

Ref: 4516 A
Enquiries: V.I. Prinsloo
Tel : 017 8195346
Fax: 0866090238

Anelle Lötter
Zitholele Consulting
PO Box 6002
HALFWAY HOUSE
1685

Fax 0866746121

Dear Anelle Lötter

KEY COMMENTING AUTHORITY REVIEW OF THE DRAFT SCOPING REPORT FOR A PROPOSED EXTENTION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION (DEA REF: 12/12/20/2300):

Your letter reference 12670: Let-02, date 15 July 2011 refers.

The Mpumalanga Tourism and Parks Agency have the following concerns, the Terrestrial biodiversity of the farm are Highly significant in parts. See attached map from the Mpumalanga Biodiversity Conservation Plan (C-plan).

Highly significant/Important & Necessary areas are those where biodiversity has been heavily compromised and very few options remain to meet biodiversity targets. Natural vegetation cover in these areas should be maintained or restored. Decisions on land-use changes will require a biodiversity specialist study as part of the EIA (Lötter M.C. & Ferrar A.A., 2006).

As a result the following minimum requirements for an activity that may have a detrimental effect on the environment should be met by the applicant:

In order to promote a uniform standard in Environmental Management Plans the Mpumalanga Tourism and Parks Agency requires a minimum set of standards that will be required in the Scoping Report, EIA or EMPR. Minimum requirements are set for all applications. It is the responsibility of the consultant to give reasons why there should be exemption of any of the requirements in this document (e.g. the application is in an area where there already is severe disturbance of the natural biodiversity and that there will be no impacts on the specific area of environmental concern if the requirements are not met).

If impacts are major, they must be considered in conjunction with existing impacts of other projects and be regarded as a key concern. (EIA Guideline document).

Present and potential future cumulative and synergistic effects should all be taken into account (Aide Memoire).

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VEGETATION

1. A map indicating the total area (ha) of disturbance/transformation¹ on the property, including the proposed development.
2. A map indicating vegetation communities and sensitive areas on the property. The map should include the delineation of a 30m buffer zone around any sensitive areas.
3. A map indicating all surrounding land use on adjacent properties.
4. A list of threatened plants species (Red Data Listed) that may potentially occur in the area should be submitted.
5. A floristic survey should be conducted during the growing season with at least two visits undertaken (\pm November and \pm February). Visits during other seasons will be determined by the flowering and fruiting times of species that do not occur during the summer season.
6. The MTPA should be supplied with a list of all plant taxa encountered during the surveys. The following should be investigated: threatened species (Red Data Listed²), important medicinal species, protected species (Mpumalanga Conservation Act, 1989) as well as endemic taxa.
7. Plants that have been surveyed and which may be of conservation importance should be identified down to species level.
8. The MTPA should be supplied with a detailed list of all threatened species, including their locality information as well as details regarding date, GPS location and spatial resolution.
9. A list of threatened species that could potentially occur but were not found during site visits should be provided separately. In respect of each such species an opinion on the likelihood of that species occurring on the site and the reason for that opinion should be provided.
10. A list of alien plant species occurring on the property should be provided.
11. The invasion extent of category 1 & 2 plants (CARA: Act 43 of 1983, Regulation 15) should be investigated.
12. Any existing or planned eradication programs of alien vegetation should be indicated in the report.
13. Relocation plans of plants of conservation importance should be included and this relocation should be done by specialists that have expertise in the area of environmental concern (EIA Guideline Document).

¹ Transformation: any land use that results in a loss of biodiversity e.g. buildings, old lands, roads, dams etc. and excluding grazing or burning pressures.

² The MTPA is currently reassessing the threatened plant species of Mpumalanga and a preliminary list is available on request.

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ANIMALS

Mammals

1. The Mpumalanga Biobase Report should be consulted for obtaining background on the conservation value of land and areas of sensitivity within the Mpumalanga Province. This report is obtainable from the Mpumalanga Tourism and Parks Agency (MTPA).
2. A list of all potential species should be submitted. The following should be highlighted for threatened (Red Data) species.
 - i. International Red Data status (Latest version of IUCN Red Data List)
 - ii. National Red Data status (Latest version)
 - iii. Endemic status of each species
 - iv. Protection status of each species (Mpumalanga Nature Conservation Act 10 of 1998)
3. A full survey to determine species richness should be carried out. The time of year to conduct surveys should depend on the activity pattern of the species. The survey area should not be restricted to the proposed site of development, but should include all habitat types over the entire property as well as adjacent areas. These surveys should be done by specialists with expertise in the area of environmental concern (EIA Guideline document).
4. A list of all species recorded during the survey should be supplied to the MTPA. Species data (GPS point locality, species name and date) should be forwarded to the MTPA.
5. Where total destruction is going to take place:
 - i. Specified faunal species must be captured and relocated to suitable habitat in the area.
 - ii. The operations must be handled by specialists with expertise in the area of environmental concern (EIA Guideline document).
 - iii. Species data (GPS point locality, species name and date) must be forwarded to the MTPA.
6. Maps indicating
 - i. Areas of sensitivity
 - ii. Areas already disturbed/transformed³ and size (ha)
 - iii. Proposed development and size
 - iv. Land-use on surrounding properties.
 - v. Location of important species as well as roosting and hibernation sites e.g. caves of ecological importance, in relation to the proposed development.
7. Recommendations on buffer zones will only be made once comprehensive species lists have been received and reviewed in the EMPR/Scoping Reports.
8. A list of threatened species that can potentially occur, but were not found during site visits or surveys should be provided. In respect of each such species an opinion on the likelihood of that species, occurring on the site and the reason for that opinion should be provided.

³ Transformation: any land use that results in a loss of biodiversity e.g. buildings, old lands, roads, dams etc. and excluding grazing or burning pressures.

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9. A list of exotic/introduced vertebrate species occurring on the property should be provided.
10. An ethically accepted plan for the eradication or removal of any exotic/introduced species posing a threat to indigenous species should be included in the report.
11. Any existing and/or planned actions to prevent free movement/roaming of domestic animals such as dogs, cats, goats and pigs should be provided.

Birds

1. The Mpumalanga Biobase Report should be consulted for obtaining background on the conservation value of land and areas of sensitivity within the Mpumalanga Province. This report is obtainable from the Mpumalanga Tourism and Parks Agency (MTPA).
2. A list of all potential species should be submitted. The following should be highlighted for threatened (Red Data) species.
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4. A list of all species recorded during the survey should be supplied to the MTPA. Species data (GPS point locality, species name and date) should be forwarded to the MTPA.
5. Indicate in the report whether the proposed site falls within an Important Birding Area (IBA). Literature regarding the Important Bird Areas of Southern Africa (Barnes, 1998) is available from Bird Life South Africa.
6. Maps indicating
 - i. Areas of sensitivity Areas already disturbed/transformed⁴ and size (ha)
 - ii. Proposed development and size
 - iii. Land-use on surrounding properties.
 - iv. Location of important species as well as roosting and hibernation sites e.g. caves of ecological importance, in relation to the proposed development.
7. Recommendations on buffer zones will only be made once comprehensive species lists have been received and reviewed in the EMPR/Scoping Reports.

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9. A list of exotic/introduced vertebrate species occurring on the property should be provided.
10. An ethically accepted plan for the eradication or removal of any exotic/introduced species posing a threat to indigenous species should be included in the report.
11. Any existing and/or planned actions to prevent free movement/roaming of domestic animals such as dogs, cats and exotic/introduced bird species should be provided.

Invertebrates

Evaluation and monitoring of invertebrate biodiversity should be included and should contain information on groups including ants, ground living beetles, (Tenebrionidae and Carabidae) termites, leafhoppers, spiders and scorpions.

WETLANDS

With reference to the meeting held in this regard on 03/02/2004 the following is important:

1. A wetland specialist should assess the condition of the wetland.
2. A thorough integrity study should be done on wetlands and the following must be indicated:
 - i. Detailed map of delineated wetlands on the property as well as upstream and downstream thereof.
 - ii. Detailed map of all the wetland types, indicating regionally scarce wetland habitat type/s if any.
 - iii. Indicate the size of the wetland.
 - iv. Indicate the different hydrological habitats (percentage) i.e. permanent, seasonal and/or temporary wetland areas.
 - v. Indicate the roughness of the wetland surface (according to Manning's roughness coefficient)
 - vi. Indicate which drivers support the existence of the wetland.
 - vii. Indicate and map the soil forms on the property highlighting hydric soils.
 - viii. Indicate the erodability of the soil (K-value)
 - ix. Indicate problem areas in the wetland (e.g. eroded areas, drains, roads, power lines, alien invasive plants etc.) giving the percentage and level of impact thereof on the wetland.
 - x. Indicate terrain unit/s on which the wetland occur.
 - xi. State the landform setting/s which best describe the wetland
 - xii. Give information regarding the downstream situation (e.g. number of people dependant on the water, size of floodable property downstream)
3. Identify and describe the functions provided by the wetland.
 - i. Habitat functions (biodiversity, grazing, nesting sites, etc.).
 - ii. Water quality functions (water purification etc).
 - iii. Hydrologic functions (flood attenuation, water supply, etc).
4. Catchment information.
 - i. Surface area of the wetland catchment.

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- ii. Percentage of the wetland catchment occupied by the wetland itself.
 - iii. Cumulative loss of wetlands in the catchment.
 - iv. Mean annual runoff generated by the catchment.
 - v. Land cover in the surrounding catchment and the approximate percentage area under each.
 - vi. Sediment input into the wetland.
 - vii. Nutrient/toxicant input into the wetland.
5. Indicate the direct benefits derived by local communities from the wetland (e.g. is the wetland culturally important and why?)
6. Describe the biodiversity of the wetland.
- i. Vegetation surveys.
 - ii. Invertebrate surveys
 - iii. Bird surveys during different seasons of the year (indicate wetland dependant birds and especially the importance of the wetland for migratory, nomadic and breeding birds).
 - iv. Mammal survey (Large and small mammals).
 - v. Fish survey.
 - vi. Amphibian survey (must be done shortly after rain)
 - vii. Identify unique communities (e.g. an unusually high number of marsh owls, although common, will be unique).
7. Indicate the availability of alternative sites with less important habitat for the proposed development

