

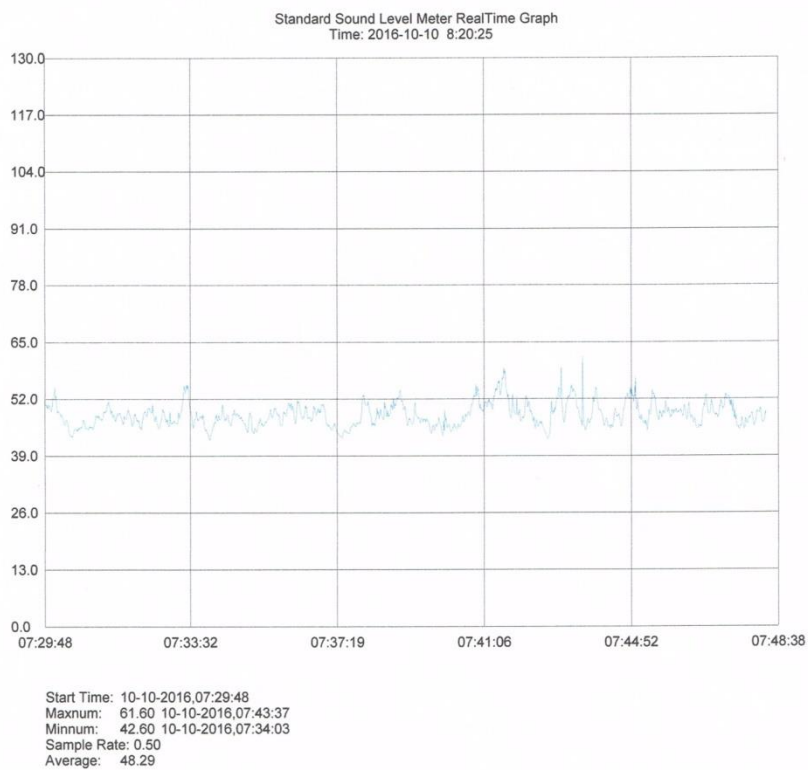
ATTACHMENT 3

SUBMISSION PM & DC BROADHEAD

INVERARY PARK, 40 BROADHEAD LANE, BUNGONIA

OBJECTION TO ARDMORE PARK QUARRY MODIFICATION (MP 07-0155 Mod 3)

QUARRY NOISE



The Noise from the Quarry is significantly impacting on our Amenity.

Increased Hours of Operation for product Loading & Transportation

The proposed hours of operation are totally unreasonable for the adjoining & surrounding landowners of the Ardmore Park Quarry. Our further loss of amenity has not been taken into account at all.

The current hours of operation are supposed to be 7.00am to 6.00pm Monday to Friday and 8.00am to 1.00pm Saturdays.

Being right next door we hear mine operations before 7.00am, sometimes running a pump and often between 6.30am and 7.00am you hear the sand processing and trucks entering or leaving. The early mornings & late evenings often bring with them 'temperature inversions' which amplify the noise created by the quarry. This can continue sometimes through the day when we often hear the beeping of reversing trucks, buckets of machinery scraping the rock in the quarry, the constant hum of the sand processing and trucks gearing in and out of the Quarry site.

To increase these hours to 5.00am - 10.00pm Monday to Friday and 5.00am - 5.00pm Saturdays would mean that neighbours would have to put up with this noise for 17 hours a day. The area here is Zoned Rural Residential and Farmland which is a quiet occupation of the lands and many residents have moved here for this very reason and some have been here all their lives. Its bad enough that we have to put up with the noise for 11 hours/day as it is, but to awake to this noise 6 days a week and go to sleep with it 5 nights a week is not acceptable. This impacts on our amenity significantly and it takes a toll on mental health and relationships. It also impacts on other neighbouring properties with noise carrying on the directional wind changes.

The quarry states that there will be no operations before 7.00am and after 7.00pm only loading of trucks and trucks driving in and out. We suffer the noise now from loading, truck gears, etc and they have not conducted any monitoring of neighbouring properties to see what the levels are except one which was very questionable. So how can they say there wont be any noise when we know there is, in fact its noisier in the mornings and evenings.

As part of the Conditions of Consent the crushing and screening components of the hard rock processing plant where supposed to be enclosed in sheds to reduce noise to neighbours (See first highlighted area page 3)

As part of the Conditions of Consent the operation times were supposed to be adhered to. They start prior to 7.00am on many occasions. **NOTE: EPA LIC NO. 13213 L4 - Hours of Operation Quarrying processing & transportation M-F 7.00am to 6.00pm & Saturday 7.00am to 1.00pm.** (See second highlighted area page 3).

