Appendix C1 Powerpoint Presentation



Proposed Amendment to the Environmental Management Programme: Tronox KZN Sands Fairbreeze Mine, Mtunzini

KZN Sands, South Africa





Tronox KZN Sands

- Shalen Poorun Site Director
- Zakithi Zama Regional Manager: Communities & Corporate Relations
- Sipho Mkhwanazi SHEQ Manager
- Roland Hallquist Project Manager
- Nick Okello Environmental Specialist

SRK Consulting

Kirsten King – Environmental Consultant

Agenda





- 1. Purpose of the meeting
- 2. Amendment application process
- 3. Brief overview of Fairbreeze Mine
- 4. Proposed change to mining method
- 5. Potential impacts
- 6. Specialist study results
- 7. Proposed EMPr amendment
- 8. Tronox value commitment
- 9. Discussion





- Introduce the proposed change to the mining method at Fairbreeze Mine
- Present the results of the noise specialist study
- Outline the proposed EMPr amendment and the application process
- Address queries and respond to comments





About Tronox: Our Values

TRONOX



Health & Safety We work safely – all the time

We believe passionately that everyone at Tronox should experience a safe and healthy workplace. We proactively identify and manage risk, conduct ourselves responsibly, exercise good judgment and take responsibility for our actions.



Teamwork We will win – as a team

We collaborate effectively, communicate openly, engage honestly, treat others respectfully, and make informed decisions.



Responsibility We care for our environment and our communities

We are responsible citizens, as a company and as individuals. We are stewards of our environment and active in our communities.



Customers It really is all about the customer

Our collective purpose is to create and sell

differentiated and competitive products and services, and to make it easy for our customers – internal and external – to do business with us.



People

People are our most important resource

We create opportunities for development and act intentionally to create a diverse and supportive work environment. Each of us is committed to personal growth and development, embraces change, and learns from our successes and mistakes in order to create a high-performance culture.



Results

We measure, own and deliver results

We encourage creativity and measure results. We set clearly defined and challenging objectives; we own those objectives, and we deliver results, with a relentless focus on operational excellence. We innovate our processes to continuously deliver better results



Tronox Limited operates a vertically integrated mining business and is among the leading TiO2 producers worldwide



Where We Operate

TRONOX



Fairbreeze Mine High Level Layout & Timeline



9



START

2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034



Current Approved Mining Method



Primary mining method: Hydraulic mining Use of high pressure water jets (monitors) to turn the ore into slurry to be ٠ pumped to processing plant Secondary mining method: Mechanical mining Use of earth moving equipment (excavators, bulldozers, dump trucks) for certain ٠ activities: Bush clearing and topsoil stripping Stripping barren areas in orebody Tree Barrier Rehabilitation - once area mined and filled with sand tailings: shaping, ٠ Dozer operation covering with layer of reconstituted soil and topsoil and vegetating (top soil stripping) daylight hours Top Soil Hydraulic Monitor Gun Run of Mine 25 Bar 1200tph Pit (Trap)





- Approved target production rates were based on similar orebodies hydraulically mined at Hillendale
- Operational results and research indicates a significant amount of competent ore forms hard surfaces
- During 2016 & 1st half of 2017, the mining rate using the hydraulic method was constrained to +/- 900 tph (approximately 60% of required tonnage)
- Alternate solutions (increasing water pressure etc.) were investigated
- Mechanically assisted mining was identified as the optimal option
- During the 2nd half of 2017, Tronox implemented the use of earth moving equipment to mechanically break the hard layers in the orebody before hydraulic mining. This improved the mining rate to approximately 1 100 tph
- An increase in dozing times by using mechanical mining on a 24/7 basis at C Ext. is expected to further improve production by about 30%





Proposed Mining Method for Orebodies A & B



Potential Impacts Identified





Noise Assessment for Orebody C Ext (Safetech, Nov 2018)

D10 bulldozer was used for noise modelling (highest sound power level)

Recommended noise mitigation measures to ensure compliance with the noise limits are to be included in the amended EMPr



If the current 100 m green buffer zone is maintained, the night noise limit of 40 dBA for a suburban area will only be exceeded when mining is at the <u>surface level within 450 m</u> of the site boundary i.e. the Noise Alert Zone