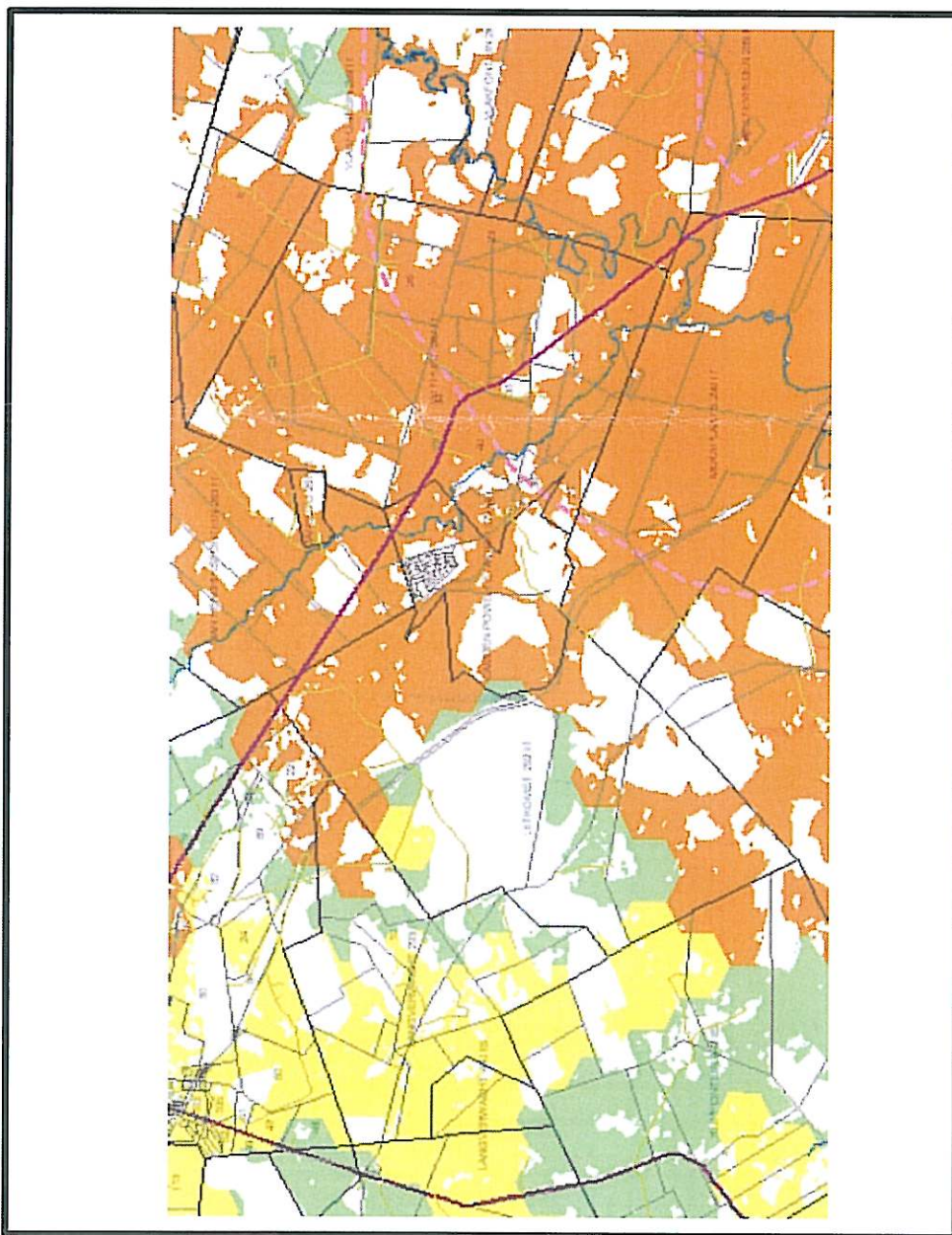
Kind regards



Dr N Motete
Acting Chief Executive Officer

Date: 31 AUG 2011

Map Title



○ Towns (TOWN)

Roads (all) (FEAT_TYPE)

ARTERIAL ROUTE

MAIN ROAD

NATIONAL FREEWAY

NATIONAL ROUTE

ON-OFF RAMP

OTHER ACCESS

SECONDARY ROAD

STREET

UNDER CONSTRUCTION

Rivers (All)

Farms (FARMNAME)

Farm_portions (SUB_NO)

Terrestrial Ecological corridors

terrestrial biodiversity assessment (ASSESSMEI)

1 - Protected

2 - Irreplaceable

3 - Highly Significant

4 - Important & Necessary

5 - Least Concern

6 - No Natural Habitat Remaining





Ref: LUA 13/252
Unit: LUA/SS
Enquiries: F.N. Krige
Tel/ Fax: 013 2540279
E-Mail: frans@mtpa.co.za

Attention: Ms. Nicolene Venter

Zitholele Consulting
P.O.Box 6002
Halfway House
1685

Fax: 086-676-9950
E-mail: mail@zitholele.co.za

Dear Ms. Venter

SUBJECT: MTPA COMMENTS ON THE DRAFT ENVIRONMENTAL IMPACT REPORT FOR A PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION, NEAR ERMELO, MPUMALANGA.

With reference to your correspondence reference: 12670: Let-02 and DEA Ref: 12/12/20/2300 of date 20 March 2013 herewith our comments:

MTPA has no objection to the proposed development or to the sensitivity of the site. The preferred site 1 is supported for the new ash disposal facility and a proper liner with a lifespan longer than 30 years is recommended.

Furthermore we thank you for the professional reporting plans.

Kind Regards

A handwritten signature in black ink, appearing to read "J. Eksteen", is written over a horizontal dotted line.

.....
MR. J. EKSTEEN
ACTING: SENIOR MANAGER SS
DATE: 12/04/2013

Confidentiality Notice: This internal memo contains information which may be legally privileged. This information is intended for the sole purpose of the addressee named above. Any copying, disclosure or action taken on reliance of the memo information is strictly prohibited.

Patiswa Mnqokoyi

From: Mandla Ndlovu [mandla.izinyosi@gmail.com]
Sent: 25 April 2013 04:39 PM
To: Jan Dirk Brak
Cc: Warren Kok; Nicolene Venter
Subject: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

Hi,

Further comments:

Why you don't employ other measures to reduce ash waste like to use it to make other products/material,i.e Bricks, Charcoal,etc

regards

On Wednesday, April 24, 2013, Jan Dirk Brak <Janb@zitholele.co.za> wrote:

> Good evening Mandla,

>

>

>

> Thank you for the comment. I will put it into the CRR that will be attached to the final document. I will also ensure that you get a copy of the final CRR.

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>

>

> Good evening.

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>

> Kind Regards,

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>

> Jan-Dirk Brak [BSc. (Geography)]

>

> Environmental Practitioner

>

> Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA

>

> T: +27 11 207 2060 D: +27 11 088 8403 F: +27 86 676 9950 C: +27 82 806 7217

>

> E: janb@zitholele.co.za W: www.zitholele.co.za

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>

> From: Mandla Ndlovu [mailto:mandla.izinyosi@gmail.com]

> Sent: 24 April 2013 05:20 PM

> To: Jan Dirk Brak

> Cc: Warren Kok; Nicolene Venter

> Subject: Re: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station

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>

> Hi,

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> My comments are as follows:

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> I'm not supporting the extension ash disposal facilities at Site 2 & 3 as proposed in your concept map because they are too close to my farm. I'm doing farming, they are people staying on the farm and I'm busy building dwelling apartments and accommodation facilities.

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> Regards

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> MB Ndlovu

>

> Tel: 083 564 5192

>

> Owner of Portion 29 (a Portion of Portion3) of the Farm WITPUNT 267 - Just behind and bordering Camden Power Stationh

>

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>

> On Tue, Apr 16, 2013 at 1:11 PM, Jan Dirk Brak <Janb@zitholele.co.za> wrote:

>

> Good day Mandla,

>

>

>

> I would like to remind you that we have a Public Meeting Tomorrow at Indawo Game Reserve to present the Draft Environmental Impact Report to the public.

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> There will be two meetings:

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> · 10:00-12:00

>

> · 18:00-20:00

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> The document is rather big, so I will attach a link to our website where the document is stored as well. If you have any further questions and comments, you are welcome to attend the meeting tomorrow. I will also

have CD's available with copies of the document on it.

>

>

>

> <http://www.zitholele.co.za/camden-power-station>

>

>

Jan Dirk Brak

From Patiswa Mnqokoyi
Sent 04 May 2013 11:20 AM
To Jan Dirk Brak
Cc Warren Kok; Nicolene Venter
Subject FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day,

Please see below.

Kind regards,

Patiswa Mnqokoyi (Dept. Public Relations and Marketing)
Divisional Administrator
Block 7, Thandanani Park, Matukalo, Halfway Gardens, Midrand, 1685, RS
T: +27 11 207 2060 **F:** +27 11 207 2074 **E:** +27 86 676 950 **C:** +27 7 27 84 8653
E: patiswam@zitholele.co.za **W:** www.zitholele.co.za



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From Phiwo B Nkosi (<mailto:PhiwoBN@gsibande.gov.za>)
Sent 04 May 2013 11:20 AM
To Patiswa Mnqokoyi
Subject FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day

The GS M hereby confirms the minutes to be an accurate representation of the deliberations of the meeting.

From Wisdom Mpofu
Sent Monday 04 May 2013 11:20 AM
To Phiwo B Nkosi
Subject FW: Camden Power Station Ash Expansion Facility Minutes of public meetings

Action Pliz Phiwo

W

From Patiswa Mnqokoyi (<mailto:Patiswam@zitholele.co.za>)
Sent 04 May 2013 11:20 AM
To Florence Rambuda
Subject Camden Power Station Ash Expansion Facility Minutes of public meetings

Good day Dear Stakeholder,

Please find attached the minutes from the two public meetings hosted by Zitholele Consulting on Wednesday 17 April 2013 at Indawo Lodge, Ermelo.

The meetings objective was to present the Draft Environmental Impact Report to the public.



□

The public has the opportunity to review the minutes, and to verify if the comments made were captured correctly.

Please direct your comments to the public participation office or myself at your earliest convenience.

The Zitholele team is currently busy compiling the Final Environmental Impact Report (FEIR). The availability of the FEIR will be announced to the public in due course.

Kind Regards,

| | |
|---|--|
| <p>Jan-Dirk Brak [BSc. (Geography)] <i>Environmental Practitioner</i> Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA T: +27 11 207 2060 D: +27 11 088 8403 F: +27 86 676 9950 C: +27 82 806 7217 E: janb@zitholele.co.za W: www.zitholele.co.za</p> <p> Please consider the environment before printing this e-mail!</p> |  |
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|---|---|
| <p>REGISTRATION AND COMMENT SHEET</p> <p>Environmental Impact Assessment and Waste Management License Application for a proposed extension of ash disposal facilities at Camden Power Station</p> <p>Inserted in the Background Information Document May 2011</p> | <p>EIA Public Participation Office</p> <p>Anelle Lötter/Florence Rambuda Zitholele Consulting (Pty) Ltd P O Box 6002, Halfway House, 1685 Tel: (011) 207 2076/2075 Fax: 086-676-9950 Email: alotter@zitholele.co.za or florencer@zitholele.co.za</p> |
|---|---|

Please complete by 17 June 2011 and return to the EIA Public Participation Office (as above)

| | | | | | |
|---|---------------------------------|-------------|-----------------------|---------------|----|
| TITLE | MR | FIRST NAME | JAPHYA BORCIANI | | |
| INITIALS | J.B. | SURNAME | MALUNGISA | | |
| ORGANISATION | DEPT OF LABOUR | EMAIL | japhyam@labour.gov.za | | |
| POSTAL ADDRESS | PRIVATE BANGA 7263 WITBANK 1035 | | | | |
| TEL NO | 0829071158 | POSTAL CODE | 1035 | | |
| DATE | 07/06/2011 | FAX NO | 0865277146 | | |
| Please formally register me as an interested and affected party (I&AP) so that I may receive further information and notifications during the Environmental Impact Assessment process | | | | YES | NO |
| I would like my notifications by | | | | Letter (mail) | |
| | | | | Email | |
| | | | | Fax | |
| | | | | Telephone | |
| | | | | Paper copies | |
| I would like to receive documents for comment as follows | | | | By email | |
| | | | | On CD | |
| | | | | | |
| In terms of Regulations GNR 543 - 546 – Government Gazette No. 33306 of 18 June 2010 (EIA process regulations) I disclose below any direct business, financial, personal or other interest that I may have in the approval or refusal of the application: | | | | | |
| | | | | | |
| | | | | | |

COMMENTS (please use separate sheets if you wish)

Any comments you may have at this stage:

Currently NO comment.

