

APPENDIX C

PUBLIC PARTICIPATION

Summary of Public Participation undertaken

Turn 180 Environmental Consultants conducted a public participation process as part of the Integrated Water and Waste Management Plan ("IWWMP") for the proposed rehabilitation of the historically mined pit in Jagersfontein by infilling coarse and fine tailings into the pit from the process plant at Jagersfontein Developments (Pty) Ltd's ("JD") diamond extraction operation. As a permit in terms of Section 38(1) of the National Heritage Resources Act 25 of 1999 is also required for the project, the public participation also aimed at facilitating heritage and historical inputs for the Section 38(1) permit application. This permit application will be submitted to the South African Heritage Resources Agency ("SAHRA") by Cliff Dekker Hofmeyr.

The following formed part of the public participation process:

Newspaper Notices

- A notice was placed in a local newspaper, namely the *Bloem Nuus/News*, on 31 October 2019. It is a Bloemfontein based newspaper, which is also distributed to surrounding towns including Jagersfontein.
- A notice was placed in the national newspaper *City Press* on 3 November 2019.

Site Notices

- On 1 November 2019, four A3 (x2) sized notices were placed at: the entrance to the JD site; inside the site at the pit; the entrance to the old museum and gantry; and at the entrance to the site along the Fauresmith road.

Notices in Jagersfontein

- On 1 November 2019 A4 sized notices were also placed at prominent locations in Jagersfontein, namely: the post office; police station; Jagersfontein library; clinic in Itumeleng; and at the SASSA offices.

Maildrops

- 3000 flyers were distributed in Jagersfontein and the residential areas of Itumeleng and Charlesville on 1 November 2019. As it was a start of the month and a Friday, many people were in town, especially at the post office and bank teller.

Stakeholder engagement

- The background information document ("BID") and a cd of the IWWMP were delivered to Bloemfontein-based stakeholders on 4 November 2019. The same was couriered to the Regional Branch of the Department of Mineral Resources and Energy on 4 November 2019 in Welkom.
- BID's and cd of the IWWMP were delivered to Kopanong Local Municipality ("KLM") and Xhariep District Municipality representatives on 6 November 2019.

Surrounding Landowners

- Surrounding landowners and other interested and affected parties ("I&APs") were sent the BID via email on 5 November 2019. Surrounding landowners without email addresses were sent a SMS notification on 6 November 2019.

Meetings

- A meeting was held at the KLMs offices in Trompsburg to discuss the project. KLM, Xhariep District Municipality and Department of Environmental Affairs, Forestry and Fisheries ("DEFF") representatives were present.
- A public meeting was planned for 16 November 2019 in Jagersfontein. The meeting was however cancelled the day before on request of the Ward Councillor. Despite the late cancellation, nobody arrived for the meeting.
- A new date and time to address the community was proposed by the Ward Councillor.
- A community meeting was held in the Mayibuye Hall in Itumeleng. 13 attendees were present. Presentations on the project and feedback on the socio-economic assessment were shown. Refer to the minutes of the meeting for more detail on the discussions held.

Comments received

- The comment period ended on 6 December 2019.
- Comments were received from the Department of Rural Development and Land Reform and from Prof Haggerty (refer to page 48).
- A telephonic comment received from Me. Theron of the Blue Diamond Lodge is noted in the List of I&APs.

List of Interested and Affected Parties (“I&AP’s”)

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Authorities & Stakeholders				
Me. L.Y. Moletsane (Municipal Manager)	Xhariep District Municipality	051 713 9300 (Tel) 051 713 0461 (Fax) Private Bag X136 Trompsburg 9913 21 Louw Street Trompsburg 9913 hammykamasoso@gmail.com (Yvonne – PA)	Invitation to Municipal meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No comments received
Me. M.A. Keswa (Environmental Health Manager) Mr. T. Fuma (Environmental Health Practitioner)	Xhariep District Municipality	072 147 8618 (Cell) Private Bag X136 Trompsburg 9913 xhariepehp@gmail.com 051 541 0012 (Tel) 073 033 5612 (Cell) ffholang@gmail.com	Invitation to Municipal meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No Comments received
Mr. Tshepo Moselesele (Local Government Support)	DEFF	083 944 5522 (Cell) tmos118@yahoo.com tmoselesele@environment.gov.za	Invitation to Municipal Meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No Comments received
Mr. N. Kelepu (Acting Municipal Manager)	KLM	051 713 9200 (Tel) 064 394 9524 (Cell) 051 713 0335 (Fax) Private Bag X23 Trompsburg 9913 mm@kopanong.gov.za nkelepu@yahoo.com	Invitation to Municipal Meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No comments received

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Cllr. J. Moitse Municipal Ward Councillor: Ward 6 (Fauresmith)	KLM	051 713 9200 (Tel) 082 304 4397 (Cell) 063 798 7470 (Cell) 051 713 0292 (Fax) Private Bag X23 Trompsburg 9913 moitse@aol.com	Invitation to Municipal Meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No comments received
Cllr. Basholo Municipal Ward Councillor: Ward 7 (Jagersfontein)	KLM	078 033 1697 (Cell) phindilebasholo@icloud.com / esihlebasholo@gmail.com	Invitation to Municipal Meeting sent on 28 October and 4 November 2019. BID and IWWMP delivered on 6 November 2019.	No comments received
Dr.Ntli	Department of Human Settlements, Water and Sanitation (Free State)	051 405 9201 (Tel) 082 553 7200 (Cell) P.O. Box 528 Bloemfontein 9300 lenongp@dws.gov.za	BID and IWWMP delivered on 4 November 2019.	No comments received
Mr. Rowlen Ryan	Department of Rural Development and Land Reform	079 897 7787 (Cell) 136 Charlotte Maxete Street Bloemfontein 9301 rowlen.ryan@drdlr.gov.za	BID and IWWMP delivered on 4 November 2019.	Comments received dated 11 November 2019 stating that the Department has no objection, provided that approval is granted by other Departments.
Ms. G. Mkhosana (Regional Manager – EIA)	Department of Economic Small Business Development, Tourism and Environmental Affairs	051 400 4817/19 (T) 051 400 4842/11 (F) Private Bag X20801 Bloemfontein 9300 mkhosana@dteea.fs.gov.za	BID and IWWMP delivered on 4 November 2019.	No comments received
Dr. Ragna Redelstorff	South African Heritage Resource Agency	021 462 4502 (Tel) P.O. Box 4637 Cape Town 8000 rredelstorff@sahra.org.za	BID and IWWMP emailed on 11 November 2019. IWWMP uploaded on SAHRIS by Cliffe Dekker Hofmeyr.	No comments received

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Me. Loudine Philip	Free State Heritage Authority	078 448 9307 (Cell) 051 447 9609 (Tel) National Museum Bloemfontein 9301 loudinep@gmail.com	BID and IWWMP delivered on 4 November 2019.	No comments received
Me. Kalipa Kewuti (Regional Director)	Dept of Mineral Resources	057 391 1385 (Tel) Private Bag X33 Welkom 9460 Kalipa.kewuti@dmr.gov.za	BID and IWWMP couriered on 4 November 2019.	No comments received
Identified Interested and Affected Parties				
Mr. Lucas Dreyer (Adjacent landowner)	Farm Nebo 313	083 388 1117 (Cell) 051 432 7624 (Fax) P.O. Box 13939 Noordstad Bloemfontein 9301 lucas@wgkconstruction.co.za	BID sent via e-mail on 5 November 2019.	No comments received
Mr. P. Louw (Adjacent landowner and member of farmers association)	Rietkuil 21/RE Commissiepoort 174	082 385 2007 (Cell) P.O. Box 163 Jagersfontein 9974 midkopsimbras@gmail.com	BID sent via e-mail on 5 November 2019.	No comments received
Mr. Dennis Louw (Adjacent landowner)	Vlakfontein 1173/1	082 717 4521 (Cell) P.O. Box 76 Jagersfontein 9974	SMS sent on 6 November 2019.	No comments received
Mr. Nelius Booysen / JJ Van Niekerk Familietrust (Adjacent landowner)	Preezfontein North 927 Preezfontein 19/RE	082 576 7877 (Cell) PO Box 50 Fauresmith 9978 cwk.booysen@gmail.com	BID sent via e-mail on 5 November 2019.	No comments received
Mr. Marius Eksteen (Adjacent landowner)	Vogelfontein 15	082 566 7771 (Cell) ria@diysuper.co.za bonita@diysuper.co.za	BID and IWWMP delivered on 4 November 2019.	No comments received.