TRONOX

Mitigation: Orebody C Ext







Current noise mitigation actions for Orebody C Ext:

- "Mining of FBCX will advance northwards towards Mtunzini to ensure that the hydraulic monitors are normally not visible from the town (acoustically screened behind the bench)" • 99
- "Bulldozing operations at FBCX will be limited to daytime hours" 100
 - "The mine will avoid clustering of the hydraulic monitors when mining in the zone nearest to Mtunzini" 101
 - "The 100 m wide tree barrier between FB and Mtunzini (85-90 m of indigenous trees, and 10-15 m of Eucalyptus, 5 m firebreak) will be maintained and supplemented to ensure its development and effectiveness. Where necessary, powerlines and services will be re-routed so that the barrier remains • 86 intact"

	Impact	Mitigation actions
↓	Noise	 Tree barrier (+-100m) to remain 3 m high top soil berm on community boundary
Amendment to		3. Silencers on dozers (where not fitted)
include 24 hour		4. Laryngitic goose reverse alarm
bulldozing		5. 10 m wall (bench) to screen noise
operations with		6. Permanent noise monitoring at 500m to boundary
mitigation:		7. Acoustic screening of equipment where required
		8. Top soil stripping must only occur during daylight hours

Advantages/ Value Proposition

- Finish mining by +/- end of 2022 at C Ext. With current mining methods, production targets not being met affecting profitability and probable extension of mining duration by +/- one year.
- Decreased operational costs would improve the bottom line for KZN operations thus more investment.
- Rehabilitation: Tronox owns C & C ex and these areas proposed to be rehabilitated to grassland thus more recreational areas for community.
- Shaping of C has commenced. Backfilling expected at end of 2019
- Successes/ learning of rehab implemented at Hillendale has informed Fairbreeze rehab.
- Tronox commitment to continue being good neighbor
- MSRSF and Everglades to potentially be used as artificial wetland catchments for Valley Return Water Dam which can be used as emergency water source.





- Questions and comments
- Please clearly provide your contact details in the attendance register for future notification

EAP Contact Details Kirsten King SRK 031 279 1200 kking@srk.co.za Appendix C2 Attendance Register



FORM 3-1A REV.1 (OPTIONAL)

Client Name:	Tronox KZN Sands			
Meeting:	Fairbreeze Mine Direct Neighbouring Community in Mtunzini			
Project Number:	537627	Date:	04 April 2019	
Venue:	Mtunzini Country Club	Time:	15h00	

TITLE	NAME AND SURNAME	ORGANISATION/DIVISION/ CAPACITY	CONTACT DETAILS				
			Address:				
			Cell No:	836432928	Email:	BRMS, YMERE TIEREDASA	
MR	BARKER MEINTYRE	RESIDENT	Fax Number:		Signature:	delte	
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MR	MIKE BUTLER	MIUNZINI COMBOWING	Cell No:	0836543010	Email:	WBUTLER @ IAPPLICA. COUN	
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	A. A. HUGADHD	RESIDENT	Address:	112 MIMOSA DR			
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d la	- R	RASIDEDA	Cell No:	0527442675	Email:	jabruin atelKomsq.ne	
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FORM 3-1A REV.1 (OPTIONAL)

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Project Number:	537627	Date:	04 April 2019	
Venue:	Mtunzini Country Club Time: 15h00			

TITLE	NAME AND SURNAME	ORGANISATION/DIVISION/ CAPACITY		CON	TACT DETAILS	
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EXTERNAL ATTENDANCE REGISTER

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Client Na	ame:	Tronox KZN Sands						
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EXTERNAL ATTENDANCE REGISTER

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19 March 2019 537627

Attention: Resident of the Fairbreeze Mine Direct Neighbouring Community in Mtunzini

Notice of a Meeting to Present and Discuss a Proposed Amendment to the Tronox Fairbreeze Mine Environmental Management Programme

Tronox KZN Sands (Pty) Ltd (Tronox) and SRK Consulting (South Africa) (Pty) Ltd (SRK) hereby invite Mtunzini residents within the direct neighbouring community of the Fairbreeze Mine to attend the following meeting:

Time:	15h00 – 16h30
Date:	Thursday 04 April 2019
Venue:	Mtunzini Country Club, Hely Hutchinson Street, Mtunzini

The purpose of the meeting is to present and discuss a proposed amendment to the Tronox Fairbreeze Mine Environmental Management Programme (EMPr).