Please ask the following of my colleagues/friends/neighbours to register for this project:

THANK YOU FOR YOUR CONTRIBUTION

Patiswa Mnqokoyi

From: Warren Kok
Sent: 26 April 2013 07:29 AM
To: Mandla Ndlovu; Jan Dirk Brak
Cc: Nicolene Venter
Subject: RE: Document for Proposed Extension of Ash Disposal Facilities at Camden Power Station


Dear Mr Ndlovu,

Many thanks for your comments, which will be appropriately registered in the Comments Response Report and reported as part of the official record of the project. In response to your enquiry "Why you don't employ other measures to reduce ash waste like to use it to make other products/material,i.e Bricks, Charcoal,etc" I can respond by indicating that Eskom do have initiatives ongoing for the investigation and implementation of projects for reuse of the ash generated at their power stations. Unfortunately the volume of ash is just too high to dispose of all of it in this manner. Currently Eskom manage to re-purpose about 5% of the ash generated at power stations across South Africa. Thus ash disposal / storage facilities will are still required.

I trust this answers your question, but please feel free to contact us again should you have any further enquiries.

Kind Regards,

Warren Kok [B.A. (Hons) (Geography and Environmental Management), EAP]
Divisional Leader: Environmental Management Services
Block B, Thandanani Park, Matuka Close, Halfway Gardens, Midrand, 1685, RSA
T: +27 11 207 2060 **D:** +27 11 207 2073 **F:** +27 86 676 9950 **C:** +27 71 250 5371
E: warrenk@zitholele.co.za **W:** www.zitholele.co.za

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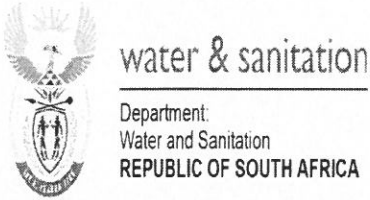
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>
> . 18:00-20:00
>
>
>
> The document is rather big, so I will attach a link to our website where the document is stored as well. If
> you have any further questions and comments, you are welcome to attend the meeting tomorrow. I will also
> have CD's available with copies of the document on it.
>
>
>
> <http://www.zitholele.co.za/camden-power-station>
>
>
>



K. Legge/K Mnisi/C Fricker
Tel: 012 336 8677/8944/6656
Ref: 16/2/7/C111/B14/Y1/1

ACTING CHIEF DIRECTOR: COMPLIANCE MONITORING

For attention Director: Resource Protection and Waste, and Ms W Moolman

NEMWA WASTE LICENCE: ENGINEERING SERVICES COMMENT: CAMDEN ASH DISPOSAL FACILITY

1. Presentation

On Thursday 13 February 2014 at 11h30 the project background and detail were presented by Zitholele Consulting under the auspices of Ms W Moolman.

2. Documentation

The following reports, drawings and correspondence were presented for consideration:
a) Three drawings Site 1 Ash Dam Layout and Cross Sections 12670-02-001; Site 1 Solution and Storm water Trenches Sections and Details 12670-02-002; Site 1 Silt Trap Plan, Sections and Details 12670-02-003.

b) Geohydrological Impact Assessment: Proposed Ash Dam Extension at Eskom Camden Power Station having reference RVN 631.1/1304 dated June 2012.

c) Conceptual Design Report for the Extension of the Ash Dam at Camden Power Station having reference 12670-Eng-01 dated 12 February 2014.

d) Copy of the Zitholele presentation for the New Wet Ash Disposal Facility for Camden Power Station.

e) Minutes of the meeting held on 13 February 2014 forwarded by Zitholele Consulting.

3. Consideration

The applicant is proposing a new ash disposal facility as the existing one is nearing end of service life in 2017. The service life of the proposed new ash disposal facility is 17 years with a total airspace volume requirement of 25 million cubic metres. The new footprint area is 121 Ha, which will be lined in three phases.

The site is underlain by shale at 2 to 7m below ground level (bgl) and an unweathered

dolerite sill 7 to 15m bgl. The site is within 500m from a wetland situated north-west of the facility.

The applicant is proposing and applying for a "co-disposal" facility, wet ashing system of ash mixed with brine to form a slurry which is reportedly classified as a Type 1 waste due to high concentration of arsenic, barium, copper, lead and zinc. A class C barrier is however, proposed in accordance with Regulation 636 Norms and Standards. The proposed barrier system for the ash disposal facility from bottom up is as follows: 160 diameter geopipe encased in 19mm stone with 6mm stones wrapped in a separation geotextile subsurface drain; 100mm filter sand cushion; 6 to 8% bentonite blended with silty sand (alternative to clay); 1,5mm DT HDPE geomembrane; an A10 protection geotextile, followed by ash.

Eight new 350mm diameter steel pipe slurry lines which will be above ground on concrete plinths are proposed, to deliver the ash.


4. Recommendation

It is recommended that the design be refined to address return water management details; compliance with Regulation 636 clause 3(2) and filter capability; and the long term barrier performance is quantified. The current concept is not adequate for acceptance, especially in the absence of waste classification.



KK Mhisi
Candidate Scientist: Engineering Geology

Date: 13/10/2014



CHIEF DIRECTOR: ENGINEERING SERVICES

Letter signed by KR Legge

Chief Engineer: Integrated Environmental Engineering

Date 2014/10/13

Attachment: List of Acronyms



Final Comment

In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Eskom Holdings SOC Limited
92 Hans Van Rensburg Street
Polokwane
0699

PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION.

Gaigher, S. (December 2011). First Phase Heritage Impact Assessment for the Proposed Extension to the Camden Ash Disposal Facilities

The above heritage report refers;

Eskom proposes to extend existing ash disposal facilities and associated infrastructure at the Camden Power Station situated approximately 12km from Ermelo. This extension will likely cover 100ha, with an additional 20ha of ash water return dams, channels, roads and fences.

All three proposed alternatives were assessed in the HIA. The submitted report indicates that only Alternative 2 has heritage concerns as a small graveyard was identified in the footprint of this alternative. No other heritage concerns were identified in the submitted report.

However, SAHRA has a number of concerns regarding the content of the submitted HIA. The report only contained two photographs, neither of which are clear. No GPS track paths were provided. In the introduction to the report, Section 27(1) of the NHRA (Act 25 of 1999) is quoted as the relevant piece of legislation for this submission. This is incorrect. Applications of this nature are submitted in terms of Section 38(8) of the NHRA (Act 25 of 1999). As such, the submitted report does not satisfy the Minimum Standards for Archaeological Impact Assessments approved by SAHRA in 2008.

Final Comment

While the submitted report does not satisfy SAHRA's Minimum Standards for Archaeological Impact Assessments, the proposed development is unlikely to change the character of the proposed site alternatives and, as long as the conditions below are met, SAHRA has no objection to the proposed development. It should be noted, however, that reports completed after September 2012 that do not satisfy SAHRA's Minimum Standards will be rejected.

SAHRA supports Alternative 1 and Alternative 3 of the proposed development based on the information contained in the submitted report. SAHRA does not support Alternative 2 due to the impact development in this area will have on the identified graveyard.

The graveyard identified in the report as CAD001 must remain *in situ* and may not be impacted by the proposed development. A conservation management plan must be drafted to co-ordinate the ongoing



Camden Ash Disposal Facilities Project

Our Ref: 9/2/222/0002

Enquiries: Jenna Lavin
Tel: 021 462 4502
Email: jlavin@sahra.org.za
CaseID: 1674

Date: Monday March 18, 2013

Page No: 2



management and conservation of the graveyard at CAD001.

Should it not be possible to adhere to the above conditions, the applicant must consult with SAHRA regarding the reasons for non-compliance. In this instance, on SAHRA's advice, other mitigation strategies may have to be adopted which will require following a process for archaeological investigation in terms of Section 35 and for exhumation in terms of Section 36 of the NHRA (Act 25 of 1999).

Should any evidence of archaeological sites or remains (e.g., remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal/ash concentrations), unmarked human burials, fossils or other categories of heritage resources are found during the proposed activities, SAHRA APM Unit (Jenna Lavin/Colette Scheermeyer 021 462 4502) must be alerted immediately, and a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contacted as soon as possible to inspect the findings. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance a Phase 2 rescue operation might be necessary.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

Jenna Lavin
Heritage Officer
South African Heritage Resources Agency

Colette Scheermeyer
SAHRA Head Archaeologist
South African Heritage Resources Agency

ADMIN:
(DEA, Ref: 12/12/20/2300)

Terms & Conditions:



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000
* Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: <http://www.sahra.org.za>

Camden Ash Disposal Facilities Project

Our Ref: 9/2/222/0002

Enquiries: Jenna Lavin
Tel: 021 462 4502
Email: jlavin@sahra.org.za
CaseID: 1674

Date: Monday March 18, 2013

Page No: 3



-
1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
 2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
 3. SAHRA reserves the right to request additional information as required.



The South African Heritage Resources Agency

Street Address: 111 Harrington Street, Cape Town 8000 * Postal Address: PO Box 4637, Cape Town 8000
* Tel: +27 21 462 4502 * Fax: +27 21 462 4509 * Web: <http://www.sahra.org.za>

Leoni Lubbe

Subject: FW: RE: Revised DEIR Comment Period Commencing - Proposed Expansion of the ADF at Camden Power Station

From: Ackerman Pieter [<mailto:AckermanP@dwa.gov.za>]
Sent: 30 September 2014 07:51 AM
To: Leoni Lubbe
Subject: RE:

Hi
One of the alternatives is to address the exclusion of watercourses.
Regards

Pieter Ackerman (PrLArch)
Chief Landscape Architect
Department of Water and Sanitation (DWS), South Africa
Sub Directorate Instream Water Use
Tel: 012 336 8217
Cell: 082 807 3512
Fax: 012 336 6608

From: Leoni Lubbe [<mailto:Leonil@zitholele.co.za>]
Sent: 29 September 2014 03:55 PM
To: Ackerman Pieter
Subject:

INTEGRATED ENVIRONMENTAL AUTHORISATION (ENVIRONMENTAL IMPACT ASSESSMENT AND WASTE MANAGEMENT LICENSE APPLICATION): PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

- **Revised Draft Environmental Impact Report (DEIR) available for review and comment**
- **DEA Ref. No.: 12/12/20/2300 and NEAS Ref. No.: DEA/DIA/0000399/2011**

Dear Stakeholder

Kindly find attached letter which serves to inform you that the Revised Draft Environmental Impact Report (DEIR) is available for public review and comment from **Monday, 29 September 2014** to **Friday, 07 November 2014**.

The Revised DEIR can be downloaded from Zitholele's website: <http://www.zitholele.co.za/camden-power-station>.

Kind regards

Documents attached:

- Revised DEIR Notification Letter
- Revised DEIR Comment Form

GEÏNTEGREERDE OMGEWINGSMAGTIGING (OMGEWINGSIMPAKEVALUERING EN AANSOEK OM AFVALBESTUURLISENSIE): VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE BY DIE CAMDEN KRAGSTASIE, MPUMALANGAPROVINSIE

- **Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) beskikbaar vir insae en kommentaar**
- **DO Verw. No: 12/12/20/2300 en NEAS Verw. No.: DEA/EIA/0000399/2011**

Geagte Belanghebbende

Vind asseblief aangehegde brief wat dien om U in te lig dat die Hersiende Konsep Omgewingsimpakevalueringsverslag (KOIV) beskikbaar is vir openbare insae en kommentaar vanaf **Maandag, 29 September 2014** tot **Vrydag, 07 November 2014**.

