

**REPORT TO SUBCOUNCIL
SUBCOUNCIL 3**

-
1. **ITEM NUMBER :** 03SUB 38/11/19
2. **SUBJECT:** TABLEVIEW EAST PUMPSTATION INCIDENT FEEDBACK

ONDERWERP: TERUGVOERING OOR VOORVAL BY POMPSTASIE IN
TABLE VIEW-OOS

ISIHLOKO: INGXELO EMALUNGA NESEHLO ESENZEKA
KWISIKHULULO SOKUMPOMPA AMANZI ESISEMPUMA YE-TABLE VIEW

3. **PURPOSE**

The purpose of this report is to provide insight into the actions taken during the Table View East pump station failure. The findings of the root cause analysis and planned action items are also discussed.

4. **FOR DECISION BY**

For information only

5. **EXECUTIVE SUMMARY**

The Table View East pump station failed on the 3rd October 2019 resulting in a sewage spill into the Diep River catchment. An official alarm report was circulated on the 4th October 2019 in accordance with the Pollution Incident Protocol. Operations installed mobile pumps to assist with over-pumping and applied bio-remedial products in mitigation. A root cause analysis session was held and a number of mitigating action items were identified. The pump station was reinstated on the 28 October 2019.

6. **RECOMMENDATIONS**

Not delegated: for decision by Council:

It is recommended that:

- a) the report be noted

Making progress possible. Together.

AANBEVELINGS

Nie gedelegeer nie: vir besluitneming deur die Raad:

Daar word aanbeveel dat:

- a) daar van die verslag kennis geneem word

Azigunyaziswanga: isigqibo seseBhunga:

Kundululwe ukuba:

- a) Makuqwalaselwe ingxelo.

7. DISCUSSION/CONTENTS

7.1. Incident

- a) Operations were alerted to a failure at Table View East pump station late on 3rd of October 2019 and a team was sent to attend.
- b) The teams found that one of two remaining pumps had failed. The remaining pump could not cope with the inflow causing the wet well to overflow and sewage to back up into the upstream sewers.
- c) Operations placed an order with Engineering and Asset Management (E&AM) to provide mobile diesel pumps for over-pumping. Three pumps were delivered within an hour of the official request. An additional two were requested and provided the following day.
- d) The Pollution Incident Response Protocol was activated on the 4th of October 2019 when sewage inflow could not be contained resulting in a spill into the Diep River catchment.
- e) An alarm report was raised requesting assistance from multiple stakeholders.
- f) Assistance included an environmental impact assessment, wastewater treatment plant flow rates and sampling of the affected waters.
- g) Bio-remedial products were applied to the affected area.
- h) The SCM emergency dispensation was followed to effect repairs to the failed pumps while over-pumping was continuing.
- i) A NEMA 30 report was submitted to the Provincial Department of Water and Sanitation on 22 October 2019.
- j) Reinstatement of the pump station with the original repaired pumps was completed 28 October 2019.

7.2. Root Cause

- a) Foreign objects (including rags) deposited into the sewers upstream of the pump station caused the second pump to fail. The remaining pump could not cope with the peak flow which resulted in the overflow and surcharge of the upstream sewers.
- b) Consequential overflows followed in Flamingo Vlei.

7.3. Mitigating Measures

Basic preventative measures identified to reduce the likelihood of another incident are as follows:

- a) Replacement of all isolating valves by February 2020
- b) Cleaning of the wet well sump on a more frequent basis
- c) Investigation into the reinstatement of a containment pond

7.4. Constitutional and Policy Implications

National Environmental Management Act (NEMA), Section 30 which relates to:

"The control of environmental incidents. An incident is defined as "an unexpected, sudden and uncontrolled release of a hazardous substance, including from a major emission, fire or explosion, that causes, has caused or may cause significant harm to the environment, human life or property".

7.5. Sustainability implications

Does the activity in this report have any sustainability implications for the City?