Mining operations at Fairbreeze Mine are undertaken in accordance with Tronox's approved EMPr. However, since commencement of mining, operational results and research have shown that there is a significant amount of competent ore that forms hard surfaces which cannot be mined solely with the current hydraulic mining method.

Tronox has investigated alternative mining methods and trials have indicated that mechanical mining methods are required to break the hard ore body. Tronox therefore intends to submit an application to the Department of Mineral Resources (DMR) for amendment of the Fairbreeze Mine EMPr to allow for implementation of the proposed amended mining method.

Tronox has appointed SRK as the independent Environmental Assessment Practitioner (EAP) to prepare the amendment application and to undertake stakeholder engagement with the direct neighbouring community in Mtunzini.

The following information will be presented and discussed at the meeting:

- 1. Motivation for the proposed EMPr amendment.
- 2. Description of the proposed change in the mining method.

Partners R Armstrong, S Bartels, AH Bracken, N Brien, JM Brown, CD Dalgliesh, BM Engelsman, R Gardiner, M Hinsch, W Jordaan, WC Joughin, DA Kilian, S Kisten, F Lake, JA Lake, V Maharaj, I Mahomed, HAC Meintjes, MJ Morris, GP Nel, VS Reddy, T Shepherd, PJ Shepherd, NJ Sim, VM Simposya, JS Stiff, HFJ Theart, KM Uderstadt, AT van Zyl, MD Wanless, ML Wertz, A Wood

Directors AJ Barrett, CD Dalgliesh, WC Joughin, V Maharaj, VS Reddy, PE Schmidt, PJ Shepherd

Associate Partners PJ Aucamp, CM Bauman, LSE Coetser, M du Toit, SG Jones, L Linzer, JI Mainama, L Nedeljkovic, RD O'Brien, S Reuther, JJ Slabbert, M van Huyssteen, D Visser

Consultants JR Dixon, PrEng, GC Howell, PrEng, T Hart, MA, TTHD, PR Labrum, PrEng, RRW McNeill, PrTech Eng, PN Rosewarne, PrSci Nat, MSc, AA Smithen, PrEng, TR Stacey, PrEng, DSc, PJ Terbrugge, PrSci Nat, MSc, DJ Venter, PrTech Eng

African Offices:		Group Offices:
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Pretoria	+ 27 (0) 12 361 9821	
Accra	+ 23 (3) 24 485 0928	CESA
Lubumbashi	+ 243 (0) 81 999 9775	+

- 3. Legislative requirements.
- 4. The results of the specialist studies undertaken.
- 5. The proposed amendment to the EMPr.
- 6. The public participation process.
- 7. Discussion and way forward.

If you are unable to attend the meeting but would like to comment on the draft amendment application once it is available for review, please send your contact details in writing to:

Kirsten King Email: <u>kking@srk.co.za</u> Tel: 031 279 1200

Should you have any queries or require further information, please feel free to contact me.

Yours faithfully,

SRK Consulting (South Africa) (Pty) Ltd

SRK Consulting - Certified 8 43541/Letter 7644-7957-826-KING This signature has been printed digitally Authorhas giver use for this document. The details are stored in the SRK Signatu

Kirsten King CEAPSA Principal Environmental Scientist

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Mtunzini Mtunzini

Kirsten King

From:	Kirsten King
Sent:	Wednesday, 20 March 2019 2:02 PM
То:	'xaxaza@mtunzini.co.za'
Subject:	Notice of Meeting - Tronox EMPr Amendment
Attachments:	537627_Tronox FB Mine_Meeting Notice_19Mar2019.pdf

Good day

Please find attached an invitation to attend a meeting for the presentation and discussion of a proposed amendment to the Tronox Fairbreeze Mine Environmental Management Programme.

Should you have any queries or require further information, please do not hesitate to contact me.

Regards

Kirsten King CEAPSA Principal Scientist



SRK Consulting (South Africa) (Pty) Ltd.