Die Hersiende KOIV kan ook van Zitholele se webwerf (<http://www.zitholele.co.za/camden-power-station>) afgelaai word.

Vriendelike groete

Die volgende dokumente sal binnekort in afrikaans beskikbaar wees en uitgestuur word aan u:

- Hersiende KOIV Kennisgewingsbrief
- Hersiende KOIV Kommentaarvorm

Nicolene Venter [Cert. Public Relations]

Senior Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

T: +27 11 207 2060 **D:** +27 11 207 2077 **F:** +27 86 676 9950

C: +27 83 377 9112

E: nicolenev@zitholele.co.za **W:** www.zitholele.co.za

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INCLUDE LETTER ANNOUNCING FEIR TO COMMENTING AUTHORITIES



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Fedsure Building · 315 Pretorius Street · PRETORIA
Tel (+ 27 12) 310 3911 · Fax (+ 2712) 322 2682

DEA Reference: 12/12/20/2300

Enquiries: Vincenia Phukubye

Tel: 012 395 1780 **Fax:** 012 320 7539 **E-mail:** VPhukubye@environment.gov.za

Mr Warren Kok
Zitholele Consulting
PO Box 6002
HALFWAY HOUSE
1685

Fax: 086 674 6121

Tel: 011 207 2060

PER FACSIMILE / MAIL

Dear Mr Kok

ACKNOWLEDGEMENT OF RECEIPT OF DRAFT ENVIRONMENTAL IMPACT ASSESSMENT REPORT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION, MPUMALANGA PROVINCE

The Department confirms having received the draft Environmental Impact Assessment Report dated 20 March 2013 for the above-mentioned project on 22 March 2013.

Please note that the Department will start reviewing once the final Environmental Impact Assessment Report is received.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Mark Gordon
Chief Director: Integrated Environmental Authorisations
Department of Environmental Affairs
Letter signed by: Mr Herman Alberts
Designation: Environmental Officer: Integrated Environmental Authorisations
Date: 08/04/2013



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Private Bag X 447 · PRETORIA · 0001 · Environmental House · 473 Steve Biko Road · PRETORIA
Tel (+ 27 12) 399 9972

DEA Reference: 12/12/20/2300

Enquiries: Lunga Dlova

Tel: 012 399 8913 **E-mail:** LDlova@environment.gov.za

Ms Sharon Meyer-Douglas
Zitholele Consulting (Pty) Ltd
PO Box 6002
HALFWAY HOUSE
1685

Fax: 086 674 6121
Tel: 011 207 2060
Email: mail@zitholele.co.za

PER FACSIMILE / MAIL

Dear Ms Meyer-Douglas

ACKNOWLEDGEMENT OF RECEIPT OF THE REVISED DRAFT BASIC ASSESSMENT REPORT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE

The Department confirms having received the revised draft Basic Assessment Report date 26 September 2014 for the above-mentioned project on 26 September 2014.

Please note that the Department will start reviewing once the final Basic Assessment Report is received.

You are hereby reminded that the activity may not commence prior to an environmental authorisation being granted by the Department.

Yours sincerely

Mr Ishaam Abader
Deputy Director – General: LACE
Department of Environmental Affairs
Letter signed by: Mr Herman Alberts
Designation: Environmental Officer: Integrated Environmental Authorisations
Date: 09/10/2014

Zitholele Consulting

Reg. No. 2000/000392/07

PO Box 6002 Halfway House 1685, South Africa
Building 1, Maxwell Office Park, Magwa Crescent West
c/o Allandale Road & Maxwell Drive, Waterfall City, Midrand
Tel + (27) 11 207 2060
Fax + (27) 86 674 6121
E-mail : mail@zitholele.co.za



Our Ref : 12670-Let-004

10 October 2014

Camden Power Station

Attention :

Department of Water and Sanitation
Department of Environmental Affairs

To Whom It May Concern

Waste Water Disposal at Camden Power Station

Camden Power Station is currently undertaking an Environmental Impact Assessment (EIA), Waste Management License Application (WMLA) and Water Use License Application (WULA) for the proposed new Ash Disposal Facility (ADF), which is required to accommodate the remaining life of the Power Station up to 2028 with a five year contingency period, therefore up to 2033.

The objective of this letter is to provide feedback on the issue of co-disposal as discussed during the previous engagement with the Department of Water and Sanitation (DWS) engineering division in February 2014.

1 BACKGROUND

The following wastes (as depicted in Figure 1) are produced as part of the ash disposal processes at Camden Power Station:

- Fly ash and coarse ash, from the coal burning operations, which is disposed of at the ADF, through wet ashing processes; and
- Four streams of liquid effluent, being:
 - Cooling Water Blow-down;
 - Effluent from the demineralisation (Demin) Plant ;
 - Return water from the current ADF; and recently
 - Effluent from the Reverse Osmosis (RO) Plant.

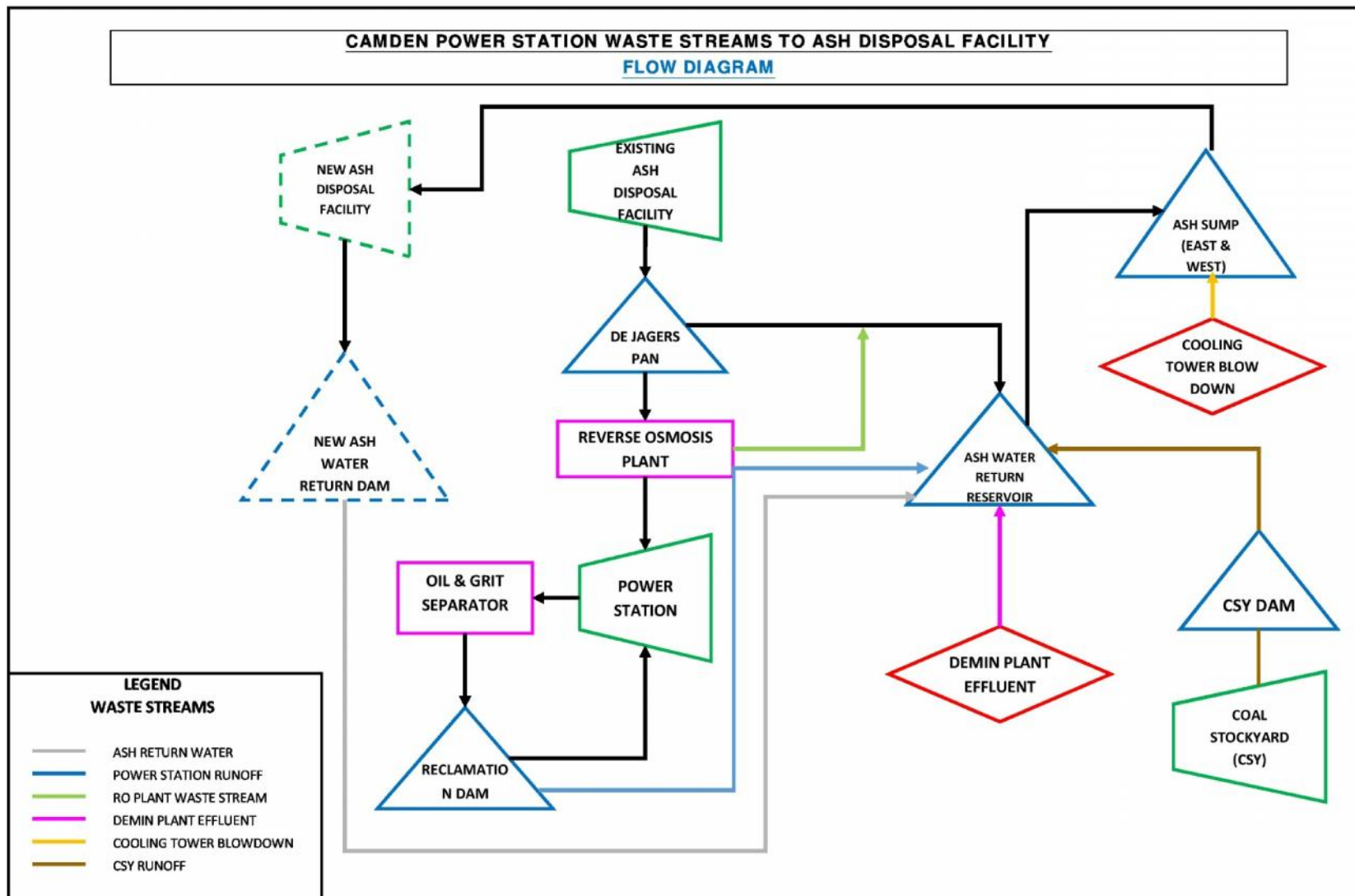


Figure 1: Schematic of waste streams at Camden Power Station. The Figure shows not only the current situation, but also the proposed scenario with the new ADF..

Ash is generated at the Power Station, and is transported as wet slurry via pipelines to the ash disposal facility for disposal. The wet ash, in slurry form, is pumped to the ash disposal facility, where ash water is evaporated, stored or overflows via penstocks. The ash water that overflows drains to the De Jagers Pan. The de Jagers Pan also receives clean water from the catchment. The water from De Jagers Pan is transported to the Ash Water Return Reservoir (AWRR) on site.

Some of the ash water at De Jagers Pan is abstracted and treated at the RO plant, producing clean water and effluent waste stream (concentrated ash water). The clean water from the RO plant is taken to the power station where it is re-used in the cooling water processes. The effluent waste stream (concentrated ash water) from the RO plant is also pumped back to the station ash water high level reservoir (Ash Water Return Reservoir, AWRR) on site. This effluent waste stream and return water from De Jagers Pan is used for ash transportation from boilers and dust hoppers. The effluent from the RO plant therefore forms an integral part of the closed system of ash water used for transportation of ash slurry to the ash disposal facility.

It should be noted that the effluent is originally generated as ash return water from the ADF. Therefore, the effluent sent back to the ADF as an ash carrier medium originates from the same closed system as the ash return water coming off the ADF.

2 WASTE CLASSIFICATION

Waste classification studies for disposal with ash were undertaken on the waste streams, which classified as Type 3 according to the DEA 2013 “National Norms and Standards for the Assessment of Waste for Landfill Disposal” (GN 635). The Type 3 wastes are required to be disposed of on a Class C barrier system.

3 UNDERSTANDING OF CO-DISPOSAL

Co-disposal refers to the mixing of liquid and dry wastes or to the mixing of general and hazardous wastes (DWAF, 1998). The waste (effluent) stream produced from the RO plant is in liquid form and is discharged back into the original ash water return lines to the station ash water high level reservoir on site, still in liquid form. This liquid form of this waste stream is also used for ash removal from boilers and dust hoppers and subsequently forms part of the ash water that assists with the transportation of ash slurry to the ash disposal facility.

It should be noted that the effluent is originally generated as ash return water from the ADF. Therefore, the effluent sent back to the ADF as an ash carrier medium originates from the same closed system as the ash return water coming off the ADF.

4 CONSULTATION WITH DWS

A meeting was held with Department of Water and Sanitation (DWS) Engineering Department on 13 February 2014. During this meeting the issue of co-disposal was discussed. Mr Kelvin Legge indicated that no-co disposal should be undertaken because “the brine would destroy the liner”.