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Hugo Hamman (Adjacent landowner)	Mara 205	0017 631 1789 (Tel) 079 888 4733 (Cell) Hugo.hamman@sasol.com	BID sent via e-mail on 5 November 2019.	No comments received
Prospect Boerdery Trust Johan van Tonder & Yolandi Roux (Adjacent landowner)	Prospect 487	082 801 8100 (Cell) 082 876 5462 (Sai Roux) 082 528 1946 (Yolandi Roux) Postnet Suite 118 P/Bag X20097 Lydenburg 1120 johan.vantonder@glencore.co.za yvantonder@outlook.com	BID sent via e-mail on 5 November 2019.	No comments received.
Jacobus Albertus Van Zyl Botha Testamentere trust Rina Botha (Adjacent landowner)	Thomas 678/RE	083 455 1369 (Cell) 17 Voortrekkerstraat Fauresmith 9978	SMS sent on 6 November 2019.	No comments received
Gerrit Snyman (Adjacent landowner)	Rust en Vrede 393/1 Thomas 678/1	082 435 7858 (Cell) Brand Kraal 37 Brandkraal Jagersfontein 9974	SMS sent on 6 November 2019.	No comments received
Mr. Pieter Gabriel De Lange (Adjacent landowner)	Waterval 329	083 687 7681 (Cell) 051 724 1013 (Tel) Skaarfontein PO Box 193 Jagersfontein 9974	SMS sent on 6 November 2019.	No comments received
Mr. Jacobus Rudolph Kolver (Adjacent landowner)	Gamma 492 Paardeplaat A 964	051 722 2540 (Tell) 084 454 3454 (daughter - Jorina Schlebush) PO Box 73 Fauresmith 9978 jorinasch@gmail.com	BID sent via e-mail on 5 November 2019.	No comments received

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Mrs. Marianne Ross	Itumeleng Community Trust	083 729 0921 (Cell) PO Box 51 Jagersfontein 9974 marianne@itumeleng-trust.org	BID sent via e-mail on 5 November 2019.	No comments received
Mrs. Gillian Vermaak	Jagersfontein resident	082 355 1726 (Cell) gillianvermaak@gmail.com	BID sent via e-mail on 5 November 2019.	No comments received
Mr. Stephen van Wyk (Environmental Specialist)	Koffiefontein Diamond Mine	053 205 5144 (tel) P.O. Box 80 Koffiefontein 9986 Stephan.vanWyk@petradiamonds.com	BID sent via email on 5 November 2019.	No comments received
Mr..Chales Khobo / Mr. Surprise Xhwantini (chairman)	Jagersfontein Multi-Stakeholders Forum	076 365 2640 (Mr. Xhwantini - Cell) 081 273 6871 (Mr. Khobo – Cell) lsenguyexhwantini123@gmail.com khobo92.ck@gmail.com	BID sent via email on 5 November 2019.	No comments received
Mr. Daan Badenhorst		jagersfonteintruth@gmail.com	BID sent via email on 5 November 2019.	No comments received
Me. Cheryllyn Theron	Blue Diamond Lodge	072 792 0222 (Cell) Bluediamondlodge9@gmail.com	IWWMP sent via WeTransfer on 14 November 2019	Comments received telephonically on 6 December 2019 that Me. Theron is against the proposed infilling of the pit.
Mr. Frederick Wilson	Plaeinteriors	011 8838380 (Tel) 073 206 0708 (Cell) frederick@plaeinteriors.co.za frederickwilsonuk@yahoo.co.uk enkay@mail.com nelsonmarlene567@gmail.com	IWWMP sent via WeTransfer on 14 November 2019	No comments received

Contact Person	Organisation	Contact detail	Manner of notification	Comments & Response
Mr. Frederick Wilson	Plaeinteriors	011 8838380 (Tel) 073 206 0708 (Cell) frederick@plaeinteriors.co.za frederickwilsonuk@yahoo.co.uk enkay@mail.com nelsonmarlene567@gmail.com	IWWMP sent via WeTransfer on 14 November 2019	No comments received
Prof. Stephen Haggerty	Earth & Environmental Sciences Florida International University	haggerty@fiu.edu	BID sent via email and IWWMP sent via WeTransfer on 7 November 2019	Summary of comments received via email on 12 November 2019: 1) Jagersfontein Pit needs to be preserved for its historic and heritage value (first mine in SA and deepest hand-dug hole on earth) and because of its geological significance (first connection between hard rock viz. kimberlite and diamond). 2) Backfilling the pit with slimes and tailings will not stabilize the perimeter. 3) Backfilling with moisture-retaining fines is more likely to accelerate sidewall collapse. 4) Stability arguments comparing Jagersfontein with Kimberley mines are invalid because Jagersfontein is intruded into solid volcanic rock whereas with Kimberley the upper reaches are metastable sediments. 5) There are well established methods of stabilizing open pits. Retention gables and thixotropic cement are proven applications. 6) The remaining opening of a few surface hectares cannot and will not substitute the awe-inspiring view. 7) The tailings are chemically contaminated from modern processing and this will be released to groundwater wells in the surrounding area for many tens of kilometres radially. 8) Water from the pit is already known to have very high contents of arsenic, possibly from decomposed sulphides in the kimberlite or shales and sediments.

			<p>9) The tailings have high phosphate contents (excellent fertilizer but a portable water contaminant), and so the heaps need to be flattened not removed to have the Jagersfontein farm restored to being agriculturally viable.</p> <p>10) Advances in autonomous mining would make Jagersfontein an attractive proposition to reopen, given its long history of producing diamonds and blue-whites that are globally unique.</p> <p>11) Why would one back-fill a hole with material that still contains millions of carats of micro-diamonds that advancing technology will readily recover in the near future?</p> <p>12) Tailings are an economic resource, as is currently demonstrated at Jagersfontein, Kimberley and elsewhere. Resource tailings (aka dumps) will be the diamond mines of the future.</p> <p>Refer to the "comments received" section for correspondence from Prof Haggerty and his CV.</p>
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Newspaper Notices

(resized smaller to fit)

Bloem Nuus / News – 31 October 2019

6

Donderdag 31 Oktober 2019

Bloem NUUS NEWS



Op die geselligheid by die UV is van links dr. Henning Pieterse, prof. Angelique van Niekerk, prof. Jaap Steyn, prof. Hennie van Coller, prof. Bernard Odendaal en dr. Francois Smith.

Foto: Verskaf

Skrywer vir bydrae vereer

Die gevierde Afrikaanse skrywer, digter en akademikus, Jaap Steyn, se bydrae tot dié taal is deur die Universiteit van die Vrystaat (UV) se departement Afrikaans en Nederlands, Duits en Frans gehuldig met die publikasie van die boek *J.C. Steyn en Afrikaans – 'n viering*. Die boek, onder redaksie van prof. Angelique van Niekerk, Hennie van Coller en Bernard Odendaal, is by die UV bekend gestel. “Die publikasie bevat uiteenlopende bydrae en gee ’n

omvattende oorsig van die verskillende soorte navorsing in Afrikaanse letterkunde en taalkunde. Van kreatiewe skryfwerk en biografieë, tot leksikografie en sosiolinguistiek word hierin aangepak,” sê Van Niekerk, departementshoof. Die publikasie, wat deur Sun Media uitgegee word, is moontlik gemaak deur ’n geldelike skenking van die Suid-Afrikaanse Akademie vir Wetenskap en Kuns. Vir meer inligting oor die boek, bel die departement by 051-401-2816.



PUBLIC PARTICIPATION PROCESS / TSEBETSO YA HO NKA KAROLO SECHABANG
 Notice is hereby given of applications under the National Water Act 36 of 1998 (“NWA”) and the National Heritage Resources Act 25 of 1999 (“NHRA”) for a water use license (“WUL”) in terms of Section 21(g) of the NWA and a permit in terms of Section 38(1) of the NHRA (Section 38(1) Permit Application) for the following activities:

- WUL: NWA Section 21(g) Water Use - Disposal of waste or water containing waste in a manner which may have a detrimental impact on a water resource; and
- Section 38(1) Permit Application: NHRA Section 38(1) development - Development / activity which will change the character of a site exceeding 5000m² in extent.

Project: Rehabilitation of the historically mined pit (“PIT”) in Jagersfontein by infilling tailings from the process plant of the Jagersfontein diamond extraction operation into the Pit.

Projek: Ntshafano ea ke ya mohope o neng o enoae ke natane ka ho fokotsa litsoants ho semea ka tsebetso ea tsebetso ea ho lisa daemane ea Jagersfontein.

Applicant / Makopt: Jagersfontein Developments (Pty) Ltd

Any interested parties are welcome to a public meeting to discuss the project and raise comments / Seljha base mengwa kopanong ho lisa bulana ka moreo o na:

Date / Letsatsi: Saturday, 16 November 2019 / Moqebelo, 16 Ntshwane 2019

Time / Nako: 10:00

Venue / Sebaka: Mayibuye Hall, Bumleng, Jagersfontein

The Report is available for review at the Jagersfontein Library. Should you have any comments on the project and to ensure that you are included as an interested and/or affected party, please submit your name, contact information and interest in the matter to the environmental consultant by **5 December 2019** / Tlaleho e ea fumaneha Jagersfontein laebrating. Haeba o na le maikutlo le ho ne letlaba hore o kenyele boe e le molho ea nang le thahaselo, ka kopa lisa letlaba la hau, thabo-tseleng ea puoano le thahaselo eaprojekthe ho baetiisi ba tekoiso ka ka 5 Tshitwe 2019.

Turn 180 Environmental Consultants:
 Suite 221, P/Bag X01, Branchhof, Bloemfontein, 9324
 Contact person: Lous De Villiers - 072 967 7942
 Email: adm@turn180.co.za



Spiders to look out for. From the left are, top: House sac spider, violin spider; middle: rain spider; bottom: brown button spider and black button spider.