2nd floor Norfolk House, 54 Norfolk Terrace, Westville, 3630 P O Box 1969, Westville, 3630 Durban, KwaZulu-Natal, South Africa

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12 July 2019 537627

Dear Sir/ Madam

Notice of the Availability of the Draft Amendment Report for Comment:

Proposed amendment of impact management action No. 100 of the Tronox Fairbreeze Mine Environmental Management Programme to allow for 24 hour bulldozing operations at **Orebody C Extension**

Tronox KZN Sands (Pty) Ltd (Tronox) is proposing to amend impact management action No. 100 of the Fairbreeze Mine Environmental Management Programme (EMPr, April 2012) to allow bulldozing operations for 24 hours per day at Orebody C Extension (FBCX), located to the south of and adjacent to Mtunzini.

As part of the amendment application process, a meeting was held with the direct neighbouring community on 04 April 2019 to present and discuss the proposed EMPr amendment.

At the meeting it was requested that an additional noise survey be undertaken of the proposed mining method (a combination of hydraulic and mechanical mining methods). The additional noise survey was undertaken in May 2019. The results indicate that the earthmoving mining equipment was not audible at any of the test points during the survey, thus confirming that the proposed additional noise mitigation measures have a positive noise screening effect.

The results of the specialist studies undertaken and the comments and responses table from the stakeholder meeting have been compiled into a Draft Amendment Report which is available for review and comment for a period of 30 days.

The Draft Amendment Report is available for review as follows:

- SRK's website: https://www.srk.co.za/en/za-tronox-fairbreeze-mine-empr-amendment
- From SRK on request (refer to contact details below).

You are invited to submit written comments on the Draft Amendment Report to Kirsten King of SRK Consulting by Monday 12 August 2019 via:

Fax:	031 279 1204
Email:	kking@srk.co.za
Post:	SRK, PO Box 1969, Westville, 3630

Partners R Armstrong, S Bartels, N Brien, JM Brown, CD Dalgliesh, BM Engelsman, R Gardiner, M Hinsch, W Jordaan, WC Joughin, DA Kilian, S Kisten, F Lake, JA Lake, V Maharaj, I Mahomed, HAC Meintjes, MJ Morris, GP Nel, VS Redy, T Shepherd, PJ Shepherd, MJ Sim, VM Simposya, JS Stiff, HFJ Theart, KM Uderstadt, AT van Zyl, MD Wanless, ML Wertz, A Wood

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Consultants JR Dixon, PrEng, GC Howell, PrEng, PR Labrum, PrEng, RRW McNeill, PrTech Eng, PN Rosewarne, PrSci Nat, MSc, AA Smithen, PrEng, TR Stacey, PrEng, DSc, PJ Terbrugge, PrSci Nat, MSc, PN Rosewarne, PrSci N DJ Venter, PrTech Eng

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After closure of the comment period, the comments and responses table will be updated with any additional comments received during the comment period and the report will be updated, finalised and submitted to the Department of Mineral Resources (DMR) for a decision.

Stakeholders will be notified of the submission of the Final Amendment Report to DMR and a copy of the final report will be made available for review. Once DMR has issued a decision regarding the proposed EMPr amendment, stakeholders will be notified of the decision and the appeal process.

Should you have any queries or require further information please do not hesitate to contact the undersigned (Tel: 031 279 1200).

Yours faithfully

SRK Consulting (South Africa) (Pty) Ltd

SRK Consulting - Certified E 55/Letter Repo 1348-3778-6241-KING-11/07/2019 This signature has been printed digitally use for this document. The details are stored in the SRK Signati

Kirsten King CEAPSA Principal Environmental Scientist

Proposed Amendment to the Tronox KZN Sands Fairbreeze Mine Environmental Management Programme

Comments and Responses Table from the Mtunzini Community Meeting held at Mtunzini Country Club on 04 April 2019