As part of the Conditions of Consent noise monitoring would be taken at nearby residences namely Resident 3 (which is us) Resident 7 was bought out as part of their Conditions of Consent. See Monitoring 4.2.8 – Monitoring Locations (See third highlighted area page 3). The monitoring of our property has never been done, even though we have told Multiquip personnel that we experience noise issues.

See EIS – **Noise 4.2** January 2005

4.2.5 Design and Operational Safeguards

- Existing topographic features have been used wherever possible to provide a natural acoustic barrier between the noise generating activities and surrounding residences, namely:
 - the proposed combined extraction area would remain to the south of an east-west oriented ridge in the north of the Project Site and within a depression formed by two smaller north-south oriented ridges on the Project Site; and
 - both fixed processing plants would also be located within this depression and situated on hardstand areas constructed by cut and fill methods, further lowering the position of the plant relative to existing ground level.

- An acoustic bund wall would be constructed to the west of the internal road network, around the sand washing plant and extend around the southwestern perimeter of the southern sand extraction area.
- The crushing and screening components of the hard rock processing plant would be enclosed leaving openings only for conveyors. The enclosures would be constructed of Panel-Tech Thermaspan Colorbond panels and have been calculated to reduce emissions from the equipment by 8 dB(A).

Additional to these design features, Multiquip would implement the following of operational safeguards to further reduce the noise generated by the proposed quarry.

- All hours of operation would be strictly adhered to, ie. no equipment involved in extraction, processing and associated activities would operate before 7:00am or after 7:00pm.
- All equipment on site would be regularly serviced to ensure sound power levels of each item remains at or below that nominated for noise modelling purposes (see Table 4.14). The internal road network would be graded as required to limit body noise from empty trucks travelling on the Project Site.
- Noise monitoring would be undertaken at nearby residences and the results and performance of the quarry discussed with local residents and landholders. Monitoring is further discussed in Section 4.2.8.
- Extraction from the southern sand extraction area would commence at the northern extremity of Stage 1 and move progressively southward toward Stage 2. This would ensure acoustic shielding afforded by the active and completed quarry faces to residences west and southwest of the proposed quarry is maximised. This sequence would also enable the noise generated during the initial stage of extraction to be monitored and the need for additional safeguards or controls as extraction approaches the southwestern corner of the southern sand extraction area, ie. the closest point to Residence 7.

4.2.8 Monitoring

A program of noise monitoring would ultimately be implemented following discussion and consultation with neighbouring landowners and the DEC. However, given the predicted exceedances of noise criteria into the noise management category, the following noise monitoring locations and procedures are considered appropriate.

Monitoring Procedure

- A period of unattended noise monitoring to be undertaken to be taken during construction activities (for 1 week preceding commencement of operational activities) and for 1 week following commencement of operational activities.
- Attended monitoring would be undertaken simultaneously to the unattended monitoring at representative locations around the Project Site near the start and finish of the monitoring with the various activities noted.
- The results of this initial noise monitoring would be compared to the noise modelling predictions provide in Section 4.2.6.3 in order to establish the accuracy of model predictions.
- Should the model predictions prove accurate or an overestimate of noise generated by the proposed quarry, annual noise monitoring would be undertaken at or adjacent to those assessment locations identified as being most affected.
- Should the model predictions prove to an underestimate of noise generated by the proposed quarry activities, monitoring would be again undertaken following modifications to quarry activities in order to reduce noise levels.
- Following continued compliance with noise criteria, Multiquip would apply for a relaxation of monitoring requirements such that monitoring would only be undertaken in the event of community complaint.

Monitoring Locations

Multiquip proposes to establish two monitoring locations for unattended noise monitoring subject to the permission of the respective land owners. These would be at or adjacent to Residences 3 and 7 where the majority of the noise exceedances were predicted. The locations would be positioned to allow for accurate comparison between the predicted noise levels presented in Section 4.2.6.3 and those monitored at the residence.

We have complained over the years about noise, but they have never done any noise monitoring here accept for the original monitoring to establish noise limits. We are Residence 3 and our noise level here is 35.

We reside at **residence 3 - Figure 3 Sensitive Receptor Locations** (See Appendix 7 – Noise Impact Assessment – see below) which is approximately **700 metres** from the eastern property boundary of Ardmore Park Quarry. (Spatial Information exchange <https://six.nsw.gov.au/>)

This property has been totally ignored for any noise monitoring.

