



I write this submission as a reply to Rex Minerals proposal for its mining project at Hillside on the Yorke Peninsula. I am a farmer and grazier at Maitland and aged 45 along with my husband whom is also 45 and my two children aged 20 and 17 years. We are proudly the 4<sup>th</sup> generation of farmers to succeed this business and our plan is to inherit this to our children for its future security. My husband, children and I were born and raised here on the Central Yorke Peninsula and have a very vested interest in what happens with Rex Mineral Hillside project.

I can provide an in depth local view and knowledge of how this will impact on our lives and also the surrounding communities. My Mum who is aged 75years and my father who sadly passed away in August this year aged 81 years and my brother and his family, who is also a fourth generation farmer and grazier live next door through the neighbouring fence. The exploration of nearly seven years have taken its toll on my family, with continual disputes over light, noise, dust pollution not to mention continual bantering over offers to leave their home and business, which caused my family undue stress and grief and I believe this has undoubtedly contributed to the death of my father. My father was well when the exploration started at Hillside but in the latter part of the five years exploration he was diagnosed with cardiac amyloidoses and plueral effusion. Not knowing what amyloidoses is we were told by specialists that it is a rare bone marrow and blood disorder and they would see 3 cases in ten years, a 8 to 1,000,000 chance of getting this disorder. After further investigations on the internet, possible causes are radiation contamination. This raises a question of radiation contamination from the hillside site during exploration. As the proposal is now available for public viewing it has come to light that uranium, asbestos contaminants were identified and must have been extracted to the surface to get laboratory results. Were correct EPA guidelines met during this time?

I have spoken with Goeffrey Bradford, Senior planning officer EPA and Daniel Bellifemine, Team leader mining and environment EPA and cannot offer me a specific answer to that question but have assured me they are looking at the hillside proposal in depth to assure my community's safety in the future. I have to ask the question is this death a coincidence or are we posing a future threat to the health of the immediate and surround communities and environment? People's health and safety and well being should be paramount! For me it has been a very negative and life changing experience!

To move directly to the Hillside proposal, I have tried to read and understand the proposal document and have had great difficulty with the complex information provided, so have engaged with Geoffrey Bradford, Senior Planning Officer (policy and projects) EPA and Daniel Bellifemine, Team leader mining and Environment EPA, Erica Dearlove, Environment and Stakeholder management supervisor, Rex minerals Ltd, Steven Griffiths MP JP Member for Goyder, Rowan Ramsey MP member for Grey and tried very ardently to meet with the minister Tom Kousotonious with not even a confirmation email that I contacted his office and no meeting to discuss the Hillside proposal. I will provide evidence attached to this submission that I have done this.

File No: T2951  
Doc No: A1790694

I invite you to read the correspondence email from Erica dear love, Environment and Stakeholder management supervisor, Rex minerals Ltd. I simply asked questions about the hillside project and how this could impact now and in the future for myself my community. I strongly do not accept that the Hillside project will only last for 15 to 20 years and will make no attempt to refill the pit and return it how they found it as arable cropping land. That is no compromise at all to the current Agriculture industry which is the most predominant industry on Yorke Peninsula. The cropping land on Central Yorke Peninsula is indeed valued highly as it is one of the most reliable cropping sustainable areas in the state if not in the country. I invite you to contact the Council of Yorke Peninsula or lands department for current land values to substantiate this claim. I am also concerned with question 5, that responses to Rex minerals surveys that strongly indicate "the community prefer a mix of native vegetation and arable land, which will be delivered," as quoted. I have not received such a survey and during conversation to my family who live next door and other locals and also Steven Griffiths our local Member for Goyder they also do not recall receiving this survey. How then can this be a fair and accurate community preference if all locals have not been given the opportunity to be surveyed. Perhaps more consideration and effort on behalf of Rex Minerals Ltd needs to happen! I high light question 4. Will all the tailings be remove along with toxins produced by the mine? Answer: "The tailings will be encapsulated in line with our legal requirements which will prevent negative impacts on the surrounding areas. The mine does not produce toxins." I find this answer to be totally unacceptable. Reading the proposal states in section 5.8.2 Hazardous Minerals. Clearly this outlines Radioactive Minerals and Asbestos. What is quite disturbing to me and highlighted in Rex Minerals response to my questions about rehabilitating the mine after use is that there will only be very minimal effort taken to repair the damage in line with legal requirement, what ever that may be? As a local resident of Central Yorke Peninsula I do not understand the legal requirements of Rex minerals rehabilitation program but do understand that Rex Minerals Quoted in question 3 "the mine pit will remain, it is uneconomical to re-fill," and also question 14 quoted as "A purely underground mine is much less economic that the current open-pit/underground scenario". I find this to be totally unacceptable as there is no compromise at all to the surrounding Agriculture farming land and to the local communities.