Subsequent to the meeting in February 2014 the following transpired:

1. All the waste streams have been classified as Type 3;
2. The effluent from the RO plant was analysed and does not constitute a “brine” as per GN 636 (Norms and Standards for Disposal of Waste to Landfill); and
3. DWS was concerned that the leachate from the ADF will interact with the components of the liner that contained Sodium (Bentonite) and compromise the permeability of the liner. It was later decided to replace the proposed Bentonite Enriched Soils with in-situ material if the permeability was accepted by DWS. If the permeability did not meet acceptable standards, clay will be important for this component of the liner. By doing so, there will be no risk of cation exchange between the leachate and the liner components.

5 CONCLUSION

Taking cognisance of the above, Camden Power Station would like to motivate that the current waste and wastewater management system, in which the waste water from the RO plant is used in ash slurry transportation, be continued for the new ADF project, and in our interpretation does not constitute co-disposal as per GNR 636.

Yours faithfully,



Sharon Meyer-Douglas
ZITHOLELE CONSULTING (PTY) LTD

Leoni Lubbe

From: MTPA [franskriige@telkomsa.net]
Sent: 03 November 2014 09:54 AM
To: Leoni Lubbe
Subject: Re: Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

Hi Leoni, if you follow the correct procedure by sending the hard copies of your projects to our Head office for registration you might receive a response.

Kind Regards

Francois Krige
LUA Scientist
Mpumalanga Tourism and Parks Agency

Tel: (+27) 13 254 0279

Mobile: (+27) 84 2322902

Fax: (+27) 13 254 0279

E-mail: frans@mtpa.co.za
franskriige@telkomsa.net

Postal: P.O.Box 98, Dullstroom, 1110

Website: www.mpumalanga.com Please consider the environment before printing this e-mail

----- Original Message -----

From: [Leoni Lubbe](#)

To: 'Frans Krige'

Sent: Friday, October 31, 2014 2:08 PM

Subject: Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

DEA Ref. No.: 12/12/20/2300 and NEAS Ref. No.: DEA/DIA/0000399/2011

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Soon

Dear Stakeholder

This communication serves to remind you that the review period for the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project ends **Friday, 07 November 2014** (close of business day).

The report (Incl. all Appendices) is still available on the Zitholele's website: <http://www.zitholele.co.za>.

Important note: If you have comments that you would like to make but have not yet submitted, please do so before the close of business, **Friday, 07 November 2014**.

We would like to thank those who have submitted comments on the report.

Kind Regards

GEÏNTEGREERDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAARDGAANDE INFRASTRUKTUUR BY DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE

· Hersiende Konsep Omgewingsimpakevalueringverslag (KOIV) Kommentaar Periode Eindig Binnekort

Geagte Belanghebbende

Hierdie kommunikasie dien om U in te lig dat die Hersiende Konsep Omgewingsimpakevalueringverslag (KOIV) periode vir openbare besigtiging en kommentaar eindig **Vrydag, 07 November 2014** (sluiting van besigheidsdag).

Die verslag en al die aanhangsels is steeds beskikbaar op the Zitholele webwerf: <http://www.zitholele.co.za>.

Belangrike kennisgewing: Indien U enige kommentaar het om te lewer oor die verslag en dit nog nie kon indien nie, doen asseblief so voor die sluiting van die besigheidsdag **Vrydag, 07 November 2014**.

Ons wil graag ons waardering uitspreek teenoor die belanghebbendes wat kommentaar oor die verslag ingedien het.

Vriendelike groete

Nicolene Venter [Cert. Public Relations]

Senior Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

T: +27 11 207 2060 **D:** +27 11 207 2077 **F:** +27 86 676 9950 **C:** +27 83 377 9112

E: nicolenev@zitholele.co.za **W:** www.zitholele.co.za

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:30 PM
To: 'PatriciaMJ@daff.gov.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Ms Nomvuzo Mjadu,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

My phone call today serves as a gentle reminder of the review period on the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project which ends **Friday, 07 November 2014** (close of business day).

Kindly refer to previous communication reminders sent to authorities.

The report (Incl. all Appendices) is still available for your comment on the Zitholele's website:
<http://www.zitholele.co.za>.

Important note: If you have comments that you would like to make but have not yet submitted, please do so before the close of business, **Friday, 07 November 2014**.

Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

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9950 **C:** +27 83 775 3197 **E:** trician@zitholele.co.za **W:** www.zitholele.co.za



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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 03:29 PM
To: 'RamabulanaN'
Cc: 'PatriciaMJ@daff.gov.za'; Nicolene Venter; Tania Oosthuizen; Leoni Lubbe
Subject: RE: PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION
Attachments: 12670: Farms
Importance: High

| Tracking: | Recipient | Delivery | Read |
|-----------|--------------------------|--------------------------------|---------------------------|
| | 'RamabulanaN' | | |
| | 'PatriciaMJ@daff.gov.za' | | |
| | Nicolene Venter | Delivered: 06/11/2014 03:29 PM | |
| | Tania Oosthuizen | Delivered: 06/11/2014 03:29 PM | Read: 06/11/2014 03:33 PM |
| | Leoni Lubbe | Delivered: 06/11/2014 03:29 PM | |

Good day Mr Ramabulana,

Apologies for the delay, but please find attached a map and a table (included in the email) of the project area proposed sites received from the Project Manager on the Camden EIA project.

I hope you will find this helpful with your comments.

Do keep well.

Kind regards,

Tricia Njapha

Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

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9950 **C:** +27 83 775 3197 **E:** trician@zitholele.co.za **W:** www.zitholele.co.za



Please consider the environment before printing this e-mail!



From: RamabulanaN [<mailto:RamabulanaN@daff.gov.za>]

Sent: 06 November 2014 11:04 AM

To: Tricia Njapha

Subject: PROPOSED EXTENSION OF ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION

Our telephone conversation refers

I would like to have farm names for proposed alternative sites 1, 2 and 3 as it will be easy on my side to make comment or inputs.

Kindly regards

Ramabulana Ndwamato

Assistant Director: Water Management
Directorate: Water Use and Irrigation Development



agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

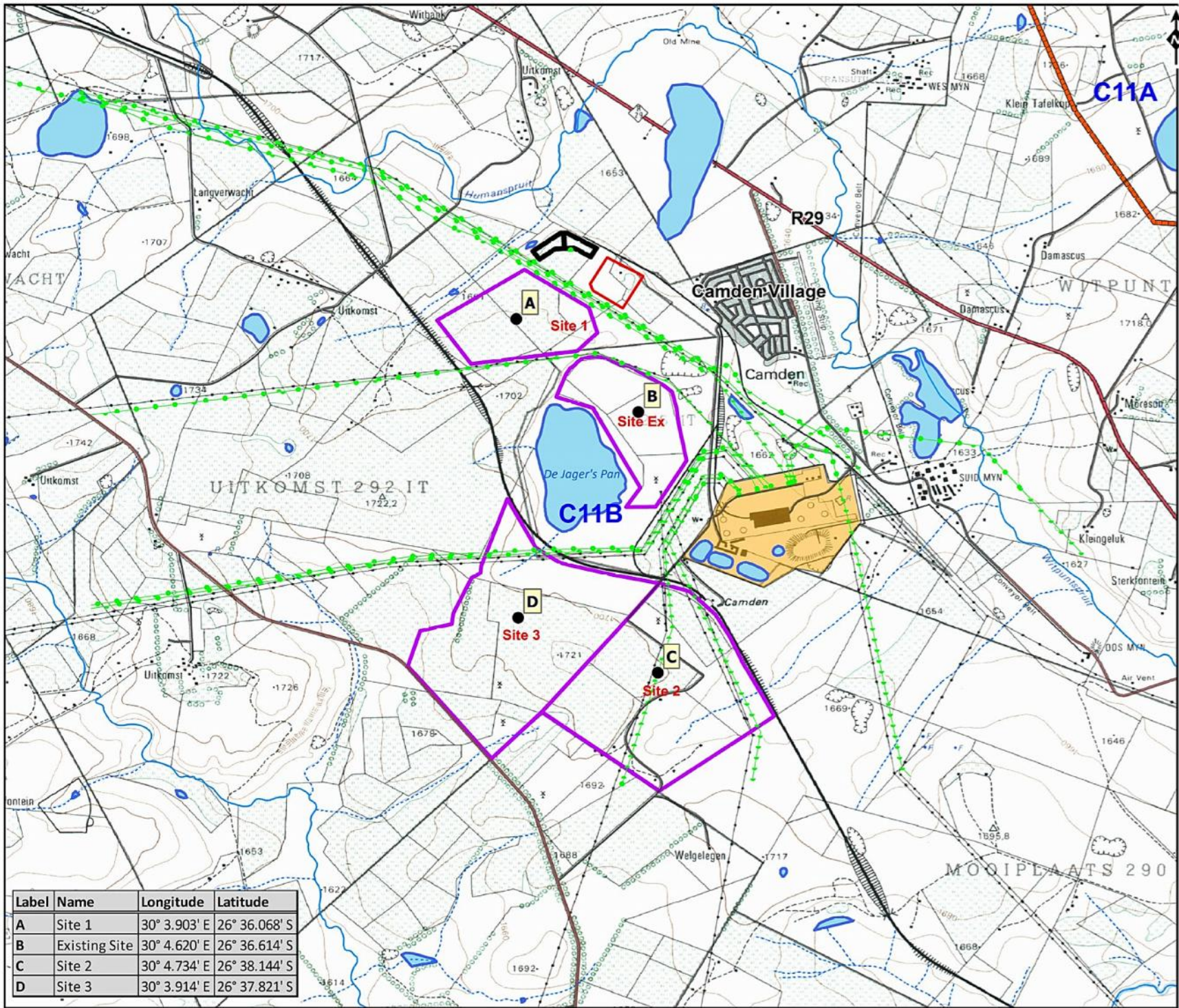
Department of Agriculture, Forestry and Fisheries

Tel : 012 846 8578
Cell : 073 376 2365
Fax : 012 846 8576
Web : www.daff.gov.za
E-mail : RamabulanaN@daff.gov.za

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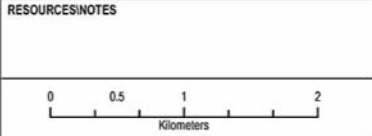
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| Label | Name | Longitude | Latitude |
|-------|---------------|--------------|---------------|
| A | Site 1 | 30° 3.903' E | 26° 36.068' S |
| B | Existing Site | 30° 4.620' E | 26° 36.614' S |
| C | Site 2 | 30° 4.734' E | 26° 38.144' S |
| D | Site 3 | 30° 3.914' E | 26° 37.821' S |



- LEGEND**
- Sites Position
 - Towns
 - National Freeway
 - Main road
 - Secondary road
 - Streets and other access
 - Non Perennial Rivers
 - Perennial Rivers
 - Powerlines
 - Waterbodies
 - Alternatives
 - Coal Stock Yard
 - Dams
 - Camden Power Station
 - Quaternary Catchments



REFERENCE
Coordinate System: GCS WGS 1984

PROJECT CAMDEN ASH DISPOSAL FACILITY EXPANSION PROJECT

TITLE

LOCALITY MAP

| | |
|-------------------|---------------|
| PROJECT No. 12670 | REV 2 |
| SCALE 1:40 000 | A3 |
| GIS | VR 30/09/2014 |
| CHECK | SL 30/09/2014 |
| REVIEW | TO 30/09/2014 |



Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:12 PM
To: 'MatsebaE@dwa.gov.za'
Cc: 'zenas@dwa.gov.za'; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

| Tracking: | Recipient | Delivery |
|------------------|-----------------------|--------------------------------|
| | 'MatsebaE@dwa.gov.za' | |
| | 'zenas@dwa.gov.za' | |
| | Nicolene Venter | Delivered: 06/11/2014 01:12 PM |
| | Leoni Lubbe | Delivered: 06/11/2014 01:12 PM |

Dear Mr Matseba,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

I called your office this morning to connect with you. I managed to speak to Ms Siviwo Zena and left a message to gently remind you of the review period on the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project which ends **Friday, 07 November 2014** (close of business day).