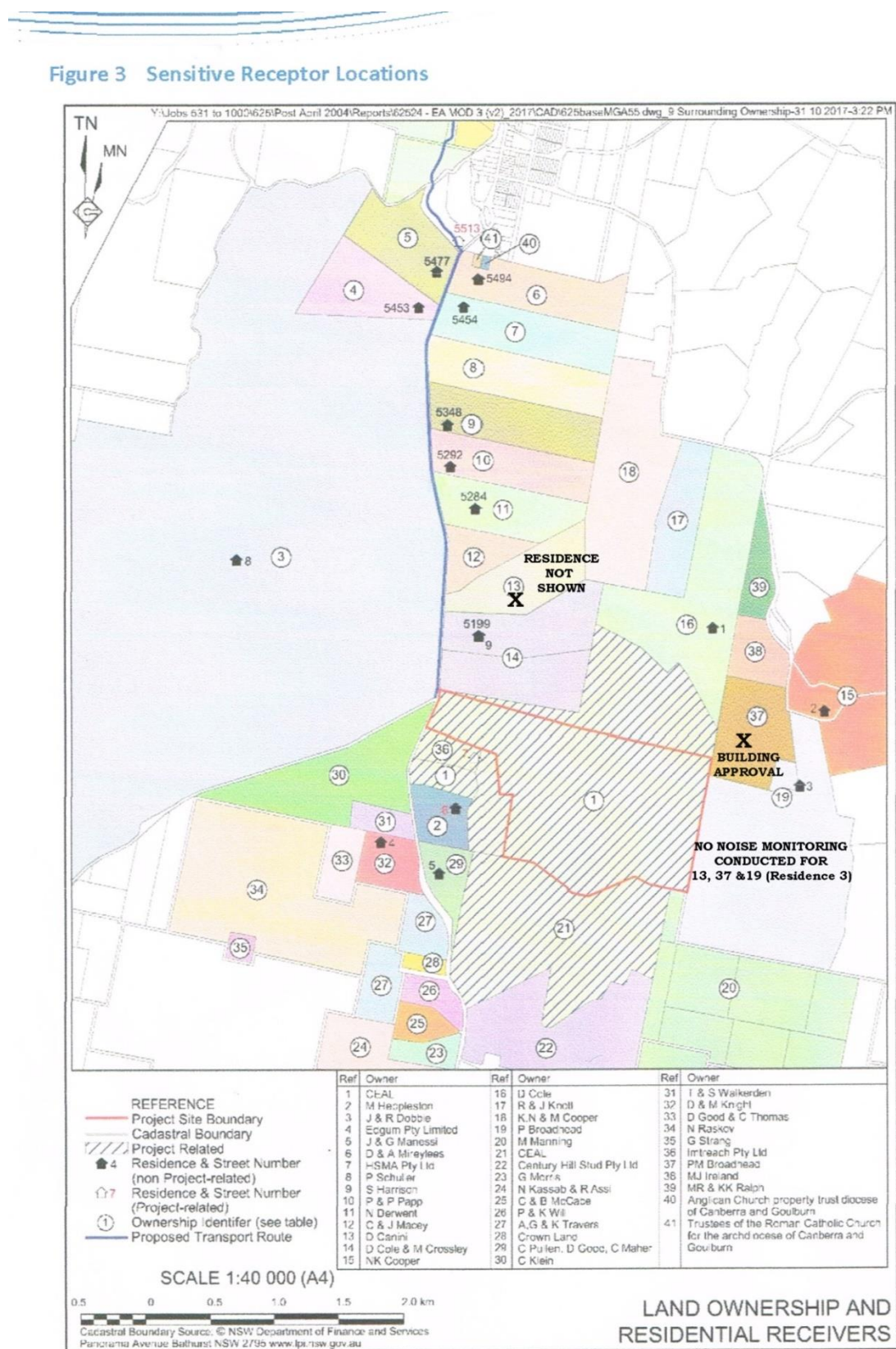
We also own vacant land at 46 Broadhead Lane, Bungonia (approx.100 acres with building approval) **Ref 37** on **Figure 3 Sensitive Receptor Locations** (See Appendix 7 – Noise Impact Assessment – see next page) which adjoins the Eastern boundary of Ardmore Park Quarry. The best building site for this property is close to power lines & pole which is approximately **300 metres** in a direct line East of the Quarry boundary. (Spatial Information exchange <https://six.nsw.gov.au/>)

This property has been totally ignored for any noise monitoring.