Essentially Rex minerals will mine a very large pit for 15 to 20 years, on prime farm land, pollute the surrounding environment and potentially the waters of Gulf St Vincent with mine mineral extraction, waste products containing toxic material, light and noise pollution which will be for 24 hours, 7 days a week. When the life of the mine ends will leave the community with a very large pit, simply revegetated. How will the farming community re-establish itself if ever again? A piece of food security lost for ever! Not to mention a tourist gem of peaceful tranquillity by the seaside a mecca for city dwellers alike gone!

It seems like this mine project of Rex minerals is not a viable option to completely refill the mine pit or mine totally underground. Does this mean that this project is a mis match to the proposed location. Traditionally a project of this size and nature would be found in outback Australia, not in more densely populated areas. Will this set a new precedence in Mining in the future? Is this a legacy we want for our future generations to come?

Who is looking out for Agriculture and food security for the future? Why destroy with catastrophic proportions prime agricultural land that can never be farmed again. Who will feed our children? If mining continues to take precedence over food security where will it end? While overseas governments continue to buy our farm land in large proportions to secure their future food security, our government continues to encroach on farm land. When will it be too late for our own food security?



Katrina Nankivell



Marlton SA 5573



Dear Mr Koutsantonis

I would like to meet with you either by phone or in person to discuss urgent matters regarding Rex minerals proposal for a mining lease. It has come to my attention that uranium (5.8.2.1) and asbestos (5.8.2.2) articles listed on the proposal have been found during exploration. Were these exposures managed correctly as they would have been discovered before any official notification to Dimitre and has there been exposure to mine staff and residents situated in close proximity to the mine such as Black Point, Pine Point, James Well, Rogues Gulley. As we know radiation exposure can be devastating and take a number of years to become evident in the environment and humans, and with Gulf St Vincent within metres of the mine site and a capital city within a short distance as the crow flies, Pine Point and Black Point within a few kilometres with a permanent population. Are they at risk???

Kindest regards

Katrina Nankivell  
Resident and Business owner of Central Yorke Peninsula

Sent from my iPad

Sent from my iPad 19/09/2013  
With No Reply.

**Ashley and Katrina Nankivell**

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**From:** "Erica Dearlove" [redacted]  
**To:** [redacted]  
**Sent:** Tuesday, 1 October 2013 1:19 PM  
**Subject:** FW: Hillside Project response

Hi Katrina

Further to my previous email, response to question 10 should have stated:

10. Does Rex minerals identify contaminated water runoff, underground water, water capture points e.g. dams used for storage, could these all contaminate the Waters of Gulf St Vincent. What is your action plans for this? Could this also enter adjoining properties? Could this also affect animal and plant life ecosystems?

Rex has used external experts to model both the ground and surface water systems around Hillside. Run-off from upstream of the mine will be directed around the working areas, and Rex is required to retain all rain run-off from inside the mine-site ~~is required to be retained onsite~~ until EPA requirements are met. No saline water will be released from the mine. Rex plans that there will be no impact on the Gulf St. Vincent and in the unlikely event of a surplus, water will be re-cycled through the tailings dam system.

