



water & sanitation

Department:
Water and Sanitation
REPUBLIC OF SOUTH AFRICA

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Reference: 12/2/C212/46

Mr Philip Nice
Ekurhuleni Local Municipality
Private Bag X014
BENONI
1500

E-mail: phillip.nice@ekurhuleni.gov.za

Dear Sir

KLEINFONTEIN DAM: PROGRESS WITH THE IMPLEMENTATION OF RECOMMENDATIONS OF A DAM SAFETY INSPECTION REPORT SUBMITTED IN TERMS OF THE DAM SAFETY REGULATIONS IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

The 2nd dam safety evaluation report for the above dam dated October 2010 has reference.

The Dam Safety Regulations require in Regulation 35(1) (d) that the owner of a dam with a safety risk must regularly report on progress with the recommendations made in the dam safety evaluation report until all recommendations have been addressed.

A compliance monitoring inspection was performed by officials of this office on 04 December 2018 to evaluate your compliance to the dam safety regulations and a copy of the report is attached for your information and further action.


The inspection concluded that very little progress have been made with most of the recommendations and that there are a number of recommendations that must still be addressed.

You are requested to assign a higher priority to the implementation of the outstanding recommendations and to comply with the requirement to regularly report on progress. The DW19E form can be used for the progress reports. Please kindly submit the completed form to the centralised Dam Safety Office, email address at damsafety@dws.gov.za.

Please ensure that funds are made available on your budget to implement the recommended actions. You are requested to respond before 31 January 2019 with a programme of implementation of the recommendations.

You are commended for complying with the dam safety regulations published in Government Notice R. 139 of 24 February 2012 that requires a dam safety evaluation by an Approved Professional Person to be performed every 5 years for a Category II dam. We have received your latest dam safety evaluation report done in November 2018 and it will be subjected to inspection by an official from this office.

Yours faithfully



amokapa

DIRECTOR: DAM SAFETY REGULATION

DATE: 2018 -12- 11

Copies to: Gauteng Provincial Operations, Mr L.L. Nqelenga, NqelengaL@dws.gov.za



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☎ R. Cai
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phillip.nice@ekurhuleni.gov.za

ATTENTION: MR PHILLIP NICE

Dear Sir,

VAN DYK'S DAM: SECOND DAM SAFETY EVALUATION (DSE), UPDATED OPERATION MAINTENANCE MANUAL (OMM) AND EMERGENCY PREPAREDNESS PLAN (EPP) IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 27, 28 AND 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the second DSE, updated OMM and EPP of the above mentioned dam dated May 2018, which was submitted by Ms HAnderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and they are accepted with the comments. From the 2nd DSE report, the condition of the dam has been classified as Condition D (**Significant rehabilitation recommended**). It is noted that the dam is in a general poor maintenance condition and a few critical recommendations were made including the spillway guide walls, erosion control structures and drainage system required rehabilitation works. You are hereby requested to assign higher priority duty to implement it accordingly and ensure the dam's function and structure stability meet the SANCOLD guideline and design criteria for the category dam classified.

It is noted that an additional recommendation made with regards to the dam basin area which require a detail survey to determine the flood lines, thereafter the relevant houses may be inundated during floods can be identified. The EPP should include the inundation map and flood warning or evacuation contact list for the dam basin area, however the updated EPP did not cover this. Could you please rectify the updated EPP to address this recommendation accordingly?

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 5 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully



Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 5 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office, Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
- ii) Ms H Anderson, the APP, andersonhenriette@gmail.com



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ATTENTION: MR PHILLIP NICE

Dear Sir,

ALEXANDER DAM: THIRD DAM SAFETY EVALUATION (DSE), UPDATED OPERATION MAINTENANCE MANUAL (OMM) AND EMERGENCY PREPAREDNESS PLAN (EPP) IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 27, 28 AND 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the third DSE, updated OMM and EPP of the above mentioned dam dated May 2018, which was submitted by Ms H Anderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and they are accepted. From the 3rd DSE report, the condition of the dam has been classified as Condition C (**Significant maintenance recommended**). It is noted that the dam is in a general poor maintenance condition and you are hereby requested to undertake the routine maintenance work according to the instituted OMM and maintain the dam at favourable operational and safe condition.

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 5 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully

A handwritten signature in black ink, appearing to read 'R Cai', with a large, stylized initial 'R'.

Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 5 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office, Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
- ii) Ms H Anderson, the APP, andersonhenriette@gmail.com



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ATTENTION: MR PHILLIP NICE

Dear Sir,

ALBERTON DAM: SECOND DAM SAFETY EVALUATION (DSE), UPDATED OPERATION MAINTENANCE MANUAL (OMM) AND EMERGENCY PREPAREDNESS PLAN (EPP) IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 27, 28 AND 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the second DSE, updated OMM and EPP of the above mentioned dam dated May 2018, which was submitted by Ms H Anderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and they are accepted. From the 4th DSE report, the condition of the dam has been classified as Condition D (**Significant rehabilitation recommended**). It is noted that the dam is in a general poor maintenance condition and some betterment works required to be done. A subsoil toe drain together with a drainage ditch should be installed downstream in order to lower the phreatic level in the embankment and to allow for monitoring of the seepage. You are hereby requested to assign higher priority duty to implement it accordingly and ensure the dam's structure stability meet the SANCOLD guideline and design criteria for the category dam classified.