Photos: Charles Haddad

Be spider savvy this summer

Khumisho Dithebe

The warm summer days bring with them creepy crawly spiders. According to Jan Andries Neethling, arachnologist in the Arachnida Department at the National Museum in Bloemfontein, South Africa has approximately 2 300 described species of spiders – most of which are minute or occur in specific habitats. Spiders bite as a defensive mechanism and their bites, which cause a burning sensation like that of a mosquito, usually do not require medical attention. Exceptions are the bite of the house sac spider, the violin spider

Violin spiders are scarce in Bloemfontein as they are mostly confined to veld areas, but they have occasionally been found in cupboards, under furniture and in garages. Sac and violin spiders have a cytotoxic venom (breaks down tissue around the bite area) and a bite can result in the formation of a blister wound that may get infected. Black and brown button spiders have a neurotoxic venom (causes muscle pain and cramps) and their bites hurt more than that of the sac and violin spiders, with an antivenom required for the black button spider bite.

long after the spider is gone. “Our emergency centre sees around two patients a week with suspected spider bites. Tetanus booster injections are given after receiving an indication of a suspected spider bite,” says Erasmus. Erasmus indicates that when severe reactions or wound infections result, patients are treated with antibiotics, antihistamines or cortisone. While a bite from a brown button spider will not require hospitalisation, black button spider bites require hospitalisation and support for the cardiovascular system. Neethling advises residents to

KOM KUIER SAAM MET

3 VAN DIE BESTE

KRIMI-SKRYWERS IN SA,

ALMAL OUD-KOERANTJES VAN VOLKSOGLAD.




Site Notices



Figure 1: Site notices placed at entrance to Jagersfontein Developments site on 1 November 2019



Figure 2: Site notice placed on fence at the Jagersfontein pit, inside the Jagersfontein Developments' site



Figure 3: Notice placed at the old museum and gantry.



Figure 4: Notice placed at the Fauresmith road entrance to the site.



Figure 5: Close-up of notice placed near the site on 1 November 2019.



Figure 6: Notice placed at the Post Office in Jagersfontein on 1 November 2019.



Figure 7: Notice placed on the Jagersfontein police station's notice board.



Figure 8: Notice at the Jagersfontein Library. A copy of the IWWMP and cd's thereof were also left at the library for review.



Figure 9: Notice placed at the entrance to the Itumeleng clinic.



Figure 10: Notice placed at SASSA offices in Charlesville, Jagersfontein.

Mailables



PUBLIC PARTICIPATION PROCESS / TSEBETSO YA HO NKA KAROLO SECHABANG

Notice is hereby given of applications under the National Water Act 36 of 1998 ("NWA") and the National Heritage Resources Act 25 of 1999 ("NHRA") for a water use license ("WUL") in terms of Section 21(g) of the NWA and a permit in terms of Section 38(1) of the NHRA ("**Section 38(1) Permit Application**") for the following activities:

- WUL: NWA Section 21(g) Water Use - Disposal of waste or water containing waste in a manner which may have a detrimental impact on a water resource; and
- Section 38(1) Permit Application: NHRA Section 38(1) development – Development / activity which will change the character of a site exceeding 5 000m² in extent.

Project: Rehabilitation of the historically mined pit ("Pit") in Jagersfontein by infilling tailings from the process plant at the Jagersfontein diamond extraction operation into the Pit.

Projekte: Ntlatso ea ke ya mohope o neng o entsoe ke nalane ka ho fokotsa lits'oants ho semela ka tsenetso ea tsebetso ea ho tlosa daemane ea Jagersfontein.

Applicant / Mokopi: Jagersfontein Developments (Pty) Ltd

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Any interested parties are welcome to a public meeting to discuss the project and raise comments / Setjhaba se mengwa kopanong ho tla buisana ka morero o na:

Date / Letsatsi: Saturday, 16 November 2019 / Moqebelo, 16 Pudukwane 2019

Time / Nako: 10:00

Venue / Sebaka: Mayibuye Hall, Itumeleng, Jagersfontein

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The Report is available for review at the Jagersfontein Library. Should you have any comments on the project and to ensure that you are included as an interested and/or affected party, please submit your name, contact information and interest in the matter to the environmental consultant by **5 December 2019** /

Tlaleho e ea fumaneha Jagersfontein laebraring. Haeba o na le maikutlo le ho netefatsa hore o kenyelletsoe e le motho ea nang le thahasello, ka kopa tlosa lebitso la hau, tlhaiso-leseling ea puisano le thasello ea projekte ho baeletsi ba tekoloho ka la 5 Tshitwe 2019:

**Turn 180 Environmental Consultants:
Suite 221, P/Bag X01, Brandhof, Bloemfontein, 9324
Contact person: Louis De Villiers - 072 967 7962
Email: admin@turn180.co.za**





Figure 11: Maildrops / flyers handed out in town on 1 November 2019.



Figure 12: View of one of the houses in Itumeleng where maildrops were distributed. 3000 maildrops were distributed.



Figure 13: View of one of the houses in Itumeleng where maildrops were distributed.



Figure 14: Maildrops being delivered in Charlesville on 1 November 2019.

Background Information Document (BID)



PUBLIC PARTICIPATION PROCESS: NOTICE OF APPLICATIONS FOR A WATER USE LICENSE AND SECTION 38(1) NHRA PERMIT BACKGROUND INFORMATION DOCUMENT ("BID")

DATE: 1 November 2019

Purpose of this document

The main purpose of this BID is to summarise the activities that will be associated with the proposed rehabilitation (the "**Proposed Project**") by Jagersfontein Developments (Pty) Ltd ("**JD**") (the "**Project**") of the historically mined pit ("**Pit**"), situated on Portion 15 of the Farm Jagersfontein 14 IS, Fauriesmith District, Xhariep District Municipality, Free State ("**Farm Jagersfontein**"). JD owns Portion 15 of the Farm Jagersfontein ("**Portion 15**").

This BID also provides stakeholders and / or identified Interested and Affected Parties ("**I&APs**") with the opportunity to comment on the Proposed Project and to indicate their interest.

Proposed Project Description

Applications will be submitted to obtain a permit from the South African Heritage Resource Agency ("**SAHRA**") in terms of Section 38(1) of the National Heritage Resources Act, 1999 (Act No. 25 of 1999) ("**NHRA**") and a Water Use Licence ("**WUL**") in terms of Section 21(g) of the National Water Act, 1998 (Act No. 36 of 1998) ("**NWA**") respectively to rehabilitate the Pit by infilling it with fine tailings suspended in water and coarse tailings ("**Backfill Materials**") generated from JD's existing operations ("**Tailings Operations**") at its diamond extraction plant (the "**Plant**"). The applications will include the following:

- Civil Engineer Design Drawings and Report;
- IWWMP;
- Waste Classification;

- Geohydrological assessment and modelling reports;
- A motivation and formal application to SAHRA;
- A Heritage Impact Assessment; and
- Socio-economic Impact Assessment.

The Pit was formed in the 1870s when the Farm Jagersfontein was proclaimed a public digging. It is the biggest hand-excavated hole in the world and, given its historical value, is a heritage resource under section 3 of the NHRA. The Pit has however not been given any formal protection by the SAHRA or Free State Heritage Resources Authority ("**FSHRA**") under the NHRA. SAHRA and the FSHRA will be notified of the Project and a permit application submitted to SAHRA in terms of section 38(1) of the NHRA.

The Pit is unstable, breaking-back and poses vibration risks. Tourism is therefore not a viable option at the Pit, as the Pit needs to be fenced off and access prohibited due to safety reasons. JD has appointed a geotechnical and structural engineering specialist, who has undertaken extensive assessments and confirmed that the use of the Backfill Materials to rehabilitate the Pit is the only viable way to ensure the Pit's stability and eliminate risks to surrounding residents in the long term. Furthermore, it was also established from geohydrological modelling that the Project will have the lowest impact on groundwater in the shallow aquifer (which is economically exploitable by adjacent landowners), if mitigation measures are implemented. The Project will also clear and rehabilitate the surface area to be used for other land uses by the community or municipality. Other alternatives considered are indicated in the section called '*Alternatives*'.

JD's Operations at the Plant consist of reprocessing eleven tailings dumps, where the tailings from historic diamond mining operations have been discarded. Currently JD's Operations utilises the existing Fine Tailings Storage Facilities ("**FTSF**") for storage of the Backfill Material generated by the Plant. Tailings from the plant are returned to the existing footprints from where the tailings were removed and are also used to stabilise the FTSF's walls.

However, it was determined that the Backfill Material can be utilised to rehabilitate the Pit through backfilling. This will improve the Pit's stability and ensure the long-term safety of people, property and other structures in the area. Apart from the improvement of the break-back, the removal of the surface tailings from the surface of the surrounding environment and backfilling it into the Pit will lower the impacts of pollution in the surrounding environment and improve land use.

The total volume of tailings still to be processed on the surface of the Tailings Operation is approximately 36 Million tons ("**MT**"), of which 25.6 Million cubic metres ("**Mm³**") will be tailings backfilled into the Pit. It is expected that the Pit will be filled to a depth of approximately 30 meters

below ground level ("**mbgl**"). From a historical and tourism viewpoint, the unique geology of the Pit will still be observable once operations cease.

Backfilling the Pit with tailings is considered the only sustainable rehabilitation option. Rehabilitating the Pit will likely lessen the groundwater impacts currently caused by presence of the tailings on the surface of the properties used for JD's Operation ("**JD Properties**"). It will also remove all current tailings from the surface of the JD Properties, enabling more effective rehabilitation and creating the potential for agriculture on the JD Properties. Currently, no land use activities can be undertaken on Portion 15. Once most of the Pit has been backfilled, Portion 15 can be marketed as a tourism attraction, to be viewed and enjoyed by the Jagersfontein community members and the public. It will also retain its heritage value, as the rim of the original Pit will still be visible with a void of approximately 30mbgl and a surface footprint of 19.5ha.

