design specification and must be easily accessible. This shall include a programme of checking, calibration, and/ or renewal of measuring devices.
- 2.23 Calibration /verification certificates of the flow measuring, recording and integrating devices must be available for inspection by the Provincial Head/CEO or the representative upon request.

### **Monitoring, Methods of analysis and Reporting**

- 2.24 Sample analysis must be conducted by a recognized analytical laboratory, accredited by the South African National Accreditation System (SANAS), or that participates in a recognised Proficiency Testing Scheme to analyze the relevant constituents in wastewater.
- 2.25 The monitoring points must not be changed without prior notification to and written approval by the Provincial Head/CEO.
- 2.26 The date, time and monitoring point in respect of each sample taken shall be recorded together with the results of the analysis.
- 2.27 The licensee shall submit the results of analysis for all the monitoring requirements to the Provincial Head/CEO on a monthly basis under reference number 27/2/2/G221/17/5.
- 2.28 The licensee must submit an Annual Report to the Provincial Head/CEO for the purposes of quantifying the potential impacts of the de-watered groundwater on the water resources.

- 2.29 The licensee must develop and implement a Wastewater Risk Abatement Plan (W2RAP), according to W2RAP guideline: WRC report TT489/11 dated June 2011 and any subsequent updates. This must be submitted to the Provincial Head/CEO annually. The Wastewater Risk Abatement Plan should be practical and site specific.

### **Stormwater Management**

- 2.30 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to erosion and excessive levels of silt entering the stream.
- 2.31 Storm water management facilities must be constructed, operated and maintained in a sustainable manner throughout the project as detailed in the Storm Water Management Plan.
- 2.32 Increased runoff due to vegetation clearance and/or soil compaction must be managed, and steps must be taken to ensure that storm water does not lead to bank instability and excessive levels of silt entering the stream.
- 2.33 All storm-water that would naturally run across the dirty areas shall be diverted via lined channels and drains designed to contain the 1:50 year flood.
- 2.34 The dirty storm water system shall be designed and implemented to provide suitable routing and pumping capacity for contaminated storm water from the individual facilities to the respective storm water dams in accordance with the design specifications.
- 2.35 Clean storm water must be diverted from Basin 6 and must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water flow.
- 2.36 The licensee must ensure that no storm water should ingress into the wastewater system and that there is no wastewater ingress into the storm water system.
- 2.37 Wastewater impoundments must be designed, constructed and managed to ensure that there is sufficient capacity to contain the 1:50 year flood event, with a minimum of 0.8 m freeboard. Freeboard will be defined as the difference between the water level and the crest of the overflow.

### **Restrictions on access**

- 2.38 Strict access procedures must be developed and followed in order to control access to the property. Access to the facility/ies must be limited to authorised persons and animals.



Provincial Head



- 2.39 Notices prohibiting unauthorised persons from entering the areas as well as internationally acceptable signs indicating the risks involved in case of an unauthorised entry must be displayed along the boundary fence of these areas.

### **Pipelines**

- 2.40 Pipelines used for the conveyance of effluent must be painted in a conspicuous colour or manufactured of a coloured material distinctly different from the colour of the pipelines in which drinking water is flowing to avoid the possibility of any cross-connections of different pipelines.
- 2.41 All stop-valves and taps on the pipelines conveying water containing waste must be of a type that can be opened and closed by means of a loose wrench. This wrench must be in the safekeeping of a responsible member of the staff to prevent unauthorised use thereof.
- 2.42 Pollution caused by spills from the pipelines used for conveyance of effluent must be prevented.
- 2.43 The pipelines containing waste must withstand the 1:100 year flood where they cross a water resource and must not affect the 1:100 year flood or flow regime.
- 2.44 Notices manufactured of a durable weather-proof material warning against the use of water containing waste for drinking and washing purposes must be displayed at prominent places where the waste is being reused and at all taps. Such notices shall be worded in the official languages applicable in the area.

