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Business Support Officer
Mining Regulation Branch
Department of State Development
GPO Box 320
Adelaide SA 5001

RE: Kara Resources Pty Ltd dolomite deposit MC4322 - Nain

I would not like to see the application for a quarry get the go ahead on this area, which is prime agricultural land with a fail safe cropping history for this State, for the following reasons.

DUST & HEALTH

It only takes a very small amount of the very fine respirable silica dust to create a health hazard. Recognising that very small, respirable silica particles are hazardous.
Inhaling crystalline silica can lead to serious, sometime fatal illnesses including silicosis, lung cancer, tuberculosis (in those with silicosis), and chronic obstructive pulmonary disease (COPD). In additiion, silica exposure has been linked to other illnesses including renal disease and other cancers. In 1996 the World Health Organisation - International Agency for Cancer Research (IARC) identified crystalline silica as a "known human carcinogen" (they reaffirmed this position in 2009).
Silicosis is a disabling, irreversible, and sometimes fatal lung disease. When a person inhales crystalline silica, the lungs react by developing hard nodules and scarring around the trapped silica particles. If the nodules become too large breathing becomes difficult and death can result.
There are three types of silicosis:
* *Chronic silicosis* which usually occur after 10 or more years of exposure to crystalline silica at relativley low concentration.
* *Accelerated silicosis,* which results from exposure to high concentrations of crystalline silica and develops 5 to 10 years after the initial exposure, and
* *Acute silicosis,* which occurs where exposure concentrations are the highest and can cause symptoms to develop within a few weeks to 4 or 5 years after the initial exposure.

Silicosis is a progressive disease - meaning it continues to get worse, even when exposure to respirable silica has stopped.
Dust from blasting and general quarry work can carry for kilometres with the wind, but there is also dust from trucks on dirt roads which will cause problems for other traffic and homes in the area. A big problem will be dust floating into surrounding crops which could then be classed as inferior when taken to the silos, the personel at the silo can decide not to accept their load.

TOURISM

Nain is part of the Barossa, one of South Australia's best known tourist attractions and is also within a very short distance of the Heysen Trail which traverses Greenock through Nain before heading to Kapunda. This is widely known by hikers and people come from all over Australia and overseas to walk this trail. There ae a number of wineries in the area as well. Many come to see this beautiful area, due to the past series of filming McLeod's Daughters.

PROPERTY VALUES

Nobody wants to own a property or live near a quarry so if a person decides to sell they will not be able to get a reasonable price at sale, especially as this quarry is set to be a long term project.

TRAFFIC

It has been stated that trucks will leave and return to the quarry by Old Kapunda Road, right on to Daveyston Road and turning left into Thiele Highway which is in need of repair since heavier trucks now have access to it.

Old Kapunda Road is dirt and barely wide enough for two trucks to pass each other so would need to be widened and metal laid, this would be difficult because it is next to a creek which goes into the Walkers Creek catchment and then leads into the Para River. **This road is between Sturt and Thiele Highways and is an integral part of the farm vehicle corridor for farmers to move their harvesters, seeders, tractors and other machinery as well as the movement of sheep and other farm animals from paddock to non adjoining paddocks.**

The biggest problem then would be entering Daveyston Road, A normal truck is 42.5 ton gross, a B-doble has a 62,5 gross tonnage. The corner of Old Kapunda Road, Daveyston Road and Kuhlmann Roads is on a bend with limited visability of oncoming traffic. There are three bridges on Daveyston Road and all would have to be upgraded to carry the extra weight. The road itself is in very poor condition and would also need to be much wider.

A narrow bridge is immediately left on the Daveyston side, the driver would have to move to the wrong side of Old Kapunda Road to make the turn and the probability of hitting the bridge rails is high as they are narrower than the width of the road. To turn right towards Freeling a heavily wooded area limits the view of oncoming traffic.

At the turnoff to Thiele Highway the Daveyston Road veers to the right, to turn left trucks would have to make a wider turn which will put them in the oncoming traffic lane. This junction has approximately 100 metres visability to the right where the road dips (towards Kapunda), towards Gawler the road dips again about 200 metres. Always a dangerous intersection.

WATER

Many farms in the area do not have mains water and rely on bores for their water and as the aquifer is low the flow is light. The quarry intends to bore into this which would put farmers and their stock in danger of water quality and not having enough water for their basic needs, therefore closing down parts or all of their farming enterprises.

Run offs from the quarry would go into the aquafer and also to Walkers Creek which flows on into the Para.

BLASTING & NOISE

The noise of the blasting is something we are all going to hear in this area but it is also the vibrations that will be felt throughout as well, these vibrations will have a huge impact on water courses, buildings and soil movement.

Between blasting, machinery and trucks this peaceful area will be no more. Sheep, cattle, horses and household pets will suffer with their accute hearing, blasting will cause them fear.

Please do not destroy our farmland.

Print name Christine Hegarty

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Date 04/09/16 **Sign** C. Hegarty