Locality

The activity will occur on Portion 15 of the Farm Jagersfontein. Please refer to the attached locality map.

Alternatives

The only other feasible alternative to the Project is keeping the entire Pit fenced-in, to prevent people and animals from entering the area surrounding it. The Pit's instability will however persist, with the risk that vibrations and break-back of the Pit's walls might injure persons, or cause damage to surrounding structures and the fence itself. Furthermore, the existing environmental degradation will compound if the Pit is left in its current state. The risk will also remain that people will still be able to obtain access to the Pit, if the fence is vandalised.

Relevant legislation

The following licenses will be applied for:

- *Application for WUL ("**WULA**") for the following water use listed in the NWA:*
 - Section 21(g) - disposal of waste or water containing waste in a manner which may have a detrimental impact on a water resource; and
- *Application for a permit in terms of Section 38(1) of the NHRA ("**Section 38(1) Permit Application**"):*

- Undertaking a development / activity which will change the character of a site exceeding 5000m² in extent.

The process will include the following:

- WULA;
- Section 3(1) Permit Application;
- Public Participation Process; and
- Specialist studies.

The environmental consultant is Turn 180 Environmental Consultants: Suite 221, P/Bag X01, Brandhof, Bloemfontein, 9324; or contact Louis De Villiers at: 072 967 7962 (Tel) or admin@turn180.co.za

To ensure that you are identified as an interested and/or affected party and to request reports, please submit your name, contact information and interest in the matter to the contact person given above within 30 days of the date on this notice.

Socio-economic baseline data collection

The decision whether to authorise JD to rehabilitate the historically mined pit requires SAHRA considering both the heritage value of the Pit, and also the social and economic impacts of backfilling the Pit.

In support of the application by JD to SAHRA, SES Consulting ("SES"), an independent consultancy, will prepare a SEIA that considers both the positive and negative socio-economic impacts of the Project. This requires SES gathering socio-economic baseline data in the communities of Jagersfontein, Itumeleng and Charlesville.

Households in these communities will be randomly selected to participate in a household survey taking place between the **11th and 15th November**. The information collected during the household survey will assist SES with preparing the SEIA, and determining socio-economic impacts of the Project.

Information collected will be treated as highly confidential, and only used for the purpose of preparing the SEIA.

Public participation

The above-mentioned project will be presented at a public meeting at the **Mayibuye Hall** in Itumeleng, Jagersfontein on **16 November 2019** at **10:00 am**. The meeting will be held, and a platform will be provided to allow attendees to raise comments regarding the project. Please note that a hard copy and a cd containing the Integrated Water and Waste Management Plan is available for

public review at the Jagersfontein Library from 1 November 2019. It is requested that neither the document nor cd leave the facility to allow other members of the public to review the document. The public is requested to copy the contents of the cd to their personal devices for private review. An electronic copy of the document is also available at Turn 180 Environmental Consultants on request. **Kindly submit any comments on the project to Turn 180 Environmental Consultants by 5 December 2019.**

We trust that you will find the above-mentioned information in order.



Regards

Louis De Villiers

Turn 180 Environmental Consultants

BID and IWWMP Distribution

Courier waybill to Department of Mineral Resources

 Worldwide Express We would love to handle your package		HEAD OFFICE: P O Box 532 Lanseria 1748		Sharecall No.: 0861 203 203 Fax: 086 843 3385 After Hours: 082 823 3254		 TCG18617662																
ACCOUNT NO. (Very Important)	CLIENT REFERENCE	NO. OF PARCELS	MASS	VOLUME	ORIGIN	DEST.	OFFICE REFERENCE															
Contact Name: <u>Mr. K. Kewuli</u> Contact Phone Number (Very Important): <u>011 3711385</u>				To (Contact Name): <u>Dept. of Mineral Resources</u> Contact Phone Number (Very Important): <u>011 3711385</u>																		
Company Name: <u>Dept. of Mineral Resources</u>				Company Name: <u>Dept. of Mineral Resources</u>																		
Street Address: <u>314 Gateway Road</u>				Exact Street Address (We cannot deliver to Box Numbers): <u>The Strip Building</u>																		
City: <u>Durbanville</u> Country: <u>SA</u> Postal Code: <u>7801</u>		City: <u>NELKOM</u> Country: <u>SA</u> Postal Code: <u>7801</u>																				
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By virtue of the client's signature hereto, the client acknowledges having read, understood, and agreed to be bound by the standard conditions of carriage of The Courier Guy (Pty) Ltd., which standard conditions are annexed hereto.				INSURANCE Y <input type="checkbox"/> N <input type="checkbox"/> (ONLY DECLARE VALUE IF YES) DECLARED VALUE R				CHARGES: <u>88</u>														
CLIENT SIGNATURE: <u>[Signature]</u>				RECEIVED BY THE COURIER GUY (Pty) Ltd.: <u>[Signature]</u>				RECEIVER'S SIGNATURE: _____				DATE: <u>1 / 1 /</u>										
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REGISTRATION NUMBER: 2018/110720/07

4 November 2019

APPLICATION FOR A WATER USE LICENSE IN TERMS OF SECTION 21(G) OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998) FOR THE REHABILITATION OF THE HISTORICALLY MINED PIT ON PORTION 15 OF THE FARM JAGERSFONTEIN 14 IS, FREE STATE

By signing the table below you confirm receipt of the Background Information Document ("BID") and a cd containing the Integrated Water and Waste Management Plan ("IWWMP") with all the information relating to the water use license application.

Name	Company / Department	e-mail address	Tel	Signature
L. PHILIP	FS PHRA			
R. Khan	DMPL	raheem.speckelberg@dmpl.co.za	078977287	
S. Masoob	DESTER	Masooeb@destersyn.co.za	0514004817	
S. Mthuli	DWS: Regulation	mthulisiz@des.gov.za		
M. Coetzer	DM Superstore	manujnr@diy.superstore.co.za	051-4050700	
M. A. Kelepu	Kepong LM	mkepong@ppr.co.za	0648749570	
M. Baas	KOPANONG L: M	Moebetsibaas@gmail.com	0825782278	
M. Keswin	XDM: EHT	xchariepc@ppr.com	0721478618	
P. Manuwe	XDM: EHP	Potlamanoo@gmail.com	0716716535	


For MM



Email with BID

Water Use & SAHRA Applications for Jagersfontein Pit infilling

Admin Turn180 <admin@turn180.co.za>
 To: 'louis@turn180.co.za'
 Cc: 'margrietecronje@gmail.com'
 Bcc: 'lucas@wgkconstruction.co.za'; 'midkopsimbras@gmail.com'; 'hugo.hamman@sasol.com'; 'johan.vantonder@qlencore.co.za'; 'yvontonder@outlook.com'; 'jormasch@gmail.com'; 'marianne@tumuleng-trust.co.za'; 'gillianvermaak@gmail.com'; 'stephan.vanwyk@petradiamonds.com'; 'senguyekhwantini123@gmail.com'; 'khobo92@gmail.com'; 'jagersfonteintruth@gmail.com'

 Jagersfontein Pit Rehabilitation BID.pdf
152 KB

Reply Reply All Forward

Tue 2019/11/05 8:13 AM

Dear Interested and Affected Party

With reference to the applications for a Water Use Licence in terms of Section 21(g) of the Water Act 36 of 1998 and Section 38(1) of the National Heritage Resources Act 25 of 1999 for the rehabilitation of the historically mined pit on Portion 15 of the Farm Jagersfontein 14, Fauresmith Rd, Free State, by infilling tailings from the process plant at Jagersfontein Developments (Pty) Ltd diamond extraction operation into the pit, the following:

Please find attached the Background Information Document ("BID") for the above mentioned project.

The Integrated Water and Waste Management Plan ("IWWMP") is also available and can be viewed at the Jagersfontein Library. Alternatively, please contact us to arrange for an electronic copy.

Should you have any comments on the project, kindly send them to us by **Thursday 5 December 2019**.

A public meeting will be held on Saturday 16 November 2019 at 10:00 at the Mayibuye Hall in Itumeleng, Jagersfontein, which you are welcome to attend.

We trust you find the above in order. Please do not hesitate to contact us if you require any additional information.

