

RE: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL - Message (HTML)

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RE: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL

KB Kevin Balfour <Kevin.Balfour@capetown.gov.za>
 To: Shamile Manie
 Cc: Chaneë Johnstone; Sven Sotemann; Elroy Walters; Mvuyisi Mzozoyana; Mazunda Halwiindi
 Wed 2020/12/02 14:07

Good afternoon,

Please find attached a capacity letter request for the abovementioned erf.

Kind regards,

Elroy Walters PrEng
 Associate (Civil Infrastructure)
 E: ewalters@eceng.co.za
 T: +27 21 975 1718 | F: +27 21 975 5167 | C: +27 82 412 1851 | W: www.eceng.co.za
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 To: Shamile Manie
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 Wed 2020/12/02 14:07

Subject: RE: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL

Dear Elroy

Sorry for the delay, please find attached W&S comment as required.

Kind regards

Shamile Manie
 Title: Water Demand Management – Water and Sanitation Department; Water and Waste Directorate; City of Cape Town
 Tel: 400 4961 |

From: Elroy Walters <ewalters@eceng.co.za>
Sent: Friday, 21 August 2020 3:17 PM
To: Thandolwethu Mcinga <Thandolwethu.Mcinga@capetown.gov.za>
Cc: Shamile Manie <Shamile.Manie@capetown.gov.za>
Subject: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL

Good afternoon,

RE: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL



Kevin Balfour <Kevin.Balfour@capetown.gov.za>

To ☐ Shamile Manie

Cc ○ Chanee Johnstone; ○ Sven Sotemann; ○ Elroy Walters; ○ Mvuyisi Mzozoyana; ○ Mazunda Halwiindi

Wed 2020/12/02 14:07

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

Morning Shamile,

Your letter, ref 20200821-Z, dated 2 Dec 2020, refers.

The City of Cape Town's bulk supply system has sufficient water resource, treatment, bulk storage and conveyance capacity to supply the estimated annual average daily demand of 113 kl/day of the proposed development. I therefore have no objection to the proposed development.

Kevin Balfour (Pr Eng)

Head: Infrastructure & Project Implementation: Bulk Water Branch - Water & Sanitation Department; Water & Waste Directorate

WORKING FROM HOME DURING COVID-19 | Cell: +27 84 629 4314 | Email: kevin.balfour@capetown.gov.za

From: Shamile Manie

Sent: 02 December 2020 05:07

To: Elroy Walters

Cc: Chanee Johnstone; Sven Sotemann; Kevin Balfour

Subject: RE: CAPACITY REQUEST FOR ERF 18354, BRACKENFELL

Dear Elroy

Sorry for the delay, please find attached W&S comment as required.

Kind regards,



Legend



1:1 500

Transverse Mercator Projection, Central Meridian 19° East,
WGS84 Ellipsoid using the Hartebeesthoek94 Datum

Please Note:

- Every effort has been made to ensure the accuracy of information in this map at the time of publication.
- The spatial data portrayed in this map is as current, accurate and complete as provided by the various line departments responsible for the maintenance of these datasets.
- The City of Cape Town accepts no responsibility for, and will not be liable for, any errors or omissions contained herein.

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Water and Sanitation Department

Author:
Date: 26 August 2020





Legend



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Transverse Mercator Projection, Central Meridian 19° East,
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Water and Sanitation Department

Author:
Date: 26 August 2020



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Making progress possible. Together.

2 December 2020

Our Ref: 20200821-z

Elroy Walters
Element
Consulting Engineers
Email: ewalters@eceng.co.za

COMMENT ON WATER AND SANITATION SERVICES FOR THE PROPOSED LIGHT INDUSTRIAL DEVELOPMENT ON ERF 18354: BRACKENFELL

Background

This letter serves as comment on water and sewer network capacity for the proposed development in Brackenfell.

The report provides an overview of the existing water and sewer infrastructure near the development, associated conditions and technical requirements to be implemented with respect to this application. See figure 1.

The proposed water and sewer requirements are estimated as below:

Description		Potable Water Demand			Sewer Flow	
ERVEN	Area	Total AADD (kl/d)	Peak Flow (l/s) (PF=2.5)	Fire flow (l/s)	Total ADWF (kl/d)	Peak Flow (Dry weather) (l/s) (PF=2.5)
18354	70710	113	3.3	15	79	2.3

*as per consultant's figures

Water Reticulation

There is an existing water network around the erf. There is a 150 mm Ø water main located in Leo Close to which the developer could connect. The water main has sufficient velocity and pressure currently to service the development.

The developer is encouraged to incorporate various water saving measures within the development. This development falls within a proposed PRV zone.

If/when pressure management takes place within this zone, there could be significantly lower pressures on the top floors- this should be taken in to consideration for design purposes.

See figure 2 for details of the water network.

Bulk Water

No infrastructure under the control of the City of Cape Town's Bulk Water Branch exists in the immediate vicinity of the proposed development shown in the application.

The City of Cape town's bulk supply system has sufficient water resource, treatment, bulk storage and conveyance capacity to supply the estimated annual average daily demand of 113 kl/day proposed development.

May be revised after receiving feedback from Bulk Water Branch.

Sewer Reticulation

There is an existing 160 mm Ø sewer main in Taurus Road. The development on the erf will drain in a north western direction towards the sewer main in Taurus Road. The sewer network downstream has sufficient relative spare capacity to convey the proposed flow to the Wastewater Treatment Plant. There is however, a portion between Bottelary Road and Annandale Road which have some constraints with regards to spare capacity. Under rain conditions surcharge may occur in this area.

See Figure 3 for details of the sewer network.

Wastewater treatment

The sewer network falls within the catchment of the Bellville Wastewater Treatment Works, the ADWF sewerage contribution of 79 kl/day can be accommodated. There is sufficient capacity at the WWTW to accept the effluent from this development.

Conclusion

The existing water reticulation network can supply the peak demand. The downstream sewer network has adequate relative spare capacity to convey the sewerage contribution, except that surcharge may occur in the portion mentioned above.

Conditions

The development can proceed if the following conditions are met:

1. Development contributions is payable as per the DC policy, to be quantified by the Reticulation District Head
2. All costs relating to service connections, alterations to or provision of new water and sewerage services will be for the account of the applicant.
3. Water saving measures to be incorporated into the development.

Additional Technical Requirements

4. The water and sewer capacities allocated according to this document, if not taken up, shall not be reserved beyond the lesser of 5 years or the approved development period.
5. Water and Sanitation municipal service designs to be designed according to Departmental Service Standards and be approved prior to construction.
6. Stormwater ingress to be eliminated from sewer system.
7. Services infrastructure is subject to quality control during construction, testing prior to approval.

General/ Disclaimer

1. Information provided is based on best available data.
2. The flows and pressures provided in this comment are theoretical and not measured.

Yours Faithfully

2020/12/02

X 

Signed by: Shamile Manie

On behalf of

Zolile Basholo

ACTING DIRECTOR: WATER & SANITATION DEPARTMENT, TECHNICAL SERVICES