Sorry for any confusion.

Kind regards  
Erica Dearlove  
[redacted]

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**From:** Erica Dearlove  
**Sent:** Tuesday, 1 October 2013 12:00 PM  
**To:** [redacted]  
**Subject:** RE: Hillside Project response

Hi Katrina

Thank you for taking the time to seek answers to your questions in relation to the proposed Hillside project.

Please see each of your questions below in black and the responses below in green.

1. How long does Rex Minerals expect the life of the mine to be?  
Between 15 and 20 years
2. How do they plan to leave the site?  
In line with legal requirements, all rehabilitated areas will be self-sustaining.
3. Will it be returned to its former state compete with no hole?  
The mine pit will remain, it is uneconomic to re-fill.
4. Will all the tailings be removed along with toxins produced by the mine?  
The tailings will be encapsulated in line with our legal requirements which will prevent negative impacts on the surrounding areas. The mine does not produce toxins.
5. Will Rex ensure that it can be used as fertile Agriculture land as they found it?  
Responses to our surveys strongly indicate the community prefers a mix of native vegetation and arable land, which will be delivered.
6. Will all infrastructure built by Rex minerals be removed e.g. Slurry pipeline etc. that could be deemed contaminants to the environment?

It will all be made safe for alternate uses, removed or rendered inert.

7. What is Rex Minerals emergency plan if a negative incident occurred such as a radiation incident e.g. Pipeline malfunction, truck accident carrying copper products, uranium etc.?  
There is simply not enough uranium present at the site to create a radiation incident. The concentrate pipeline is double walled and has built-in leak monitors, no trucking is planned to carry copper concentrates. In the event of an environmentally significant spill of any kind, Rex will be held accountable by DMITRE and the SA EPA.
8. How will radon, copper, uranium be managed and dust emissions? Will these be monitored daily and by which authority?  
Dust emissions will be monitored continuously by the company and reported to DMITRE.
9. If clusters of residents or mine staff in the area take sick from known ill health effects such as specific types of cancers, lung diseases etc., what is your management plan?  
This type of mining has and does occur throughout the world, we are not aware of any connected health clusters. Statistical clusters do occur naturally, however Rex will be accountable where direct causality is established.
10. Does Rex minerals identify contaminated water runoff, underground water, water capture points e.g. dams used for storage, could these all contaminate the Waters of Gulf St Vincent. What is your action plans for this? Could this also enter adjoining properties? Could this also affect animal and plant life ecosystems?  
Rex has used external experts to model both the ground and surface water systems around Hillside. Run-off from upstream of the mine will be directed around the working areas, and Rex is required to retain all rain run-off from inside the mine-site is required to be retained onsite until EPA requirements are met. No saline water will be released from the mine. Rex plans that there will be no impact on the Gulf St. Vincent and in the unlikely event of a surplus, water will be re-cycled through the tailings dam system.
11. Will Rex Mineral ever use hydraulic fracturing to mine and if so where will the high volumes of water come from and how will the chemicals used with the water be stored during and after this process?  
Rex has no plans to use hydraulic fracturing, it is not applicable to this type of mining.
12. What is Rex minerals policy on weather related incidents such as a forecast catastrophic fire rating day. Will all staff and mine operations cease on these days?  
On catastrophic fire days, the Hillside site will be made safe.
13. Can emergency personnel e.g. CFS, Police, Ambulance enter Rex minerals premises any time under an emergency situation?  
Yes, in an emergency
14. Why is this mine not contained all underground? This would leave above ground surfaces intact and a compromise to current surrounding environment.  
A purely underground mine is much less economic than the current open-pit/underground scenario.

Please let me know if you require any additional information.

Kind regards  
Erica Dearlove

**From:** Ashley & Katrina Nankivell [REDACTED]  
**Sent:** Monday, 30 September 2013 11:06 AM  
**To:** Erica Dearlove  
**Subject:** Re: Hillside Project response

Hi Erica

I would like to ask more questions regarding your project at Pine Point.