Regards

SMS notification

4 PEOPLE



Add people



082 435 7858



082 717 4521



083 455 1369



083 687 7681

Wednesday, 06 Nov • 08:35

You created this group MMS with 082 717 4521 and 3 others

Dear Interested and Affected Party. You are hereby notified of Applications for a Water Use Licence and a Heritage Permit for the rehabilitation of the historically mined pit in Jagersfontein by infilling with tailings. A report is available for review in the Jagersfontein Library. If you have any comments or would like to register as an interested party, please contact us at: louis@turn180.co.za or [072 9677962](tel:0729677962) by [6 December 2019](#).
Regards Louis de Villiers
(Turn180 Environmental Consultants)

Meetings



REGISTRATION NUMBER: 2018/110720/07

MINUTES OF MEETING

MEETING HELD AT KOPANONG LOCAL MUNICIPALITY OFFICES IN TROMPSBURG ON 6 NOVEMBER 2019 AT 10:00 WITH REGARD TO THE APPLICATION FOR A WATER USE LICENCE IN TERMS OF SECTION 21(G) OF THE NATIONAL WATER ACT (ACT 26 OF 1998) FOR THE REHABILITATION OF THE HISTORICALLY MINED PIT ON PORTION 15 OF THE FARM JAGERSFONTEIN 14 IS, FAURESMITH DISTRICT, FREE STATE

Meeting attended by: See attached attendance register

No	Person	Description
1.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	The Municipal Manager has another meeting to attend, so he was briefed on the project before the meeting formally commences.
2.	Mr. N. Kelepu (Kopanong Municipality's Municipal Manager)	Mr Kelepu is concerned of the real motive behind the backfilling of the pit and compares it to Kimberley's hole and mine heaps, He states that the project doesn't make sense and his feeling is to focus on tourism capabilities instead.
Mr Kelepu leaves to attend another meeting with the BID and CD of the IWWMP containing more information on project.		
3.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Everyone is welcomed to meeting and given and chance to introduces themselves.
4.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	The project is explained and what is proposed with regard to the rehabilitation of the Jagersfontein Pit.

		<p>The reasons the pit needs to be rehabilitated by infilling include:</p> <ul style="list-style-type: none"> • Safety risk – the pit is no longer accessible to the public and also needs to be stabilized. The break back of the pit is approximately 1m per year. • The life expectancy of the existing slimes dam is not long and the use thereof needs to cease and a new Fine Tailings Storage Facility ("FTSF") would need to be built. A new FTSF would take up approximately 100ha of land and available land is limited. • The cost of a new slimes dam is R80-100 million. • Dust would also be generated with a new FTSF. <p>The pit is 236m deep.</p> <p>Dr Graham Howell was appointed to advise on how to backfill the pit. It is proposed to protect the aquifer by first infilling with coarse tailings. The coarse tailings will be conveyed on a conveyor belt from the processing plant into the pit. This will take approximately 4 – 6 months until a buffer is formed.</p> <p>Thereafter infill from the fine tailings paste will be discharged into the pit through pipes up to 30 – 60m from the top. This also protects the shallow aquifer.</p> <p>The SAHRA permit application is also in process because the Jagersfontein Pit is a heritage site.</p> <p>A Socio-economic Impact Assessment is also currently underway and Tandi Kolbe will be in contact.</p>
5.	Me. Keswa (Xhariep District Municipality: Environmental Health)	Me. Keswa enquires about the alternatives.
6.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Mr de Villiers explains that the pit infilling option is as a result of evaluating other alternatives. The no-go alternative would result in JD ceasing operations, as a new FTSF is not financially nor environmentally viable.
7.	Mr. Moselesele (DEFF: Local Government Support)	Clarifies that it is the historically mined pit to be filled.

8.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Confirms it is the historically mined pit.
9.	Me. Keswa (Xhariep District Municipality: Environmental Health)	Advises that the "why" behind the project may be complex for the community to understand.
10.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	It is explained that the tailings operation employs 190 people and there won't be many, if any new jobs created with the infilling process. There is also the Itumeleng Trust, which is there to assist the community.
11.	Mr. Baas (KLM: Office of the Municipal Manager)	Mr. Baas states that from the perspective of the Municipality there should be other alternatives apart from the historic pit filling option, perhaps a new hole could be made and used.
12.	Mr. Moselesele (DEFF: Local Government Support)	Responds to Mr. Baas that a new hole would not be possible due to the environmental impact and practical considerations.
13.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Explains to Mr. Baas that JD wants to liaise with the Municipality for projects and to establish a better relationship with them. Any complaints received should also be forwarded to him.
14.	Mr. Moselesele (DEFF: Local Government Support)	Mr. Moselesele brings up that JD was using tailings to fix roads, which was causing dust.
15.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Notes comment on dust and explains that the tailings are not a good option for roads, as they are dispersive.
16.	Me. Keswa (Xhariep District Municipality: Environmental Health)	Me. Keswa asks how long the infilling process will take.
17.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Me. Keswa is referred to the SRK Report on the CD she has been given for all the detail on the infilling process.
18.	Mr. Louis de Villiers (Turn 180 Environmental Consultants)	Attendees are thanked and the meeting is adjourned.



TURN180
ENVIRONMENTAL CONSULTANTS

REGISTRATION NUMBER: 2018/110720/07

6 November 2019

ATTENDANCE REGISTER

MEETING HELD AT KOPANONG LOCAL MUNICIPALITY OFFICES IN TROMPSBURG AT 10:00 WITH REGARD TO THE APPLICATION FOR A WATER USE LICENSE IN TERMS OF SECTION 21(G) OF THE NATIONAL WATER ACT, 1998 (ACT NO. 36 OF 1998) FOR THE REHABILITATION OF THE HISTORICALLY MINED PIT ON PORTION 15 OF THE FARM JAGERSFONTEIN 14 IS, FAURESMITH DISTRICT, FREE STATE

Name	Company / Department	e-mail address	Tel	Signature
Khululeko Kelepu	KOPANONG LM	mkelepu@kopanong.gov.za	083 394 9824	
MICKELANG KOSMA	AMNIP D.M	amnip@chp.co.za	0121478518	Mickel.
Portia Manloe	AMNIP D.M	portiamanloe@gmail.com	0716774535	
Magalo Tshepo	KOPANONG LM	tshepo@kopanong.gov.za	0749948641	
MOKETSI BAAS	KOPANONG LM	moketsibaas@gmail.com	0825784278	
JABO MATHABANE TSHIHO MOSESELE	KOPANONG LM SERV. ENV. FORESTRY FISHERIES - LOCAL CONSULTANT	mabane@kopanong.gov.za tshihomathabane@gmail.com	0799510146 0839445522	



MINUTES OF MEETING

MEETING HELD AT THE MAYIBUYE HALL IN ITUMELENG, JAGERSFONTEIN ON 26 NOVEMBER 2019 AT 13:00 TO DISCUSS THE REHABILITATION / INFILLING OF THE JAGERSFONTEIN PIT AND PROVIDE FEEDBACK ON THE SOCIAL IMPACT ASSESSMENT

Meeting attended by: See attached attendance register

The meeting started at 13:30 to allow for more attendees to join.		
No	Person	Description
1.	Marguerite Cronje (Turn 180 Environmental Consultants)	Welcomes attendees.
2.	Surprise Xhwantini (attendee)	Opens meeting with prayer.
3.	Marguerite Cronje (Turn 180 Environmental Consultants)	Presentation on proposed backfilling and rehabilitation of the Jagersfontein Pit.
4.	Comment	Is the Ward Councillor aware of the project?
5.	Marguerite Cronje (Turn 180 Environmental Consultants)	Yes. He is currently at a council meeting in Trompsburg. There was also a meeting held at KLM” between Turn 180, KLM and Xhariep District Municipality.
6.	Comment	Will the pit be filled by 60% and will the museum be re-established?
7.	Marguerite Cronje (Turn 180 Environmental Consultants)	Yes, the option to reopen the museum will be investigated if the Jagersfobtein Pit is stable. The Pit will be filled to 30-60m below ground level.
8.	Tandi Kolbe (SES Consulting)	Presentation on Socio-economic Assessment, providing feedback on baseline data collection.
9.	Comment	Has the survey been completed?

10.	Comment	The survey was done incorrectly. The community meeting should have been held first. One cannot only survey 70 households. All households must be surveyed. If the Pit is filled it will not be a heritage site.
11.	Tandi Kolbe (SES Consulting)	An estimated 10% of the community were surveyed. A survey is unlike a census. One can get an indication of a community by surveying a sample of the community.
12.	Comment	How was survey conducted? How were houses to survey chosen?
13.	Tandi Kolbe (SES Consulting)	Households in Jagersfontein, Itumeleng and Charlesville were randomly selected. In bigger communities more households were surveyed. For example, Charlesville is the smallest area, and only required 9 / 10 households being surveyed, while other areas required more households being surveyed. Unfortunately a map showing the households surveyed can't be shown because these households need to remain anonymous.
14.	Comment	The survey only included specific people.
15.	Tandi Kolbe (SES Consulting)	The Ward Councillor was approached to assist with appointing four fieldworkers to undertake the survey. These fieldworkers were trained and will also receive certificates.
16.	Comment	Were the fieldworkers local?
17.	Tandi Kolbe (SES Consulting)	Yes. All four fieldworkers were from Itumeleng.
18.	Comment	I was phoned by Thabo (Thabo Matras of SES Consulting), but he didn't answer all my questions on the operations.
19.	Tandi Kolbe (SES Consulting)	Possibly Thabo did not have all the information or the answers to some of the questions you asked. We are independent consultants, and do not represent JD.
20.	Comment	Is anyone taking minutes? This is a formal meeting.
21.	Tandi Kolbe (SES Consulting)	Yes. Louis and Marguerite from Turn 180 Environmental Consultants are taking minutes.
22.	Comment	When were the employment figures for the construction phase of the backfilling Project requested from JD?