### **Pump stations**

- 2.45 The licensee must comply with the approved scheduled monitoring and maintenance plan for all wastewater pump stations and manholes under its control. Evidence of the implementation of the plan must be made available upon request.
- 2.46 All pump stations must be operated in such a manner that they have an emergency containment facility with sufficient capacity to ensure untreated effluent retention up to a 24-hour period.

### **Operations**

- 2.47 The licensee must develop and enforce bylaws to prevent the discharge of any substance into the sewerage system which could have a deleterious effect on the operation of works and/or the final discharge of water containing waste to the Donkergat River.

### **Auditing and reporting**

- 2.48 The licensee must conduct annual internal audits on compliance with the conditions of this licence. The first audit must be conducted within ninety (90) calendar days from the date of commencement of water use entitlement. A report on internal audits must be submitted to the Provincial Head/CEO within sixty (60) calendar days of the finalisation of the audits.

### **Compensative measures**

- 2.49 The licensee must prevent adverse effects on other water users. All complaints must be recorded in complaints register and be investigated by a suitable qualified person, appointed by the accredited by a Registration body, and if investigations prove that the licensee has impaired the rights of other water users, the licensee must implement appropriate compensative measures determined by Provincial Head/CEO.

### **Closure Plan**

- 2.50 A closure plan of any of the water use activities must be submitted three (3) months before commencing with closure to the Provincial Head/CEO for written approval.



## APPENDIX II

### Section 21(f) of the Act: Discharging waste or water containing waste into a water resource

#### 1. QUANTITY OF WATER CONTAINING WASTE

- 1.1 This licence authorises the City of Cape Town to discharge water containing waste from de-watering activities associated with the refurbishment works at Basin 6 of the Atlantis Water Resource Management Scheme to a maximum quantity of three hundred and forty-two thousand cubic metres (342 000 m<sup>3</sup>) over an 24-month period into the Donkergat River at the following geographical location:

**Lat.: -33.63878**

**Lon.: 18.50432**

- 1.2 The quantity of water containing waste authorised to be discharged of in terms of this licence must not be exceeded.

#### 2. QUALITY OF WATER CONTAINING WASTE DISCHARGED

- 2.1 Quality of the wastewater discharged into the Donkergat River from the Basin 6 de-watering activities must not exceed the limits shown in Table 3:

**Table 3: Quality of wastewater to be discharged**

| Variables                      | Limit                                                                  | Monitoring Frequency |
|--------------------------------|------------------------------------------------------------------------|----------------------|
| pH                             | 5.5 – 5.9                                                              | Monthly              |
| Dissolved Oxygen               | At least 75 % saturation.                                              |                      |
| Electrical Conductivity (mS/m) | Not to be increased by more than 75 mS above that of the intake water. |                      |
| Temperature                    | 35°C maximum                                                           |                      |
| Chemical Oxygen Demand         | Not to exceed 75 mg/l                                                  |                      |
| Faecal coliforms               | 0 per 100 ml                                                           |                      |
| Orthophosphate                 | 1 mg/l                                                                 |                      |
| Ammonia                        | 1 mg/l                                                                 |                      |
| Residual chlorine              | 0.1 mg/l                                                               |                      |
| Suspended Solids               | Not to exceed 90 mg/l above that of the intake water.                  |                      |
| Arsenic                        | 0.1 mg/l                                                               | Quarterly            |
| Cyanide                        | 0.5 mg/l                                                               |                      |
| Manganese                      | 0.1 mg/l                                                               |                      |
| Total Chromium                 | 0.05 mg/l                                                              |                      |
| Copper                         | 0.02 mg/l                                                              |                      |
| Iron                           | 0.3 mg/l                                                               |                      |

|         |           |  |
|---------|-----------|--|
| Lead    | 0.1 mg/l  |  |
| Mercury | 0.02 mg/l |  |
| Zinc    | 0.3 mg/l  |  |

### 3. SURFACE WATER MONITORING

#### 3.1 Quantity

- 3.1.1 The quantity of the water containing waste discharged into the Donkergat River shall be metered and recorded daily or monthly as specified in Table 6-1 of the WULA Report for S21 (f) & (j) by Umvoto dated June 2022 and Table 7-1 of the WULA Report for S21 (i) by Umvoto dated May 2022.