Kindly refer to previous communication reminders sent to authorities.

The report (Incl. all Appendices) is still available for your comment on the Zitholele's website:
<http://www.zitholele.co.za>.

Important note: If you have comments that you would like to make but have not yet submitted, please do so before the close of business, **Friday, 07 November 2014**.

Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

T: +27 11 207 2060 **D:** +27 11 088 8454 **F:** +27 86 206 7720/+27 86 676

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ZITHOLELE
CONSULTING

Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:33 PM
To: 'd.zoekop@lando.co.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Dr Koos Pretorius,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

My phone call today (I have left a message on your mobile number) serves as a gentle reminder of the review period on the Revised Draft Environmental Impact Report (DEIR) for the above-mentioned proposed project which ends **Friday, 07 November 2014** (close of business day).

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:34 PM
To: 'ztshongwe@msukaligwa.gov.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Mr ZT Shongwe,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Kind regards,

Tricia Njapha

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:31 PM
To: 'spxulu@mpg.gov.za'
Cc: 'okmosome@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Ms Sindisiwe P Xulu,

Copied in this email: Ms Olda Mosome

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:22 PM
To: 'mahlakudt@mpg.gov.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Ms Thabile Matlaku,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:23 PM
To: 'mmposi@mpg.gov.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project
Importance: High

Dear Mr Mashudu Mposi,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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From: Mashudu Mposi <mmposi@mpg.gov.za>
Sent: 06 November 2014 03:25 PM
To: Tricia Njapha
Subject: Re: 12670: Camden Power Station Ash Disposal Facility ExpansionProject

Unfortunately I could not comment on the report due to time frames and busy schedule. However we will send our comments on the final draft of your report. Kind regards. Mashudu Mposi.

Sent from Samsung Mobile

----- Original message -----

From: Tricia Njapha <trician@zitholele.co.za>
Date: 06/11/2014 13:22 (GMT+02:00)
To: Mashudu Mposi <MMposi@mpg.gov.za>
Cc: Leoni Lubbe <Leonil@zitholele.co.za>, Nicolene Venter <nicolenev@zitholele.co.za>, Tania Oosthuizen <taniao@zitholele.co.za>
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

>>> "Tricia Njapha" 2014-11-06T13:43:02.269468 >>>

Dear Mr Mashudu Mposi,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· **Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014**

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Thanking you in advance.

Kind regards,

Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:28 PM
To: 'mkumalo@mpg.gov.za'
Cc: 'dmatlatji@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Ms Makfalda Kumalo,

Copied in this email: Mr Dan Malatji

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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9950 **C:** +27 83 775 3197 **E:** trician@zitholele.co.za **W:** www.zitholele.co.za



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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:29 PM
To: 'dmatlatji@mpg.gov.za'
Cc: 'mkumalo@mpg.gov.za'; Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Mr Dan Malatji,

Copied in this email: Ms Makfalda Kumalo

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 02:01 PM
To: 'S.Manyike@sanbi.org.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Mr Sagwata Manyike,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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Tricia Njapha

From: Tricia Njapha
Sent: 06 November 2014 01:30 PM
To: 'PatriciaMJ@daff.gov.za'
Cc: Tania Oosthuizen; Nicolene Venter; Leoni Lubbe
Subject: 12670: Camden Power Station Ash Disposal Facility Expansion Project

Importance: High

Dear Ms Nomvuzo Mjadu,

INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER STATION, MPUMALANGA

· Revised Draft Environmental Impact Report (DEIR) Comment Period Ending Friday 07 November 2014

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Thanking you in advance.

Kind regards,

Tricia Njapha

Public Participation Practitioner

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Leoni Lubbe

From: PatriciaMJ [PatriciaMJ@daff.gov.za]
Sent: 07 November 2014 04:19 PM
To: Leoni Lubbe; Nicolene Venter
Cc: MaryJeanG
Subject: Comments for C
Attachments: Comments EIA Camden Ash Disposal Final f1.pdf

Good day

Please receive comments for Camden Ash Disposal, we are looking forward to provide our comments to the Final Draft.

Regards

Nomvuzo Mjadu
Deputy Director Water Management
Directorate Water Use and Irrigation Development
Department of Agriculture, Forestry and Fisheries
Tel 012 846 8597
Cell 076 349 6365

Tricia Njapha

From: Tricia Njapha
Sent: 26 November 2014 10:07 AM
To: 'PatriciaMJ@daff.gov.za'
Cc: 'marym@nda.agric.za'; 'tobileb@eskom.co.za'; Tania Oosthuizen; Nicolene Venter
Subject: 12670: Letter to DAFF (Water Management)
Attachments: DAFF-MJADU PN.pdf; 12670-34-Let-003-DAFF WaterMng Feedback-Rev1.pdf

Importance: High

Dear Ms Mjadu

INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE

(DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)

- Response to Department of Forestry and Fisheries for comments on the Revised Draft Environmental Impact Assessment Report

I trust you are well.

With reference to your letter dated **07 November 2014**, kindly find also attached the responses thereto.

Please be informed that the comments raised and Zitholele Consulting's responses will be included in the Comments and Response Report of the Final Environmental Impact Assessment Report.

Should you have any queries, please do not hesitate to contact us.

Kind regards,

Tricia Njapha

Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

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agriculture,
forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Tel: 012 848 8597

Fax: 086 668 7223

Email: PatriciaMJ@daff.gov.za

| | | | |
|-----------------|--|-------|---|
| To: | Leoni Lubbe Zitholele Consulting | From: | Nomvuzo Mjadu Department of Agriculture, Forestry and Fisheries Directorate: Water Use and Irrigation Development |
| Cc: | Nicolene Venter | Date: | 07 November 2014 |
| Re: | SUBJECT: INPUTS/ COMMENTS FOR DRAFT ENVIRONMENTAL IMPACT ASSESSMENT FOR THE PROPOSED EXTENSION OF ASH DISPOSAL FACILITY AT CAMDEN POWER STATION | | |
| COMMENTS | | | |

Comments:

One of the major problems facing agricultural sector is the loss of high potential agricultural land and water pollution.

The study area is dominated by agricultural potential land and grazing land. The proposed areas (Alternative 1, 2 and 3) have agricultural activities taking place.

- On page 42 it is mentioned that there was a discussion with farmers on both Southern sites, who indicated that they do not want development within their farming land, but there is no mention of a discussion of this kind with the farmer(s) on the North, Site 1
- The DEIA report under impact identification, the impact on livestock around or in the vicinity of the proposed site was not considered
- Ash is known to be one of the dangerous airborne pollutants and when or if it comes to contact with pasture/ cattle feed it can cause disorder in cattle, characterized by chronic diarrhea, reduced growth and weight loss (Vikas Eknath Mahajan *et al*, 2012). Are there any plans to be put in place to address this, e.g.: provision of alternative grazing area?
- On page 54 of the Biophysical Report under Additional impacts it is mentioned that once operational the contaminated water could seep into freshwater bodies and impact the

health of plants and animals. What are the mitigation plans to be put in place to minimize this.

- In relation to water pollution, with the fact Vaal River is about 5km away, the DEAR does not consider pollution into the Vaal River which might be contributed by tributaries and streams via the Witpunt spruit, and therefore, it is recommended that monitoring of water quality is also conducted in the Vaal River.

The Department of Agriculture, Forestry and Fisheries (DAFF) acknowledges the need for continuous electricity generation to meet the growing demand, however in doing so Eskom should optimize on management plans to ensure that the current agricultural practices are not compromised.

MS P. N. MJADU

DEPUTY DIRECTOR: WATER MANAGEMENT

DATE: 07.11.2014

Our Ref: 12670-36-Let-003-DAFF Feedback

21 November 2014

Department of Agriculture, Forestry and Fisheries (DAFF)
Directorate: Water Use and Irrigation Development

Dear Ms Mjadu

INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE (DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)

This letter serves to provide responses on the comments received from the Department of Agriculture, Forestry and Fisheries (DAFF), Water Use and Irrigation Directorate on the Revised Draft Environmental Impact Assessment Report (RDEIR). This document was made available for public and authority review from Monday, 29 September to Monday 10 November 2014. The Environmental Impact Assessment (EIA) process is undertaken for the proposed extension of the Ash Disposal Facility (ADF) for the Camden Power Station.

Below are a list of the comments received from the DAFF and our response thereto.

- 1) On page 42 of the Biophysical Report it is mentioned that there was a discussion with farmers on both Southern sites, who indicated that they do not want development within their farming land, but there is no mention of a discussion of this kind with the farmer(s) on the North, Site 1

Zitholele Consulting can confirm that the previous landowner of Uitkomst 292 IT, portion 18 (Site 1), Mr Chris du Toit, was notified and consulted regarding this proposed project. When Site 1 was selected, through the environmental assessment process, as the preferred site for this proposed development, Eskom Holdings SOC limited initiated discussions with Mr du Toit and his legal representative, Mr Karel Smit, Smit & Van Wyk Attorneys, based in Hendrina. During the consultation process in September 2014, Zitholele Consulting was informed by Mr Du Toit that he sold the property to Mr John Lloyd in early 2014. Both Mr Lloyd and Mr Du Toit have been consulted with regarding this proposed project (refer to Appendix A).

In addition, Mr Lloyd, new owner of Uitkomst 292 IT, portion 18 (Site 1) confirmed (refer to email attached, Appendix B) that he does not currently undertake any agricultural activities on this farm. He indicated some cattle, not belonging to him, might be grazing on this farm portion. Although the land has agricultural potential, there will be no loss in active farming land. Crop cultivation takes place on the adjacent farms, but no commercial cattle farming in the immediately surrounding area.

- 2) The RDEIR report under impact identification, the impact on livestock around or in the vicinity of the proposed site was not considered. Ash is known to be one of the dangerous airborne pollutants and

when or if it comes to contact with pasture/ cattle feed it can cause disorder in cattle, characterized by chronic diarrhoea, reduced growth and weight loss (Vikas Eknath Mahajan et al, 2012). Are there any plans to be put in place to address this, e.g.: provision of alternative grazing area?

There are currently no farming activities by the land owner taking place on Site 1. Crop cultivation takes place on the adjacent farms, but no commercial cattle farming in the area immediately surrounding the proposed new ADF.

The article referred to in your question assesses the overall impact caused by power stations, and not specifically the impacts from the ADF. Please bear in mind, the Camden EIA under review is focussed on assessing the impacts associated with the extension of the life of the existing power station, by developing a new ADF. There will be no increase in production by the power station. The proposed new ADF will replace the existing ADF when it reaches the end of its operating life.

Although the power station itself is not part of the Camden EIA under review, it is worth noting that unlike the power plant in India used in the article, Camden Power Station has fabric filter plants installed which are effective in removing fly ash from the flue gas.