No ☐ Yes ☒

The continuous abuse of the sewer system is not financially sustainable and places strain on limited resources.

7.6. Legal Implications

National Environmental Management Act (NEMA), Section 30

7.7. Staff Implications

Does your report impact on staff resources or result in any additional staffing resources being required?

No ☐

Yes ☒

The need for Environmental Interns serve as Incident Coordinators was identified.

7.8. **Other Services Consulted**
Not applicable

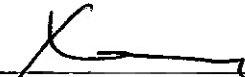
ANNEXURES

Not applicable

FOR FURTHER DETAILS CONTACT :

NAME	Brian Thomson
CONTACT NUMBERS	021 444 3391
E-MAIL ADDRESS	BrianAndrew.Thomson@capetown.gov.za
DIRECTORATE	Water and Waste
FILE REF No	

19 NOV 2018



MANAGER: RETICULATION (ACTING)
Amanda Murray

NAME

DATE

2019/11/07

Comment:

NOTED.



DIRECTOR (ACTING)
Zolile Basholo

NAME

DATE

Z. Basholo

11 November 2019

Comment:



Acting EXECUTIVE DIRECTOR
Michael John Webster

NAME

DATE

Michael John Webster

2019 -11- 15

Comment:

SUPPOTED

W209/1345

AUTHORIZATION: ACTING APPOINTMENT (HR571)

EMPLOYEE TO BE APPOINTED IN ACTING POSITION:

EMPLOYEE: Amanda Murray	EMPLOYEE NO: 10055342	Highest Qualification obtained: BTECH
POSITION: Head: Technical Services	POSITION NO: 9400470	POST LEVEL: T17A

The following functions will be performed only/ in addition to his/her own functions(indicate > or < 50%):

The employee is required to undertake **100%**, of the key performance areas.

ACTING POSITION DETAILS:

(Please mark where applicable)

ORG UNIT: 70000238		DEPARTMENT: Water and Sanitation		
POSITION Manager: Reticulation	FILLED	VACANT	BUDGETED	NOT BUDGETED
POSITION NO: 94000464	POST LEVEL: T20D		Qualification required: NQF 6, Bsc Civil Eng	
CURRENT/ PREVIOUS INCUMBENT: P Maritz			VACATED ON: Seconded	
ACTING PERIOD :	FROM: 1July 2019		UNTIL: 30 November 2019	

Reason for acting and motivation regarding the critical nature of the post.

The requirement to severely reduce water demand has placed the Water and Sanitation department and related customers under significant stress. The long dry summer, much lower system pressure, rapid implementation of water demand devices has made many unhappy customers.

The changes have also resulted in challenges on the customer and meter management side of the business, as a result of the rapid roll-out of water manage devices, significantly increased in number of complaints and higher levels of non-payments. Timeous response to customer queries relating to meters cannot be addressed by simply adding more resources in the current organizational model

While the process of business improvement has started it is necessary to bolster the capacity of the department in order to improve service delivery in the short term, while simultaneously creating a platform from which the new model can operate from effectively.

The Director Water and Sanitation has seconded and tasked the Manager Reticulation to lead this process.

This will in turn result in the Reticulation Branch being without leadership.

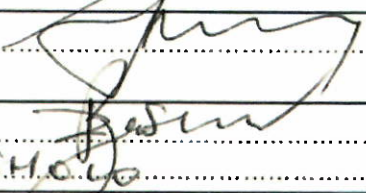
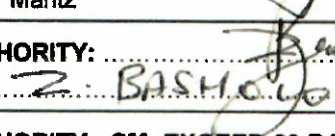
The request is for the approval of acting allowances for Mrs. Amanda Murry, to carry out acting duties of the Manager Reticulation during his absence from office.

Were alternative measures to prevent acting considered? Motivate.

N/A

If post is filled, or not budgeted, indicate where acting allowance will be funded from.