- \* How long does Rex Minerals expect the life of the mine to be?
- \* How do they plan to leave the site? Will it be returned to it's former state compete with no hole? Will all the tailings be removed along with toxins produced by the mine? Will Rex ensure that it can be used as fertile Agriculture land as they found it? Will all infrastructure built by Rex minerals be removed eg. Slurry pipeline etc that could be deemed contaminants to the environment?
- \* What is Rex Minerals emergency plan if a negative incident occurred such as a radiation incident eg. Pipeline malfunction, truck accident carrying copper products, uranium etc.? How will radon, copper, uranium be managed and dust emissions? Will these be monitored daily and by which authority?
- \* If clusters of residents or mine staff in the area take sick from known ill health affects such as specific types of cancers, lung diseases etc, what is your management plan?
- \* Does Rex minerals identify contaminated water run off, underground water, water capture points eg. dams used for storage, could these all contaminate the Waters of Gulf St Vincent. What is your action plans for this? Could this also enter adjoining properties? Could this also affect animal and plant life ecosystems?
- \* Will Rex Mineral ever use hydraulic fracturing to mine and if so where will the high volumes of water come from and how will the chemicals used with the water be stored during and after this process?
- \* What is Rex minerals policy on weather related incidents such as a forecast catastrophic fire rating day. Will all staff and mine operations cease on these days?
- \* Can emergency personnel eg. CFS, Police, Ambulance enter Rex minerals premises any time under an emergency situation?
- \* Why is this mine not contained all underground? This would leave above ground surfaces intact and a compromise to current surrounding environment.

A reply by Wednesday 2nd October, 2013 would be appreciated.

Regards  
Katrina

Sent from my iPad

On 27/09/2013, at 11:17 AM, Erica Dearlove [REDACTED] wrote:

Hi Katrina

I am following up from our phone call last Friday.

Do you have any outstanding questions that you would like answered? Please email me your questions and I will ensure I give you a response.

Kind regards  
Erica Dearlove  
[REDACTED]

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**From:** Erica Dearlove  
**Sent:** Friday, 20 September 2013 4:44 PM  
**To:** [REDACTED]  
**Subject:** Hillside Project response

Hi Katrina

Thank you for your phone call today.

I am still currently following up further information to the questions that you ask today.

In terms of directly discussing concerns with the EPA, I have been informed that these enquires/concerns should be channelled through DMITRE (Department of Manufacturing, Innovation, Trade, Resources and Energy) as they are the lead government agency for the Hillside Project. Please contact them via their Customer Services line 8463 3000 or email the assessment officer Nathan Zeman on [nathan.zeman@sa.gov.au](mailto:nathan.zeman@sa.gov.au).

Kind regards

**Erica Dearlove**

ENVIRONMENT & STAKEHOLDER MANAGEMENT SUPERVISOR

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e [REDACTED]

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**Ashley and Katrina Nankivell**

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**From:** "Katrina Nankivell" [redacted]  
**To:** "Ashley Nankivell" [redacted]  
**Sent:** Monday, 21 October 2013 10:38 AM  
**Subject:** Fwd: Shine Lawyers

Sent from my iPhone

Begin forwarded message:

**From:** John Chimbari [redacted]  
**Date:** 26 September 2013 2:22:59 pm ACST  
**To:** " [redacted] " < [redacted] >  
**Subject:** Shine Lawyers

Dear Katrina

Thank you for giving us the opportunity to assist you.

Unfortunately it falls outside our area of expertise, which is Personal Injury Law.

However, we are pleased to provide details of the following organisation who should be able to assist you in going further with your enquiry.

Environmental Justice Society  
<http://www.environmentaljustice.com.au/>

We hope that you are able to find a resolution to your problem. If we can be of any help in the future, please do not hesitate to contact us.

Yours sincerely

John

**John Chimbari | New Client Team Operator**

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