Comments	Responses	
NOISE		
Will rubber or steel tracks be used on the bulldozers? The grinding of steel tracks can be noisy.	Standard steel tracks will be used. Tronox has investigated the option of using rubber tracks but this is not feasible as rubber tracks are not manufactured for the size of dozers to be used on site.	
What additional number of bulldozers will be used for the proposed new mining method?	It is proposed that the current day-time dozer fleet be extended into night-time operation, therefore there will be no increase in the number of dozers that are currently being used during the day-time i.e. 2 -4 dozers during operational mining.	
Is it possible to increase the frequency of noise monitoring earlier i.e. not wait until the mining is within 500m of Mtunzini?	Tronox is currently monitoring noise levels in accordance with the approved EMPr requirements. However, to ensure minimal disturbance to the community, especially with the advancement of mining towards Mtunzini town, a permanent monitor is to be installed and noise surveys will be conducted at an increased frequency.	
Has noise monitoring been undertaken for the new mining method as yet in order to provide a base level?	Ambient noise monitoring was undertaken pre-mining during the Environmental Impact Assessment (EIA) and has been undertaken regularly during mining. Tests and use of mechanically assisted mining commenced in Orebody C approximately 1.5 years ago, therefore noise monitoring has been ongoing during implementation of the new mining method. An additional noise survey of the new mining method was also undertaken in May 2019 (as per request at the meeting). Refer to Appendix D2.	

Comments	Responses
During the building of the earth berm along the Mtunzini boundary and during other isolated incidents, noise has been an issue for residents close to the mining, especially those located on high ground. The dozer noise is not consistent and creates an irritant. There has been a delay in response when listing a complaint on the forum website – generally around 24 hours. Is it possible to provide a number for an immediate response time?	Tronox continually strives to improve response times to complaints and will continue to do so. Occasionally there may be a delay due to investigations which might be unavoidable if adequate feedback is to be provided. The Tronox phone number to call in the event of a complaint is 035 902 7001 (General inquiries/ Complaints), 035 902 7000 (Central Processing Plant in Empangeni), 035 340 8101 (Fairbreeze Mine in Mtunzini) or alternatively please contact us and leave your comments on https://www.tronox.com/contact-us.
What action will be undertaken when the monitored noise exceeds the relevant standards?	The implementation of the laryngitic goose noise reverse alarm system is an example of an action that was implemented to manage noise levels, and which has been effective judging by reduced number of complaints. During continuous monitoring, immediate action can be undertaken when levels are exceeded i.e. to investigate the cause of the noise and implement the required management measures with an aim to have as minimal disturbance as possible.
Under what conditions was the noise monitoring of the D10 dozer undertaken i.e. where was the dozer operating, what activities was the dozer performing and was the monitoring undertaken during the day or at night?	During the initial noise study (2018), the noise specialist (Safetech) recorded noise readings from the D10 dozer at various distances above and below the mining wall. The noise levels were then entered into a computer model to simulate the dozer working in Orebody C Ext. The model was run using the worst-case scenario i.e. a D10 dozer at the maximum sound power level, and the results were compared to the relevant standards, which for Mtunzini as a suburban area, are 50 dBA during the day and 40 dBA at night. Refer to the response below regarding the additional noise monitoring undertaken for the new mining method during May 2019.

Comments	Responses	
In order to increase the level of confidence in the noise monitoring results, it is requested that another test be undertaken of the D10 dozer where it is currently mining south of the farmhouse at C-Extension which pose similar mitigation conditions to those at Mtunzini. There is a tree barrier at the farmhouse and noise monitoring of the dozer operating in terms of the new mining method behind a mine face would provide real results rather than modelled results.	In order to meet this request, Tronox commissioned an additional noise survey by Safetech after the meeting. The field work was conducted on 27 May 2019 from 15h00 (before sunset) to 18h40 (after sunset). Field measurements were taken of the proposed mining method i.e. a combination of hydraulic and mechanical mining methods. The noise was measured while mining with a 10m high face and 3m high berm between the mining position and the receiver at approximately 100m, 200m, 300m 400m and 500m distances from the mining activities towards Mtunzini The earthmoving mining equipment was not audible at any of the test points during the survey indicating that the 10m mining face and 3m berm thus had a positive noise screening effect.	
The noise impact will be affected by the wind direction – the noise impact will be worse in Mtunzini during a southerly wind. How was this taken into account in the noise modelling?	The noise model assumed no wind as this is the worst-case scenario. During no wind conditions, the machine will be operating underneath a temperature inversion and sound will carry further. Windy conditions tend to mix the sounds from various noise sources and provide a masking effect e.g. during strong winds one generally just hears the wind and it's difficult to hear anything else.	
The ambient monitoring that was undertaken in Waterbessie Street was undertaken at a very low point. The monitoring point should be located at a higher point while the mining is still relatively distant in order to provide a baseline. A resident whose house is located at a high point on the Mtunzini boundary offered her residence as a monitoring location.	This is noted and to be considered for the siting of future ambient noise monitoring locations for Mtunzini. Ambient monitoring has been undertaken at various locations within Mtunzini from pre-mining and on a regular basis during mining, which provides sufficient baseline.	
DUST		
What about dust impact? Will a row of trees and berms mitigate dust impacts in Mtunzini? Wind speed and direction will influence potential dust impacts.	The proposed mining method for Orebody C Ext is a combination of mechanically assisted mining and hydraulic mining (extremely wet condition). Along with the 100m wide tree barrier, 3m high berm and the dozers working behind a 10m mining face, the dust management measures in the current EMPr will also be implemented e.g.	