#### 3.2 Quality of the water containing waste

- 3.2.1 Monitoring for quality must be done as specified in Table 6-1 of the WULA Report for S21 (f) & (j) by Umvoto dated June 2022 and Table 7-1 of the WULA Report for S21 (i) by Umvoto dated May 2022.
- 3.2.2 The quality of the water containing waste shall be monitored by taking grab samples at the monitoring points described in condition 3.2.1 of Appendix II. Each sample shall be analysed according to condition 1.15 of Appendix I for the variables and at frequency shown in Table 3 in condition 2.1 in Appendix II and/or any other variable as may be required from time by the Provincial Head/CEO.
- 3.2.3 Monitoring and reporting to the Provincial Head/CEO must be carried out as stipulated under condition 2.9 of Appendix IV.

### 4. SITE SPECIFIC CONDITIONS

- 4.1 The water quantity being de-watered and discharged must be monitored daily and recorded.
- 4.2 The water removed underground must remain uncontaminated and discharged directly into the Donkergat River.
- 4.3 The water to be discharged should thus not exceed these limits as detailed in Table 3 of Appendix II.

## APPENDIX III

### Section 21(i) water use: Altering the bed, banks, course or characteristics of a watercourse/s

#### 1. SECTION 21(i) ACTIVITIES

- 1.1 This licence authorises the Section 21(i) water use activities as set out in Table 4 and in the water use licence application reports submitted to the Department or the Regional Head (refer condition 1.2)

**Table 4: Water uses authorised**

| Water Use description                               | Purpose                      | Property/ (ies)                       | Extent/Dimensions (m)  | Coordinates                       |
|-----------------------------------------------------|------------------------------|---------------------------------------|------------------------|-----------------------------------|
| <b>Section 21(i) water uses</b>                     |                              |                                       |                        |                                   |
| Discharging of raw groundwater into Donkergat River | De-watering for construction | Portion 76 of Driefontein 29, Cape RD | 342 000 m <sup>3</sup> | Lat.: -33.63878<br>Lon.: 18.50432 |

- 1.2 The licensee must carry out and complete all the activities listed under condition 1.1 according to the following documents:
- 1.2.1 WULA Report for S21 (f) & (j) by Umvoto dated June 2022.
- 1.2.2 WULA Report for S21 (i) by Umvoto dated May 2022.
- 1.3 No activity must take place within the extent of a watercourse/s, unless authorised by this licence.
- 1.4 No fundamental alterations of the work method statement, site plan/s and drawings are allowed, unless a modification is requested and granted by the responsible authority in writing; and

#### 2. FURTHER REQUIREMENTS

##### 2.1 Structures, Construction Plant and Materials

- 2.1.1 Structures must withstand a 1:100-year flood.
- 2.1.2 Structures must be non-erosive, structurally stable and must not induce any flooding or safety hazard.

- 2.1.3 Structures must be inspected for a minimum of once a quarter for accumulation of debris, blockage, erosion of abutments and overflow areas - debris must be removed and damages must be repaired and reinforced within a reasonable time.

## 2.2 Water Quality

- 2.2.1 Activities must be scheduled to take place during the dry seasons when flows are lowest where reasonably possible.
- 2.2.2 The licensee must ensure that the quality of the water to downstream water users does not decrease because of the water use activities listed under condition 1.1.