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 5 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully

A handwritten signature in black ink, appearing to read 'R Cai', with a circular flourish at the beginning.

Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 5 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office,
Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
- ii) Ms H Anderson, the APP, andersonhenriette@gmail.com



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ATTENTION: MR PHILLIP NICE

Dear Sir,

NIGEL DAM: FOURTH DAM SAFETY EVALUATION (DSE), UPDATED OPERATION MAINTENANCE MANNUAL (OMM) AND EMERGENCY PREPAREDNESS PLAN (EPP) IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 27, 28 AND 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the fourth DSE, updated OMM and EPP of the above mentioned dam dated May 2018, which was submitted by Ms H Anderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and they are accepted. From the 4th DSE report, the condition of the dam has been classified as Condition D (**Significant rehabilitation recommended**). It is noted that the dam is at very poor maintenance status and some betterment works required to be done. The area of subsidence with the sinkhole at the left flank of the main southern embankment next to the guide wall must be rehabilitated, low points on the main southern embankment crest must be repaired and the western embankment crest must be rehabilitated while reinstating a section of western embankment as a fuse plug spillway. You are hereby requested to assign higher priority duty to implement it accordingly and ensure the dam's spillway capacity and structure stability meet the SANCOLD guideline and design criteria for the category dam classified.

It is noted that the attached registration information on the dam as Appendix A in your report, it is shown the hazard potential as High which agree to our data base record. But in your report of **5.4 Checking of Registration Information**, Hazard potential is referred to **Significant** and **5.5 Evaluation of The Hazard Potential**, Hazard potential is graded to **Significant**. Could you please clarify this discrepancy accordingly? If you are disagreed the registration information with regard to the classification, please submit the motivation to reclassify the dam accordingly.

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 4 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully



Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 4 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office, Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
- ii) Ms H Anderson, the APP, andersonhenriette@gmail.com



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ATTENTION: MR PHILLIP NICE

Dear Sir,

MIDDLE LAKE DAM: FOURTH DAM SAFETY EVALUATION REPORT IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the fourth dam safety evaluation report of the above mentioned dam dated April 2018, which was submitted by Ms H Anderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and is accepted. From the report, the condition of the dam has been classified as Condition D (**Significant rehabilitation recommended**). It is recommended by the APP that the non-overspill crest of the left flank embankment crest should be reinstated up to the top of the guide walls (i.e. raised by 0.7 m from the lowest crest level) to accommodate the routed SEF with limited overtopping and ensure the dam safe.

You are hereby requested to assign higher priority duty to implement it accordingly and ensure the dam's spillway capacity meet the SANCOLD guideline and design criteria for the category dam classified.

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 4 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully



Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 4 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office, Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
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ATTENTION: MR PHILLIP NICE

Dear Sir,

HOMESTEAD LAKE DAM: FOURTH DAM SAFETY EVALUATION (DSE), UPDATED OPERATION MAINTENANCE MANUAL (OMM) AND EMERGENCY PREPAREDNESS PLAN (EPP) IN TERMS OF CHAPTER 12 OF THE NATIONAL WATER ACT, 1998 (ACT 36 OF 1998), READ WITH REGULATION 27, 28 AND 35 OF THE DAM SAFETY REGULATIONS PROMULGATED IN GOVERNMENT NOTICE R. 139 OF 24 FEBRUARY 2012

Receipt is acknowledged of the fourth DSE, updated OMM and EPP of the above mentioned dam dated May 2018, which was submitted by Ms H Anderson, the Approved Professional Person for the evaluation. The report has been evaluated by the DSO in accordance with the requirement of the Dam Safety Regulations published in Government Notice R.139 of 24 February 2012 and they are accepted. From the 4th DSE report, the condition of the dam has been classified as Condition C (**Significant maintenance recommended**). It is noted that the dam is in a general poor maintained condition. You are hereby requested to undertake the routine maintenance work according to the OMM and maintain the dam safe.

There are some recommendations made in the report; you are requested to report on progress made with the implementation of the recommendations until all recommendations have been implemented. A 12-month reporting interval is suggested.

The next dam safety evaluation should be done in 5 years time from today i.e. by 4 July 2023 but a longer interval can be considered if good progress is made to implement the recommendations of this report. This Department would like to express its appreciation for your co-operation with regard to dam safety matters and wishes you success with the continued operation of the dam.

Yours faithfully

A handwritten signature in black ink, appearing to read 'R Cai', with a large, stylized initial 'R'.

Letter signed by: Mrs R Cai
Designation: Specialist Engineer: Dam Safety Office

Date: 4 July 2018

Copies to:

- i) Ms N Mabe, maben@dwa.gov.za Acting Director: Regulation, Gauteng Regional Office,
Department Of Water and Sanitation, Private Bag X 995, Pretoria 0001
- ii) Ms H Anderson, the APP, andersonhenriette@gmail.com