Comments	Responses	
	water spraying /wetting and monthly dust monitoring. Additional dust buckets have been installed around the mine perimeter at Mtunzini bringing the total number of buckets to 4. Dust issues relate mainly to topsoil stripping and movement of vehicles. There are no proposed changes to either of these activities i.e. topsoil stripping will be implemented as per the approved EMPr and no additional trucks will be travelling in the C Ext area.	
Particulate Matter (PM) is of more concern than dust in terms of respiration. How many monitoring points are there for PM and dust?	There are four (4) PM_{10} monitoring points – one (1) of which is in Mtunzini and 4 dust monitoring points in the C-Extension area closer to the boundary	
VISUAL		
Potential impacts from lights at night are a concern. With regards to the tree barrier, a few years ago the trees were cut back from 100m wide to around 70m wide. This has thinned the screening potential of the tree barrier. Can proof be provided that beacons are in place to mark the 100m boundary for the tree barrier?	With the 100m wide tree barrier, 3m high berm and dozers working behind a 10m high mining face at night, no change in visual impact is expected with implementation of the proposed mining method. The 3m high earth berm which is being constructed along the northern boundary of the mining area is 5m away from the tree barrier on the mine side (to allow for a fire break) and hence does not involve the cutting back of any trees. In many places along the tree barrier, the barrier is more than 100m wide – the noise specialist measured the width of the tree barrier as 118m wide. The ore body area is pegged and is away from the 100m barrier boundary.	
What type of trees make up the tree barrier as different trees have different foliage density at different heights?	The tree barrier consists of an 80m wide barrier of indigenous trees which were supplemented with the planting of quick growing trees - primarily eucalyptus trees.	
Using a dozer to push soil around will have potential noise and dust impacts. What distance will the dozers cover when pushing soil and will dump trucks be used in C Ext?	Dump trucks will not be used in C Ext. It is expected that when necessary, the dozers will push material approximately 50m within the footprint of the receiving mining pit for pumping to the Primary Wet Plant (PWP). A study on dozer optimisation is underway, the results of which will inform the maximum distance that soil will be pushed by the dozers.	

Comments	Responses	
MONITORING RESULTS		
Is it possible for the dust, PM ₁₀ and noise monitoring results to be posted regularly on the website? This was undertaken in previous years.	Tronox supports the sharing of information. The monitoring results are currently reported at the Tronox Environmental Oversight Committee (EOC) meetings and the Direct Neighbouring Community Forum (DNCF) meetings. These results can be published on appropriate media and is available on request.	
The frequency of monitoring for noise and dust does not seem adequate. This monitoring will not capture potential high impact scenarios such as extremely high winds during the course of a day.	Current monitoring is undertaken as per the frequency stipulated in the approved EMPr. Dust buckets capture dust during the entire month and the dust is measured monthly. High dust conditions will therefore be captured in the monthly results which can be assessed with reference to climatic conditions recorded during the month. It is proposed that the requirement for continuous monitoring when mining commences in the Noise Alert Zone be included in the EMPr, hence it will be legally binding on Tronox and Tronox will be audited against this requirement. Tronox will consider increasing the noise monitoring frequency to monthly prior to the continuous noise monitoring in the Noise Alert Zone.	
MINE REHABILITATION		
Is continuous rehabilitation being undertaken?	Yes. There is focus on rehabilitation and the final shaping of Orebody C which has commenced is reliant on completion of building the Residue Storage Facility walls. Once this is done, backfilling, shaping and top soiling will commence.	
	Preliminary grassing of C-Orebody commenced and has been on-going in some mined out areas that are close to the post mining landform.	