Air quality mitigation, management and monitoring measures are proposed to minimise the impacts of airblown dust from the newly proposed ADF on the receiving environment. The air quality impacts and mitigation measures are contained in Sections 11.2.8; 11.3.8 and 11.4.8 and 11.5.8 of the FEIR.

Camden power station undertakes monthly air quality monitoring at a monitoring station located to the East of the power station to ensure that their impacts are within the acceptable limits of the National Air Quality Standard. Camden Power Station's measurements are also audited once a year. The latest monitoring report is included in Appendix M. Eskom has initiated a dust fallout monitoring programme which started back in 2011 and Eskom Camden has now secured a 3 year monitoring contract to monitor fugitive emission

3) Page 54 of the Biophysical Report under Additional impacts it is mentioned that once operational the contaminated water could seep into freshwater bodies and impact the health of plants and animals. What are the mitigation plans to be put in place to minimize this.

The newly proposed ADF will be lined with a type 3 barrier system, as the ash is classified as type 3 waste according to the Department of Environmental Affairs (DEA) Norms and Standards for waste disposal at landfill. Meetings have been held with the Department of Water and Sanitation (DWS) engineering division in which the liner design was approved in principle. Figure 1 below is an illustration of the liner design that will be applied for. The liner is designed to minimise the risk of seepage to water resources. Refer to Section 11 of the EIR for the mitigation measures per environmental aspect and project phase and to or Appendix R for the Environmental Management Programme Report (EMPr).

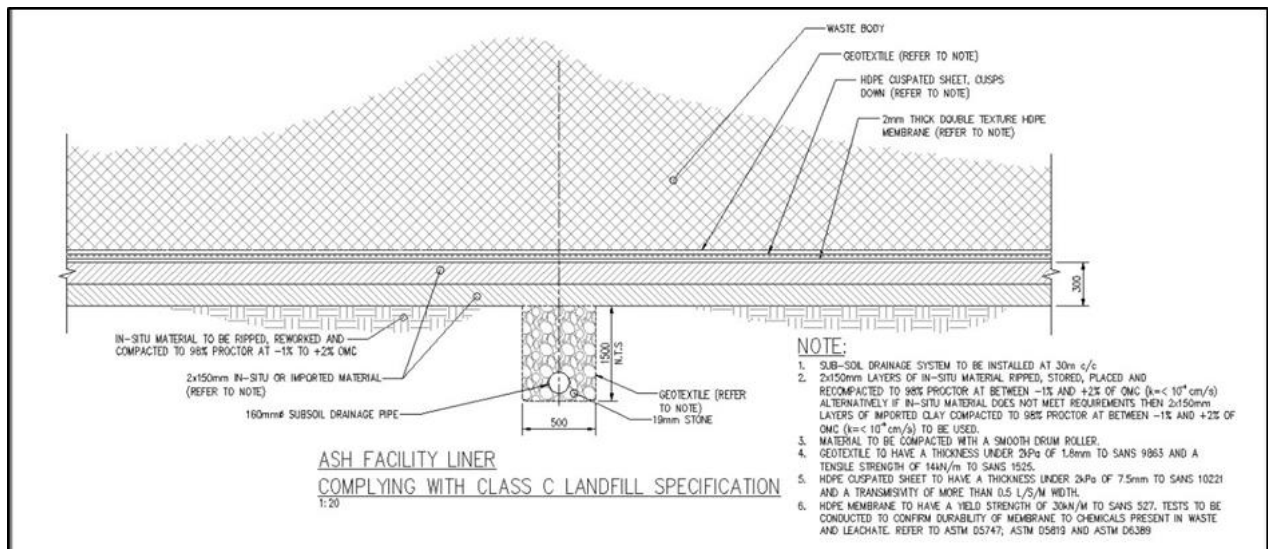


Figure 1: Class C Landfill Barrier System

4) In relation to water pollution, with the fact that the Vaal River is about 5km away, the DEAR does not consider pollution into the Vaal River which might be contributed by tributaries and streams via the Witpunt spruit, and therefore, it is recommended that monitoring of water quality is also conducted in the Vaal River.

Section 11 of the EIR addresses the impacts and associated mitigation measures per environmental aspect per project phase. The surface water and wetlands impacts and mitigation measures are contained in Sections 11.2.4; 11.3.4 and 11.4.4 and 11.5.4 and the groundwater impacts and mitigation measures are contained in Sections 11.2.5; 11.3.5, 11.4.5 and 11.5.5

Camden Power Station undertakes routine water monitoring. Refer to Section 4 of Appendix R (EMPr) for details on the monitoring undertaken. There are surface water and biomonitoring points located on the Witpunt Spruit.

Please note that you will also be provided with a black and white hard copy of the FEIR when it is submitted to the DEA. Should you have further comments, these should be submitted directly to the DEA.

Yours sincerely,

Nicolene Venter
Senior Public Participation Practitioner

CC: Mr Mogale, Deputy Director: Land Use and Soil Management
Mr Tobile Bokwe, Manager: SEA/EIA Centre of Excellence

APPENDIX A

Detailed Report

Chris du Toit
Grondeienaar
Plaas: Uitkomst
Posbus 169
ERMELO 2350

Email: dinadutoit@gmail.com

TEL 051 722-1511
FAX 053 631-0259
Cell 082 684 3812

Notes - du Toit, Chris

7 November 2014 1:12 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27826843812 'Hersiende KOIV Kommentaar Periode Eindig- vandag Vry 07Nov2014 - Voorgestelde uitbreiding van die AVI by Camden Kragstasie. Leoni, Zitholele 011 207 2060'

7 November 2014 9:32 AM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Revised DEIR Comment Period Ending - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

31 October 2014 2:20 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27826843812 'Hersiende KOIV Kommentaar Periode Eindig Binnekort - Vry 07Nov2014 - Voorgestelde uitbreiding van die AVI by Camden KS. Groete Leoni, Zitholele 011 207 2060'

31 October 2014 2:09 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

3 October 2014 3:04 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Hersiende KOIV Kommentaarperiode Begin – Voorgestelde uitbreiding van die AVI by Camden Kragstasie
 The Following Attachments Were Sent:
 12670-Let-001-Revised DEIR-PM Notification (Afr).pdf
 12670-RevDEIRCommentSheet (Afr).docx

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

29 September 2014 5:22 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27826843812 'Hersiende KOIV beskikbaar insae en kommentaar - Maan 29- 09-14 - Vry 07-11-2014 - Voorgestelde uitbreiding van Asfality, Camden Kragstasie. Leoni 0112072060'

29 September 2014 4:01 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject:
 The Following Attachments Were Sent:
 12670-Let-001-Revised DEIR-PM Notification-Rev0.pdf
 12670-RevDEIRCommentSheet-Rev0.docx

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

17 September 2014 1:21 PM

Creator: NICOLENE Type: Email Full Access: Public Read Access: Public
 Subject: OIE: VOORGESTELDE UITBREIDING VAN DIE ASWEGDOENINGSFASILITEIT VIR CAMDEN KRAGSTASIE - Konsepsnotule van Vergadering gehou
 The Following Attachments Were Sent:
 12670-85-04-Min-001-FGM LO-Rev0.pdf

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

8 August 2014 3:52 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: GEÏNTEGREËRDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAARDGAANDE INFRASTRUKTUUR BY DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE
 The Following Attachments Were Sent:
 12670-36-Let-002-EIA Status-Rev3 (Afr).pdf

Detailed Report

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

8 August 2014 3:43 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public

Subject: GEÏNTEGREERDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAAARDGAANDE INFRASTRUKTUUR BY DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE

An email has been sent to "Chris du Toit" <dinadutoit@gmail.com>.

4 August 2014 11:47 AM

Creator: MASTER Type: Email Full Access: Public Read Access: Public

Subject: EIA PROJECT STATUS LETTER - INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA

The Following Attachments Were Sent:

12670-36-Let-002-EIA Status-Rev3.pdf

APPENDIX B

Nicolene Venter

From: Nicolene Venter
Sent: 19 November 2014 07:35 AM
To: John Lloyd (lloyd.business@telkomsa.net); 'lloyd.business@vodamail.co.za'
Cc: Tania Oosthuizen; Tricia Njapha
Subject: Camden ADF EIA: Confirmation of Telephone Discussion (Wednesday 12 November 2014)

Importance: High

| Tracking: | Recipient | Delivery |
|------------------|--|--------------------------------|
| | John Lloyd (lloyd.business@telkomsa.net) | |
| | 'lloyd.business@vodamail.co.za' | |
| | Tania Oosthuizen | Delivered: 19/11/2014 07:36 AM |
| | Tricia Njapha | Delivered: 19/11/2014 07:35 AM |

Good Morning John,

This e-mail serves as confirmation regarding our telephone discussion held on Wednesday 12 November 2014 in which we confirmed that currently there are no agricultural activities (sustainable crop and grazing) taking place on your property Uitkomst 292IT, Ptn 18. It was also confirmed that this property is currently being leased.

Please do not hesitate to contact me should the above-mentioned confirmation not be a true reflection of our discussion.

Kind Regards,

Kind Regards,

Nicolene Venter [Cert. Public Relations]

Senior Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

T: +27 11 207 2060 **D:** +27 11 207 2077 **F:** +27 86 676 9950 **C:** +27 83 377 9112

E: nicolenev@zitholele.co.za **W:** www.zitholele.co.za



Please consider the environment before printing this e-mail



Detailed Report

John Lloyd
Grondeienaar
Plaas: Uitkomst
Posbus 272
HENDRINA 1095

Main **013 293 0386**
Cell **082 561 4559**

Email: lloyd.business@telkomsa.net
 Email 2: lloyd.business@vodamail.co.za

Notes - Lloyd, John

12 November 2014 5:48 AM

Creator: NICOLENE Type: Email Full Access: Public Read Access: Public
 Subject: EIA & WML: Proposed Camden ADF - Confirmation and information of Landowner
 The Following Attachments Were Sent:

12670-83-Let-004-EIA Notification-LLOYD John-Rev0.pdf

An email has been sent to "John Lloyd" <lloyd.business@telkomsa.net>; "Karel Smit" <karel@smitvw.com>; "Tania Oosthuizen" <taniao@zitholele.co.za>.

7 November 2014 1:12 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27825614559 'Hersiende KOIV Kommentaar Periode Eindig- vandag Vry 07Nov2014 - Voorgestelde uitbreiding van die AVI by Camden Kragstasie. Leoni, Zitholele 011 207 2060'

7 November 2014 9:31 AM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Revised DEIR Comment Period Ending - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig – Voorgestelde uitbreiding van die AVI by Camden Kragstasie
 An email has been sent to "John Lloyd" <lloyd.business@telkomsa.net>.

31 October 2014 2:20 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27825614559 'Hersiende KOIV Kommentaar Periode Eindig Binnekort - Vry 07Nov2014 - Voorgestelde uitbreiding van die AVI by Camden KS. Groete Leoni, Zitholele 011 207 2060'

31 October 2014 2:08 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Revised DEIR Comment Period Ending Soon - Proposed Expansion of the ADF at Camden Power Station / Hersiende KOIV Kommentaar Periode Eindig Binnekort – Voorgestelde uitbreiding van die AVI by Camden Kragstasie
 An email has been sent to "John Lloyd" <lloyd.business@telkomsa.net>.