23.	Tandi Kolbe (SES Consulting)	A week ago.
24.	Comment	There is no trust between the community and JD. Tourism should be created, like with Kimberley.
25.	Tandi Kolbe (SES Consulting)	If the SAHRA permit is approved, the Pit will be stabilised, thereby improving safety and access, and possibly tourism can be promoted as an offset to backfilling the Pit with tailings.
26.	Comment	Why are Wolmaransstad and Mogwase figures not included? Employment figures are incorrect.
27.	Tandi Kolbe (SES Consulting)	Will check with JD how many employees are employed from these areas.
28.	Comment	The Pit should be left as is and as there are so few employed locally by JD, the people from outside can lose their jobs – it wont make a big difference to us.
29.	Comment	JD cannot be trusted. JD will not follow through on their promises.
30.	Comment	How much money is there in Itumeleng Trust?
31.	Tandi Kolbe (SES Consulting)	We do not know financial details about the Trust.
32.	Comment	Where will the tailings come from?
33.	Tandi Kolbe (SES Consulting)	The remaining tailings dumps (indicated on map).
34.	Comment	Why don't they fix the current slimes dam? What if floods occur?
35.	Comment	Where does the 10% for the Itumeleng Community Trust come from?
36.	Tandi Kolbe (SES Consulting)	Explains that her understanding is that 10% of JD's profit annually would go to the Trust. These would be dividends,.
37.	Comment	Please check the figures of the Trust.
38.	Comment	Will JD and its Trust ever come and talk directly to the community? A third party might not provide the proper feedback. The community doesn't know any of the financial figures. The best way would be to show bank statements to prove themselves.
39.	Comment	The Trust must come forward.
40.	Comment	There is no access to information on the Trust and mining operations.

41.	Comment	Why is JD's operation not a mine? Why is there no mining right?
42.	Louis De Villiers (Turn 180 Environmental Consultants)	Explains that JD is processing old dumps and therefore a mining right is not required. He refers to the De Beers vs Atequa court judgement.
43.	Comment	De Beers handed over the Remainder of the Farm Jagersfontein to the Municipality.
44.	Louis De Villiers (Turn 180 Environmental Consultants)	Explains that his understanding is that JD bought the tailing dumps from De Beers as a movable asset and it is therefore the property of JD. He again refers to the Atequa judgement.
45.	Comment	Judgement was for a portion of the farm and not for the Remainder.
46.	Louis De Villiers (Turn 180 Environmental Consultants)	Provides clarity on the heaps and explains that after 2014 "heaps" would fall under the Waste Act definition.
47.	Comment	Tourism is important and I would love to see the Pit and tourism industry in Jagersfontein revived. The "big persons" must come to the party to promote Jagersfontein.
48.	Comment	The negative impacts listed on the presentation are only SES' views.
49.	Tandi Kolbe (SES Consulting)	The negative impacts listed will be the social impacts if JD shuts down. One needs to consider the impacts if JD can't fill the Pit.
50.	Comment	Job creation for local residents is very important.
51.	Comment	Feels like JD is threatening us by presenting negative impacts if the Pit is not filled.
52.	Tandi Kolbe (SES Consulting)	Explains that, as the consultant, she must list the positive and negative impacts of the project and the impacts if the Project doesn't happen.
53.	Comment	It will be wise to have negative impacts if the Pit is not filled in (the SEIA) report. According to the employment statistics, JD only employs 82 people, compared to 85% unemployed in the community. Let them focus on the development of Jagersfontein. Bring Municipality on board to get land for a new fine tailings storage facility and create jobs.

54.	Comment	JD needs to come to the community.
55.	Comment	Let JD not first say "we must dance" before they do things for the community. JD is not willing to see the community.
56.	Comment	We want to know if we allow them to fill the Pit, what additional jobs will be created.
57.	Tandi Kolbe (SES Consulting)	Enquires whether meeting participants feel that if the Pit is filled, it will destroy tourism? Also asks whether anyone present has actually been to the pit (one person raises his hand).
58.	Comment	If marketed, Jagersfontein can be a tourist destination.
59.	Comment	Why not get more land for a new FTSF and leave the Pit alone?
60.	Marguerite Cronje (Turn 180 Environmental Consultants)	Explains that it is not just the availability of land that is a concern, but a new FTSF also has environmental concerns that need to be considered.
61.	Comment	Growing up in Jagersfontein, we know that the Pit belonged to the Municipality and if it is filled it is putting to waste a pit that gave birth to Kimberly and Koffiefontein.
62.	Tandi Kolbe (SES Consulting)	The other ways to rehabilitate the Pit include the use of very large beams, that will also alter the Pit visually.
63.	Comment	We'd like to see the financials.
64.	Comment	Personally feels that JD should shut down, and that a new black empowered company with better community values should start operating in the area.
65.	Tandi Kolbe (SES Consulting)	Enquires whether it's the community's opinion that the no-go option might be negative to JD, but is potentially positive for the community?
66.	Comment	JD has not appointed black consultants and are not using the services of black professionals. You appointed a black consultant to assist you, but does he have shares in your company?
67.	Tandi Kolbe (SES Consulting)	Explains that Thabo Matras is part of her team, but is still gaining experience.
68.	Comment	It's all about attitude that needs to be changed. Don't have a problem with JD, just their attitude. It would help if we could get those people (JD) to talk to us.

69.	Comment	JD should come with the Municipality and the Department of Tourism.
70.	Comment	The diamond processing plant does not practice social responsibility. Look at the roads, they (JD) have the trucks and equipment, but give nothing back. Employing 82 people from the local community is nothing.
71.	Comment	Why aren't they (JD) investing in the community?
72.	Comment	Handing pit to SAHRA could create more tourism jobs.
73.	Comment	JD should have a black partner.
74.	Comment	If a new operation comes, it would have to fall under new laws and need a social and labour plan.
75.	Comment	Is it possible to get copy of the Socio-economic Assessment Report?
76.	Tandi Kolbe (SES Consulting)	Yes. It is a public document and a copy will be made available in the Jagersfontein Library.
77.	Comment	What about the Water Use Licences?
78.	Louis De Villiers (Turn 180 Environmental Consultants)	Explains that there are different types of water uses, for example: impeding the flow or altering the beds of a watercourse. The project includes the "disposal of waste" in terms of the National Water Act, hence the submission of an IWWMP. The IWWMP is currently in the Jagersfontein Library and contains detailed information, like the engineers report and a model of a new FTSF vs backfilling of the Pit.
79.	Comment	JD needs to engage community. The majority of the community will not attend meetings and are not interested. The people present today are good representatives for the community.
80.	Tandi Kolbe (SES Consulting)	Enquires whether the participants at the meeting feel that the comments raised at the meeting are representative of how the community feels about the Project.
81.	Comment	Can a feasibility study be done (for tourism initiatives)?
82.	Tandi Kolbe (SES Consulting)	This is dependant on funding for such studies.
83.	Comment	Maybe there is funding available in the Itumeleng Trust.

84.	Tandi Kolbe (SES Consulting)	A tourism assessment will most likely be part of the Heritage Study. SAHRA's process will therefore look at the tourism potential of the Pit.
85.	Comment	Information needs to be shared, especially on alternatives to infilling the Pit.
86..	Louis De Villiers (Turn 180 Environmental Consultants)	A new FTSF was designed in concept and one can have a look at it in the IWWMP.
87.	Comment	Access to information is very important. Information must be shared.
88.	Tandi Kolbe (SES Consulting)	Everyone is thanked for their participation, especially for the valuable and honest discussions held.
The meeting adjourns at 15:35.		



ATTENDANCE REGISTER

Community meeting held at the Mayibuye Hall in Ithumeleng, Jagersfontein on Tuesday, 26 November 2019 at 13:00 with regard to the rehabilitation of the historically mined pit in Jagersfontein by infilling tailings from the process plant at the Jagersfontein diamond extraction operation into the Pit.

Name & Surname	Telephone Number	Signature
ZAF JAMALUDEEN	0843515880	
Mafo Mofoti	019 837 3761	
Sello Mofokoe	081714667	
Ithumeleng Mofokoe	0769914245	
Mokgosi	0812736871	
Suprise Mwaantini	076 365 2640 061 365 0141	
Koana Tselo Tselo	0632074812 0721391353	
KABEU LEBONA	0789618380	
MEREKI MOREKI	0790141179	
MALIAS MANALG	0848306793	
Selo Ntshane	mmutla99@gmail.com	
PATRICK MOETI	0188 44 666 8	
Jabubani Macala	0736706315	



1



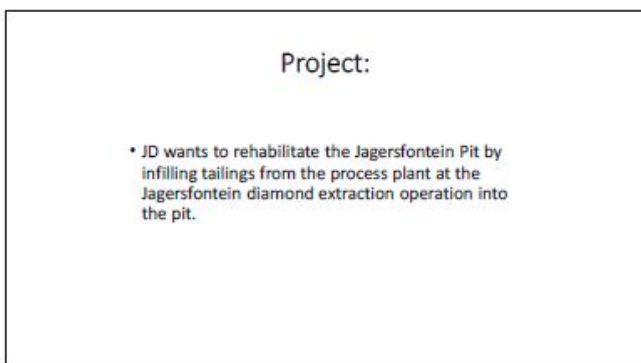
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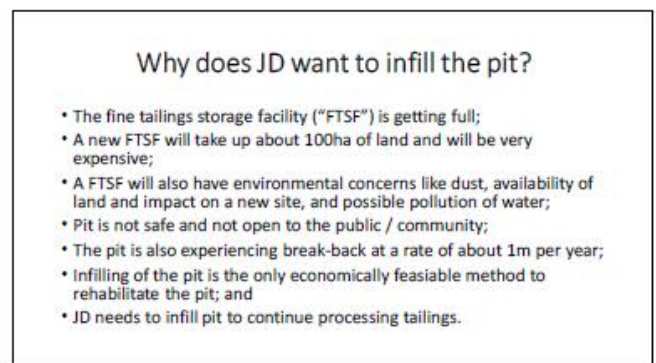
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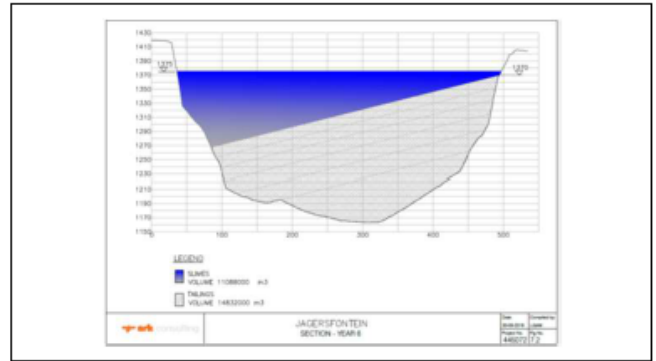


6

How do they want to do it?