Acting to be funded from cost centre 20040065 / GL401840

LINE MANAGER: 	DATE: <i>PLEASE NOTE 12/6/19</i> <i>REPORT APPROVAL CM 55630</i>
NAME IN PRINT: P Maritz	
DELEGATED AUTHORITY: 	DATE: <i>14/6/2019.</i>
NAME IN PRINT: <i>Z. BASHOLE</i>	
DELEGATED AUTHORITY: CM EXCEED 60 DAYS) <u>Refer to City Manager report 55630 signed 25/6/2019</u>	DATE:

R2971



CITY OF CAPE TOWN
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STAD KAAPSTAD

Making progress possible. Together.

WATER & WASTE DIRECTORATE
WATER & SANITATION

Michael J Webster
Director: Water & Sanitation

T: 021 400-4843

E: michael.webster@capetown.gov.za

Date: 11 November 2019

MEMORANDUM


TO: EXECUTIVE DIRECTOR: WATER & WASTE
5TH FLOOR PODIUM BLOCK
CIVIC CENTRE

APPOINTMENT AS ACTING DIRECTOR: WATER & SANITATION

Michael Webster, the Director: Water & Sanitation Department has been appointed as the Acting Executive Director from 1 November 2019 to 16 December 2019

Zolile Basholo, Manager: Water Demand Management & Strategy is recommended as the Acting Director: Water & Sanitation Department with **FULL DELEGATED AUTHORITY** for the period indicated above.

Yours faithfully,


Zolile Basholo
Acting Director: Water & Sanitation
Date:

11 NOV 2019


Michael John Webster
Acting Executive Director: Water & Waste
Date: 12 NOV 2019



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WS2019/3523
WATER & WASTE DIRECTORATE
WATER & SANITATION

Michael J Webster
Director: Water & Sanitation

T: 021 400-4843

E: michael.webster@capetown.gov.za

MEMORANDUM

DELEGATE AUTHORITY

TO WHOM IT MAY CONCERN


DATE	11 NOVEMBER 2019
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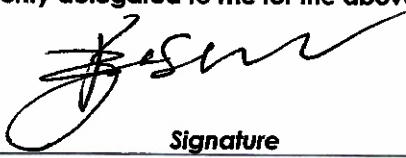
I, MICHAEL WEBSTER hereby delegate my authority to

ZOLILE BASHOLO

MANAGER: WATER DEMAND MANAGEMENT & STRATEGY

during my absence from the office from 1 November 2019 to 16 December 2019

DIRECTOR: WATER & SANITATION	 Signature
Name in Print	MICHAEL WEBSTER
Date	12 NOV 2019

ACTING DIRECTOR: MANAGER: WATER DEMAND MANAGEMENT & STRATEGY	I accept the authority delegated to me for the abovementioned period.  Signature
Name in Print	ZOLILE BASHOLO
Contact Tel No	021 400 2840
Date	11 NOV 2019

All documentation to be signed by the Acting Director must please be forwarded to the Director's office.
This form must be attached to all documentation signed as Acting Director.



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
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OFFICE OF THE CITY MANAGER

Lungelo Mbandazayo
City Manager
CM55356

T: +27 21 400 1331 F: +27 86 535 0979
E: City.Manager@capetown.gov.za

30 May 2019

Michael Webster
Personnel Number: 10077314
Director: Water and Sanitation Services

Dear Mr Webster

AUTHORISATION: ACTING APPOINTMENT

You are hereby appointed as Acting Executive Director: Water and Waste with effect from 01 June 2019 until further notice.

All delegations, responsibilities and accountabilities assigned to that of the Executive Director: Water and Waste post will be applicable during the duration of your acting period.


LUNGELO MBANDAZAYO
CITY MANAGER

I, MICHAEL WEBSTER, hereby accept the terms of this appointment.

Signature: M. Webster Date: 31/5/2019