3 October 2014 3:02 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: Hersiende KOIV Kommentaarperiode Begin – Voorgestelde uitbreiding van die AVI by Camden Kragstasie
 The Following Attachments Were Sent:
 12670-Let-001-Revised DEIR-PM Notification (Afr).pdf
 12670-RevDEIRCommentSheet (Afr).docx
 An email has been sent to "John Lloyd" <lloyd.business@telkomsa.net>.

29 September 2014 5:22 PM

Creator: MASTER Type: Manual Full Access: Public Read Access: Public
 MaxSMS: SMS sent to Network. Number: +27825614559 'Hersiende KOIV beskikbaar insae en kommentaar - Maan 29- 09-14 - Vry 07-11-2014 - Voorgestelde uitbreiding van Asfasiliteit, Camden Kragstasie. Leoni 0112072060'

29 September 2014 3:55 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject:
 The Following Attachments Were Sent:
 12670-Let-001-Revised DEIR-PM Notification-Rev0.pdf
 12670-RevDEIRCommentSheet-Rev0.docx
 An email has been sent to "John Lloyd" <lloyd.business@telkomsa.net>.

8 August 2014 3:51 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
 Subject: GEÏNTEGREERDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAARDGAANDE INFRASTRUKTUUR BY DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE
 The Following Attachments Were Sent:
 12670-36-Let-002-EIA Status-Rev3 (Afr).pdf
 An email has been sent to "John Lloyd" <lloydbusiness@telkomsa.net>.

Detailed Report

8 August 2014 3:43 PM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
Subject: GEÏNTEGREERDE OMGEWINGSMAGTIGINGSPROSES (OIE EN AANSOEK OM AFVALBESTUURLISENSIE) VIR DIE
VOORGESTELDE UITBREIDING VAN DIE ASVERWYDERINGSINSTALLASIE EN GEPAAARDGAANDE INFRASTRUKTUUR BY
DIE CAMDEN KRAGSTASIE NABY ERMELO, MPUMALANGAPROVINSIE
An email has been sent to "John Lloyd" <lloydbusiness@telkomsa.net>.

4 August 2014 11:45 AM

Creator: MASTER Type: Email Full Access: Public Read Access: Public
Subject: EIA PROJECT STATUS LETTER - INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE
MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND
ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA
The Following Attachments Were Sent:
12670-36-Let-002-EIA Status-Rev3.pdf
An email has been sent to "John Lloyd" <lloydbusiness@telkomsa.net>.

14 July 2014 5:44 PM

Creator: NICOLENE Type: Email Full Access: Public Read Access: Public
Subject: Camden Asprojek: Huurder op Uitkomst 292IT, Ged 18
An email has been sent to "John Lloyd" <lloydbusiness@telkomsa.net>; "Tania Oosthuizen" <taniao@zitholele.co.za>.

14 July 2014 5:38 PM

Creator: NICOLENE Type: Email Full Access: Public Read Access: Public
Subject: OIE: Camden Aswegdoeningsfasiliteit - Verlening van toestemming vir toegang

Tricia Njapha

From: Tricia Njapha
Sent: 26 November 2014 10:11 AM
To: 'marym@nda.agric.za'
Cc: 'PatriciaMJ@daff.gov.za'; 'tobileb@eskom.co.za'; Tania Oosthuizen; Nicolene Venter
Subject: 12670: Letter to DAFF (Land Use and Soil Management)
Attachments: 12670-DAFF- MOGALE MD.pdf; 12670-34-Let-004-DAFF Soils Feedback-Rev0.pdf

Importance: High

Dear Ms Mogale

INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE

(DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)

- Response to Department of Forestry and Fisheries for comments on the Revised Draft Environmental Impact Assessment Report

I trust you are well.

With reference to your letter dated **04 November 2014**, kindly find also attached the responses thereto.

Please be informed that the comments raised and Zitholele Consulting's responses will be included in the Comments and Response Report of the Final Environmental Impact Assessment Report.

Should you have any queries, please do not hesitate to contact us.

Kind regards,

Tricia Njapha

Public Participation Practitioner

Building 1, Maxwell Office Park, Magwa Crescent West, cnr Allandale Road & Maxwell Drive, Waterfall City, Midrand, RSA

T: +27 11 207 2060 **D:** +27 11 088 8454 **F:** +27 86 206 7720/+27 86 676

9950 **C:** +27 83 775 3197 **E:** trician@zitholele.co.za **W:** www.zitholele.co.za



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agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Directorate Land Use & Soil Management, P.O. Box 8806, NELSPRUIT, 1200
27 Brown Street, 2nd Floor

Tel: (013) 754 0728 / 0701 ☐☐Fax: (013) 754 0735 ☐☐E-mail: MaryM@nda.agric.za
Enquiries: MD Mogale Ref: LUSM/ 10/8/7/9 NIs/MP

The Regional Director
Private Bag x7279
WITBANK
1035

04 November 2014

Attention: Mr. F Muronga

**INTEGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE
APPLICATION: PROPOSED EXPANSION OF THE ASH DISPOSAL FACILITIES AT CAMDEN POWER
STATION MPUMALANGA**

Ref: MP 12/12/20/2300 EM

The Directorate: Land Use and Soil Management would like the applicant to ensure that:

- Detailed of soil studies must be included in the EMPR.
- Rehabilitation plan must be clearly stated and included in the EMPR.
- Pre and post mining use must be included in the EMPR.
- Weed and Invader Plants control management plan must be included in the EMPR.
- Detailed of sensitive areas like wetlands must be included in the EMPR.

Regards,

M.D Mogale
Resource Auditor

Our Ref: 12670-34-Let-004-DAFF Soils Feedback

21 November 2014

Department of Agriculture, Forestry and Fisheries (DAFF)
Directorate: Land Use and Soil Management

Dear MD Mogale

INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (ENVIRONMENTAL IMPACT ASSESSMENT AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE (DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)

This letter serves to provide responses on the comments received from the Department of Agriculture, Forestry and Fisheries (DAFF), Land Use and Soil Management Directorate on the Revised Draft Environmental Impact Assessment Report (RDEIR). The RDEIR was made available for public and authority review from Monday, 29 September to Monday 10 November 2014. The Environmental Impact Assessment (EIA) process is undertaken for the proposed extension of the Ash Disposal Facility (ADF) for the Camden Power Station.

Below is a list of the comments received from the DAFF and the project's response thereto.

1) Detailed soils studies must be included in the Environmental Management Programme Report (EMPr)

A detailed soil study was undertaken and was appended to the RDEIR as Appendix I, and will also be appended to the EIR as Appendix I. The findings of this study are incorporated into various sections of the EIR and EMPr.

2) Rehabilitation plan must be clearly stated

The rehabilitation plan is contained in Section 7.6 of the Conceptual Engineering Report (Appendix J). Generally, the new ADF will be rehabilitated by placing of a 300mm thick layer of topsoil on top of the facility and the planting of indigenous grass.

3) Pre-and post-mining use must be clearly stated in the EMPr

The proposed project is not a mining operation. The EIA is for an Ash Disposal Facility (ADF) directly adjacent to the existing Camden Power Station. The farm portion (Uitkomst 292, portion 18) on which the preferred site (Site 1) is proposed, is not being used for agriculture by the land owner, although he indicated that there might be cattle grazing on this land not belonging to him. The ADF will remain into perpetuity although it will be rehabilitated and revegetated to minimise air quality impacts caused by the blowdown of ash dust.

4) Weed and invader plants control management plan must be included in the EMPR

Refer to Section 8.14 of the EMPr (Appendix R) which is focussed on the management of flora, including the eradication of alien invasive species.

5) Details of sensitive areas like wetlands must be included in the EMPR

Sensitive areas such as wetlands are described in Section 9 of the EIR.

Please note that you will also be provided with a black and white hard copy of the FEIR when it is submitted to the DEA. Should you have further comments, these should be submitted directly to the Department of Environmental Affairs (DEA).

Yours sincerely,



Nicolene Venter

Senior Public Participation Practitioner

CC: Ms Mjadu, Deputy Director: Water Management
Mr Tobile Bokwe, Manager: SEA/EIA Centre of Excellence

Tricia Njapha

From: MaryM <MaryM@daff.gov.za>
Sent: 27 November 2014 08:20 AM
To: Tricia Njapha
Cc: PatriciaMJ; tobileb@eskom.co.za; Tania Oosthuizen; Nicolene Venter
Subject: Comments (Land Use and Soil Management)

Morning All

Firstly I would like to apologise for the inconveniences. I was not in the office and I had lots of comments on my computer. I send one of my colleagues to send you the comments, those comments were on my pc but that is not what we were supposed to send you. So she printed them and emailed you. I trusted her but unfortunately she send the wrong one. My mistake, I will email you the correct response from the Department. Can you please don't take that into consideration. Thought all is well I didn't go back and check the send items. That is not the correct comment

Hope you will find this in order

Regards
Mary

From: Tricia Njapha [<mailto:trician@zitholele.co.za>]
Sent: 26 November 2014 10:11 AM
To: MaryM
Cc: PatriciaMJ; tobileb@eskom.co.za; Tania Oosthuizen; Nicolene Venter
Subject: 12670: Letter to DAFF (Land Use and Soil Management)
Importance: High

Dear Ms Mogale

INTEGRATED ENVIRONMENTAL AUTHORISATION PROCESS (EIA AND WASTE MANAGEMENT LICENSE APPLICATION) FOR THE PROPOSED EXTENSION OF THE ASH DISPOSAL FACILITY AND ASSOCIATED INFRASTRUCTURE AT CAMDEN POWER STATION NEAR ERMELO, MPUMALANGA PROVINCE

(DEA Ref. No: 12/12/20/2300 and NEAS Ref. No.: DEA/EIA/0000399/2011)

- Response to Department of Forestry and Fisheries for comments on the Revised Draft Environmental Impact Assessment Report

I trust you are well.

With reference to your letter dated **04 November 2014**, kindly find also attached the responses thereto.

Please be informed that the comments raised and Zitholele Consulting's responses will be included in the Comments and Response Report of the Final Environmental Impact Assessment Report.

Should you have any queries, please do not hesitate to contact us.

Tricia Njapha

From: MaryM <MaryM@daff.gov.za>
Sent: 27 November 2014 08:47 AM
To: Tricia Njapha
Cc: Tania Oosthuizen; tobileb@eskom.co.za; Nicolene Venter
Subject: CAMDEN STATION COMMENTS
Attachments: 20141127074515884.pdf

Morning

Please find attached.

My apology ones more we are using one computer being the 3 of us.

Regards
Mary



agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA

Directorate Land Use & Soil Management, P.O. Box 8806, NELSPRUIT, 1200
27 Brown Street, 2nd Floor

Tel: (013) 754 0728 / 0701 ☐☐Fax: (013) 754 0735 ☐☐E-mail: MaryM@nda.agric.za
Enquiries: MD Mogale Ref: LUSM/ 10/8/7/9 NIs/MP
CAMDEN STATION

The Regional Director
Private Bag x7279
WITBANK
1035

04 November 2014

Attention: Mr M.F Muronga

**INTERTGRATED ENVIRONMENTAL AUTHORISATION AND WASTE MANAGEMENT LICENSE
APPLICATION: PROPOSED EXPANSION OF THE WASTE DISPOSAL FACILITIES AT
CAMDEN POWER STATION MPUMALANGA**

Ref: MP 12/12/20/2300 EM

The Directorate: Land Use and Soil Management does not have any comment.

Regards,

M.D Mogale
Resource Auditor