- Dr Graham Howell (engineer) from SRK designed way to infill pit.
- First infill with coarse tailings using conveyor belt.
- Then infill with fine tailings (slimes) using pipes.
- Fill to approximately 30 – 60 m from top.

7



8

Pros

&

Cons

- JD will be able to continue processing tailings for another 9 years (approximately).
- Old tailings dumps will be removed.
- Less dust and noise.
- No need for a new FTSF.
- Pit will be rehabilitated.
- Pit will be stable enough to reopen gantry (look-out point) and museum.

- The pit has historical value.
- Pit won't be look the same and be so deep.
- Old FTSF will remain as is, i.e. won't be used to infill the pit.
- Without infilling the pit, JD may stop operations.
- No new jobs anticipated with infilling process.

9


So what's happening now?

- Community's inputs needed (please send comments by **5 December 2019**).
- An Integrated Water and Waste Management Plan ("IWWMP") application at the Department of Water and Sanitation ("DWS") by Turn 180 Environmental Consultants.
- A South African Heritage Resources Agency ("SAHRA") permit application by Cliffe Decker Hoffmeyer.
- A Socio-economic Assessment by SES Consulting.
- These Government Departments will consider these reports to determine the impacts of backfilling the pit on neighbouring communities.

10

Thank you.


- Marguerite Cronje
- Tel: 0627020547
- Email: admin@turn180.co.za / margueritecronje@gmail.com



JAGERSFONTEIN PIT: REHABILITATION THROUGH BACKFILLING PROJECT

Socio-Economic Impact Assessment:
Community Meeting: Feedback on baseline data collection
28th November 2019
Mayibuye Hall 13:00


0



WHAT INFORMATION IS CONTAINED IN THIS PRESENTATION?

- Details of the SEIA process
- What do we intend to do?
- Which stakeholders did we engage with?
- High level baseline findings
- What are some of the potential socio-economic impacts of the proposed Project?
- What is the proposed schedule for the SEIA process?
- Comments and questions
- Contacts

1



SEIA PROCESS


- Scoping Phase
 - Undertake a site visit
 - Meet with key stakeholders
 - Determine methodology for primary data collection
- SEIA Phase
 - Undertake socio-economic baseline data collection
 - Identify positive, negative and cumulative impacts
 - Determine mitigation measures to enhance positive impacts and to mitigate negative project impacts
 - Present preliminary findings to stakeholders for comment
 - Complete SEIA Report
- Decision-making Phase
 - SAHRA Authority review of SEIA Report
 - Authorities use findings to decide on the approval of the Project

Scoping Phase

SEIA Phase

We are here.


2



STAKEHOLDERS

- District Authorities
 - Kopanong Local Municipality
 - Ward Councillor
- Households neighbouring the expansion project
 - Jagersfontein
 - Itumeleng
 - Charlesville
- Police
- Healthcare practitioners
- Teachers
- Community Organisations
- Itumeleng Trust


3



BASELINE RESULTS

- Identified three communities neighbouring the Project Area that would be **directly** impacted by the proposal to backfill the Pit:
 - Jagersfontein Town
 - Itumeleng
 - Charlesville
- One community would be **indirectly** impacted due to proximity of this community to the proposed Project Area:
 - Fauresmith
- Unemployment and poverty in these communities are extremely high.
- Primary employers in the area are the Government and JD.
- Due to a shortage of local skills, staff at the hospital, clinic, police station and schools are primarily from Bloemfontein.
- Majority of household incomes are dependent on the social grant.
- Majority of households in the area cannot afford basic services; water and electricity.

4



BASELINE RESULTS

- Schools are under resourced, and due to a lack of funds facilities are degraded.
- Levels of STDs and HIV are high.
- Crime, alcohol and drug abuse is a problem in the communities, especially in Itumeleng.
- Community members are not in support of the proposal by JD to infill the Pit. Reasons provided by community members include:
 - JD does not employ locals, and most of their employees are from North-West.
 - They do not train locals so that they can be employed at the operation.
 - They are operating without a Mining License and Social Labour Plan.
 - The Itumeleng Trust does nothing to assist with development in the community.
 - JD is depleting scarce water reserves in the area.
 - The Pit is of heritage value, and is an asset that belongs to the community.
 - If the project is approved the backfilling of the Pit will destroy any hope of reviving the tourism industry in Jagersfontein.
 - JD cannot be trusted. The company does not care about the communities.

5

POTENTIAL PROJECT IMPACTS 


- List of potential **NEGATIVE** socio-economic impacts if project is approved

NEGATIVE


Filling the Pit with tailings will destroy the heritage value of the Pit. **Mitigation: None**

Destroying the heritage value of the Pit could potentially affect tourism to the area. **Mitigation: Promote tourism by reopening the museum and gantry**

Potential contamination of water sources and aquifers. **Mitigation: Project design will prevent water contamination.**



6

POTENTIAL PROJECT IMPACTS 

- List of potential **POSITIVE** socio-economic impacts if project is approved


POSITIVE

Backfilling the Pit would stabilise the Pit reducing safety risks and vibrations affecting local residents. **Enhancement measure: None**


Rehabilitating the Pit could potentially assist with restoring tourism. **Enhancement measure: Refurbish the museum and reopen the gantry.**

During construction phase project will generate employment. **Enhancement measure: Ensure employment of locals. Skills development and training if required.**

Restructure Itumeleng Trust so that community development initiatives actually assist community members. **Enhancement measure: Build trust between community and operations.**



7

POTENTIAL PROJECT IMPACTS 

- List of potential socio-economic impacts if project is **NOT** approved

NEGATIVE

JD currently employs 82 local employees:

- Itumeleng (66)
- Charlesville (8)
- Jagersfontein Town (6)
- Fauresmith (2)

If not permitted to use the Pit JD will not continue operating, resulting in loss of jobs.


The Pit is breaking back at 1m per year. If not rehabilitated, properties and residents within a 100m zone of the Pit will need to be relocated.

The Itumeleng Trust will no longer receive additional funds for development projects.

If operation shuts down there will be a loss of income for the Local Municipality.

If not rehabilitated accessing the Pit will be unsafe. Risk of injuries and loss of life.

8

POTENTIAL PROJECT IMPACTS 

- List of potential socio-economic impacts if project is **NOT** approved

POSITIVE

Pit will maintain its heritage value.


SAHRA would become liable for the Pit and would need to maintain the asset in order to prevent safety risk of injuries, and loss of life.

9

NEXT STEPS 

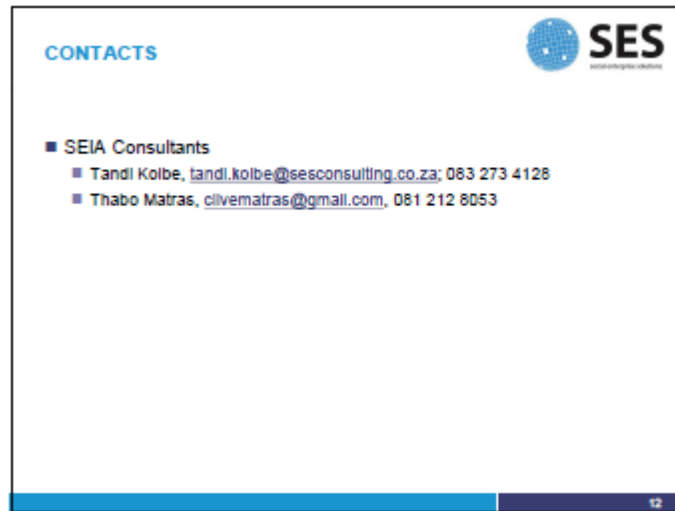
- A Socio-Economic Impact Assessment Report is being prepared. (Nov – Dec 2019)
- Report will be submitted to SAHRA as part of the permit application by JD**

10

COMMENTS AND CONCERNS 

- Please raise your comments and concerns.
- These will be included in the SEIA Report submitted to the South African Heritage Resource Agency (SAHRA).

11



12



Figure 15: Meeting in process in the Mayibuye Hall in Itumeleng, Jagersfontein on 26 November 2019.