Comments	Responses	
SOILS AND STREAM FLOW		
What is the proposed maximum depth of the mining face at the Mtunzini boundary?	There will be no change to the approved mining depth with the proposed amended mining method. The mining depth will be profiled from the boundary so some orebody will be sterilised to avoid a vertical face next to the boundary. The maximum mining depth ranges from 30 to 40m in some areas depending on dune height. A 30-degree angle slope from the boundary inwards is catered for and a profile of 1:2 will be maintained during rehabilitation.	
Will mining take place below the current stream level as this will impact stream flow?	Hydrological and geohydrological studies were undertaken prior to mining to inform the potential impact on water courses which was assessed during the EIA and appropriate mitigation measures were included in the approved EMPr and the mining plan. Tronox does not propose any change to the approved mining depth. Tronox has removed eucalyptus trees where possible and this has improved water availability to the streams. Quarterly biomonitoring undertaken by Tronox has indicated that river health is improving and the water flow in both Siyaya and aManzimnyama streams are actually in a much healthier state than in the pre-mining condition.	
The original soil / geotechnical analysis was flawed. The structure of the soils at Fairbreeze are different to soils to the north (Hillendale Mine) with a high clay content. Removing the B and C horizon soils will impact the natural drainage into streams. Underground dams may form if the natural flow is interrupted. Will this be addressed during rehabilitation? Will C horizon soils be mined?	As indicated earlier, hydrological and geohydrological studies were undertaken prior to mining to inform mine planning with appropriate mitigation measures included in the approved EMPr and the mining plan. Reshaping of the mined areas for rehabilitation will be guided by current drainage system to ensure that run-off is properly contained and drained. Having indicated so, a distinction should be made regarding general issues (which Tronox will respond to) and those specifically related to the proposed amendment application which require that Tronox commit to address the issue as part of the application. There will be no change to the depth of mining or the proposed rehabilitation methodology.	

Comments	Responses	
POTENTIAL MTUNZINI PROJECTS FUNDING		
A query was raised regarding the possibility for a predictable regular benefit for a community fund for implementation of programmes to benefit Mtunzini residents.	Tronox honours its responsibility to create value for stakeholders, especially for the surrounding communities. Tronox has received applications for financial assistance and are working closely with the MRA and other community organisations such as Twinstreams and Mtunzini Primary School . Although Tronox's current Social and Labour Plan (SLP) has been approved and is being implemented, future community initiatives and development needs which are in line with our values can be supported.	
Mtunzini residents are directly affected by the proposed amendment application which will not affect any other communities. The mine is to benefit from the amendment application. How will Mtunzini residents share the benefits to be achieved?		
The aim is to maintain the good neighbours approach whereby Tronox and its neighbours can work together towards mutual benefits. Tronox has assisted with identified security and fire risk problems within Mtunzini.		
AMENDMENT APPLICATION PROCESS		
How and when will feedback to the queries raised at this meeting be provided to those in attendance of the meeting? Will feedback be provided prior to submission of the application to the Department of Mineral Resources (DMR)? Will there be another meeting?	A Comments and Responses Table (i.e. this document) has been prepared and will be made available on SRK's website, along with the draft application document. SRK will notify all those on the attendance register once documents are available and a 30-day comment period will be provided. Once comments have been received on the draft document, the final application will be submitted to DMR and stakeholders will be notified of the availability of the final document for review. The need for another meeting will be assessed based on the comments received during the 30-day comment period.	
How can additional comments on the amendment application be submitted?	Comments are to be sent to the environmental consultant (SRK). A 30-day comment period will be provided for the draft application and all stakeholders will be notified once the draft application is available for download from SRK's website.	