## 2.3 Riparian and Instream Habitat (Vegetation and Physical Structure)

- 2.3.1 Activities must not occur in sensitive riffle habitats unless authorised by this licence.
- 2.3.2 Indigenous riparian vegetation, including dead trees, outside the limits of disturbance indicated in the site plans must not be removed from the area.
- 2.3.3 Alien and invader vegetation must not be allowed to further colonise the area, and all new alien vegetation recruitment must be sustainably eradicated or controlled.

## 2.4 Biota

- 2.4.1 The licensee must allow movement of aquatic species, including migratory species where applicable.
- 2.4.2 Ensure implementation of all mitigation measures not to disturb the breeding, nesting and/or feeding habitats and natural movement patterns of aquatic biota.

## 3. CONSTRUCTION AND OPERATIONAL PHASE

- 3.1 Water quality must be monitored at a minimum of two water quality monitoring points, one upstream and one downstream of the affected length of the watercourse.
- 3.2 A bio-monitoring programme (SASS) must be implemented along the affected length of the watercourse/s and must include a habitat assessment.
- 3.3 Exact positions of monitoring points must be indicated on the master layout plan (including their co-ordinates).

## 4. SITE SPECIFIC CONDITIONS





- 4.1 A monitoring programme, based on the reports referenced in condition 1.2 of Appendix III, must be put into place before commencing with the proposed activity.



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Provincial Head



## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

### APPENDIX IV

**Section 21(j) of the Act: Removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of people**

#### 1. REMOVING OF WATER FOUND UNDERGROUND

- 1.1 The licensee is authorised to remove maximum volume of 342 000 m<sup>3</sup> of water found underground as indicated in Table 5.

**Table 5: Quantity of water to be removed**

| Water Use Description                      | Purpose      | Property                                | volume (m <sup>3</sup> /a) | Co-ordinate                       |
|--------------------------------------------|--------------|-----------------------------------------|----------------------------|-----------------------------------|
| Dewatering around Basin 6                  | Construction | Portion 7 of Brakke Fontein 32, Cape RD | 228 000                    | Lat.: -33.60870<br>Lon.: 18.47935 |
| <b>Total volume: 342 000 m<sup>3</sup></b> |              |                                         |                            |                                   |

- 1.2 The quantity of water removed from underground must be metered and recorded on a daily basis and submitted to the Provincial Head/CEO as stipulated in condition 2.9.
- 1.3 Self-registering flow meters must be installed in the delivery lines at easily accessible positions near the dewatering points.
- 1.4 The licensee shall follow acceptable construction, maintenance and operational practices to ensure the consistent, effective and safe performance of the underground water removal system.
- 1.5 Reasonable measures must be taken to provide for mechanical, electrical or operational failures and malfunctions of the underground water removal system.

#### 2. Site specific conditions

- 2.1 The quantity of groundwater removed must not exceed 342 000 m<sup>3</sup>/a.
- 2.2 Groundwater levels from nearby boreholes must be monitored.
- 2.3 Groundwater discharged during the dewatering process must be monitored.
- 2.4 The quality of groundwater discharged into the Donkergat River must be monitored.
- 2.5 Monitoring as required above must be in accordance with the proposed monitoring network in Table 6-1 of the WULA Report for S21 (f) & (j) by Umvoto dated June 2022.

Provincial Head

- 2.6 The groundwater table should not be lowered by more than 1 m up to 1 km away from the de-watering activity and not exceed 5 m at any given location or time.
- 2.7 The Applicant must follow acceptable construction, maintenance, and operational practices to ensure the consistent, effective, and safe performance of the underground water removal system (sub-soil drain).
- 2.8 After the completion of construction all dewatering activity must cease.
- 2.9 City of Cape Town must within 6 months of the dewatering taking place submit a monitoring report that contains at least analysis of operational and monitoring data and recommendations. Thereafter such a report is to be submitted at least every 6 months to support ongoing monitoring and evaluation of compliance with the motoring requirements.

**END OF LICENCE**



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