Comments received



rural development & land reform

Department:
Rural Development and Land Reform
REPUBLIC OF SOUTH AFRICA

Office of the Director: Property Management, Free State Shared Service Centre, Private Bag
X20546 Tel: 051 400 4200 Fax: 051 430 2392

Enquiries: RA Ryan

Turn 180 Environmental Consultants
Private Bag X01
BLOEMFONTEIN
9301

For attention: Louis de Villiers

APPLICATIONS FOR A WATER USE LICENCE IN TERMS OF SECTION 21(G) OF THE WATER ACT 36 OF 1998 AND SECTION 38(1) OF THE NATIONAL HERITAGE RESOURCES ACT 25 OF 1999 FOR THE REHABILITATION OF THE HISTORICALLY MINED PIT ON PORTION 15 OF THE FARM JAGERSFONTEIN 14, FAURESMITH RD

1. Your application dated 4 November 2019 has reference.
2. Portion 15 of the farm Jagersfontein No 14 is registered into the name of Jagersfontein Developments Pty Ltd in terms of Title Deed T1157/2011.
3. As the property is not State land, the Department has no objection to your application on condition that approval must be granted by other State organs in this regard.
4. It is trusted that you will find this matter in order.

Kind regards

Ms U Mahlawe
Director: Property Management

Date: 11/11/2019



Marguerite Cronje <margueritecronje@gmail.com>

Jagersfontein Pit Rehabilitation - IWWMP

Stephen Haggerty <haggerty@fiu.edu>

12 November 2019 at 20:1

To: Marguerite Cronje <margueritecronje@gmail.com>

Cc: "louis@turn180.co.za" <louis@turn180.co.za>, Cheryllyn Theron <bluediamondlodge99@gmail.com>

Dear Ms. Cronje:

I had previously written [2012/13] in defense of preserving the open pit at Jagersfontein for: **1.** its historic & heritage value as the first mine in South Africa in which development resulted in the deepest *hand-dug* hole on Earth; and **2.** its geological significance insofar as it was at Jagersfontein (NOT Kimberley) that the first connection was made between a hard rock *viz.* kimberlite and diamond (all previous diamonds were alluvial from rivers); and, as importantly: In studies of deep Earth dynamics Jagersfontein produced diamonds from greater than 700 km, and rocks from more than 400 km, the deepest yet known to reach the surface of the Earth volcanically.

Current comments: **1.** There are no changes to my earlier objections above. **2.** The current application to back-filling the pit with slimes and tailings to 30m from the surface will NOT stabilize the perimeter. **3.** Back-filling the pit with moisture-retaining fines is more likely to *accelerate* sidewall collapse than preserving its integrity. **4.** Stability arguments comparing Jagersfontein with the Kimberley mines are invalid because the former is intruded into solid volcanic rock whereas the upper reaches of the latter are into metastable sediments. **5.** There are well established methods of stabilizing open pits many of which were designed and perfected in South Africa and as I suggested previously retention gables and thixotropic cement are proven applications. **6.** The remaining opening of a few surface hectares cannot and will not substitute for the awe-inspiring view to the open chasm that the pit now presents. **7.** The tailings are chemically contaminated from modern processing and this will be released to ground water wells in the surrounding area for many tens of kilometers radially. **8.** Water from the pit is already known to have very high contents of arsenic possibly from decomposed sulfides in the kimberlite or from the associated shales and sediments. **9.** The tailings have high phosphate contents [excellent fertilizer but a portable water contaminant], and so the heaps need to be flattened not removed to have the Jagersfontein farm restored to being agriculturally viable. **10.** Advances in autonomous mining would make Jagersfontein an attractive proposition to reopen given its long history of producing large diamonds and blue-whites that are globally unique. **11.** Why would one to back-fill a hole with material that still contains millions of carats of micro-diamonds that advancing technology will readily recover in the near future? **12.** Tailings are an economic resource as is currently demonstrated at Jagersfontein, Kimberley and elsewhere-----new mines are rapidly dwindling but with applications that utilize the unique properties of diamond [microscopic in particular], resource tailings [*aka* dumps] will be the diamond mines of the future!

With best regards, Steve Haggerty.

Stephen E. Haggerty*Distinguished Research Professor**Earth & Environmental Sciences**Florida International University**11200 8th Street**Miami, FL 33155 USA*haggerty@fiu.edu*+1-305-348-7338*

Jagersfontein Pit Rehabilitation Comments

June 2012

Loudine

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GV

Gillian Vermaak

Thu 06/28/2012 4:13 AM

Hello Loudine Kindly find Prof Haggerty's email below whereby he agrees to you sharing his information. Let us know how the application proceeds. Kind regards Gillian

Gillian Vermaak <gillian@glaasstudio.co.za>

Fri 06/22/2012 2:49 AM

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Hello Stephen

Hope all is well with you, are you still in Liberia?

Would it be possible to give Loudine permission to use the info in your email for her argument against filling the pit?

Kind regards

Gillian

Dear Gillian

Prof Haggerty's reply is EXCELLENT and as an expert in this field would carry immense weight but I would need his permission to use it. If he would agree to that he can forward the email to my address with reference that his opinion on this matter might be used as is or alternatively, if he has the time, he can edit it for this purpose. The idea is to attach that to Heritage Free State's own comments on this matter when sending the application off to SAHRA (South African Heritage Resources Agency).

As explained, although SAHRA deals only with national heritage, Heritage Free State has delegated the FS archaeological permit applications to them on account of shortage of staff on our side. (The open pit mine is classified as archaeological on account of its age and the fact that it is no longer in use.) I am in any case of the opinion and have been since I've written the first report on this, that the open pit mine should be a national heritage site at the very least and I will definitely mention that in the comments to SAHRA. There are certain procedures to follow in filing an application for a site to be declared but we will deal with that once the current issue has been decided.

All the best

Loudine

GV

Stephen Haggerty <rffestore@fiu.edu>

Wed 06/13/2012 7:59 PM

- Hettiie Potgieter <cfp1@mweb.co.za>

+6 others ·

Hello Chris:

Just out of the bush again to resupply & so must have missed my suggested call to Liberia.

In the absence of convening my personal views initially over the phone thought it would be more appropriate to document my observations:

[1] During our negotiations on the sale of the property I expressed a major concern that SONUP had not submitted an environmental mitigation program if awarded the concession to reprocess the tailings. I was given the reassurance that it was in progress---Not seen anything since but then I'm no longer the owner & it's now your responsibility.

[2] I'd also learned that the big hole was to be filled with the reprocessing residue (tailings + slimes) I was aghast & expressed my doubts that given the historical nature of Jagersfontein that the Heritage Commission would permit such a travesty to the largest hand dug hole on Earth & the site of SA first established commercial mine. With over 1700 hectares of depository land why dump it into the historical site? And as a bystander I rather doubt that Johan Rupert would endorse this environmental destructive action.

[3] Let's get to the report that you so kindly forwarded for my comments: It's excellent in detail but missed several basic fundamentals (i) Jagersfontein cannot be compared with the Kimberley big hole that has the city teetering on it's brink---a comment made in an earlier report by the same consultants BUT not fully acknowledged in the final presentation; the geology of the pipe country rocks are vastly different: soft water saturated shale in Kimberley versus hard & robust volcanic dolerite in Jagersfontein. (ii) The cascading collapse of the pipe wall rock has been going on since the mine was opened in 1890, many of the cracks documented in the report were photographed in 1977 & there has been no change since then; (iii) there's no question that the perimeter of the pipe is collapsing & periodic rock falls are a clear testament to that fact. (iv) but if the impending danger is at the edges of the pipe why not stabilize it---SA has the most advanced geotechnical expertise in the world in this sector---use it! (v) the recommendation is to dump tailings followed by slimes---even my basic undergraduates will readily conclude that that very first rains will liquefy the fines and given the angular nature any coarser below it the material will bypass the filter----any attempt to layer or purify will simply NOT work; (vi) the hole will take 35 years to fill---BUT THE PROBLEM OF COLLAPSE IS AT THE EDGES OF THE PIT-----so mitigation is 3.5 decades away----so how can one possibly rationalize filling the hole from the bottom----shouldn't it be from the top down--clearly impossible so the obvious solution is to stabilize the perimeter with thyrotrophic cement (as I recommended as a student for a mine under the Baltic Sea in Finland & for which I received an honouree medal from the Royal School of Mines in London); (vii) In filling the hole and reconstructing an aviary sanctuary is juvenile! Would you want to visit a MECANNO or LAGO-reconstructed Great Wall of China, the Parthenon, the Acropolis, the Pyramids, the Temples of Abu Simbal or Machu Pichu and be told this is what man created BUT that man destroyed it to make room for modern waste.----I think & hope not; and finally but not concluded (vii) the recommendation for a perimeter fence which will required in "perpetuity" (meaning from Genesis to the book of Revelations) is again, nothing less than infantile. The company, having acquired the rights to the big hole has a moral responsibility to maintain the integrity of this classically important heritage site in the mining annals of South Africa & of

diamonds globally. It was after all that the first connection between diamonds & a hard rock was made at Jagersfontein-----NOT Kimberley. And Jagerfontein is the ONLY source of the blue-white and the holds the record for the number of new minerals from the mantle & the deepest rocks ever to reach Earth surface.

My concerned thoughts as I return to the wonders of the primordial jungle of NW Liberia.

Kindly deliberate & please forward my comments to Johan Rupert.

With warm regards, Stephen.

Stephen E. Haggerty
Distinguished Research Professor
Dept. Earth & Environmental Sciences PC 344
Florida International University
Miami FL 33199
305-348-7338