Further to these, we own property 5224 Oallen Ford Road, Bungonia, **Ref 13 on Figure 3 Sensitive Receptor Locations** (Taken from Appendix 7 – Noise Impact Assessment – see next page). This residence is only **445 metres** NE from the closest point of the Ardmore Park Boundary. This residence is currently rented and the dwelling has been there since 1992. In the Noise Impact Assessment (Appendix 7) - Land Ownership and Residential Residences (page 11) It has not been listed as a Sensitive Receptor even though houses further away such as Residences 1,2 & 8 have.

This property has been totally ignored for any noise monitoring.

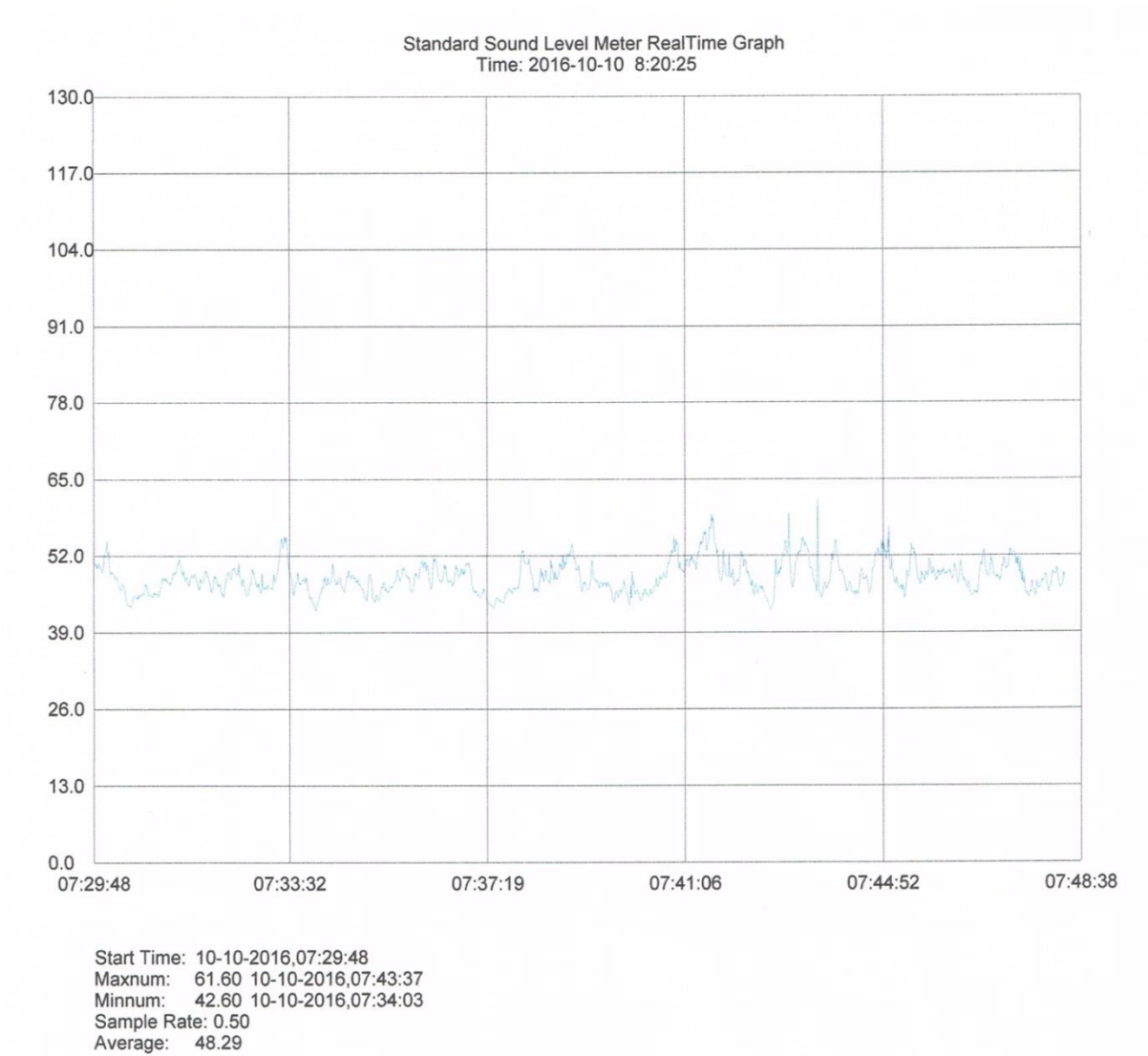
FIGURE 3 SENSITIVE RECEPTOR LOCATIONS



After complaints not being responded to by the quarry, we started gathering proof of the noise emanating from the Quarry and this is one recording was taken on 10 October 2016 when the Quarry was crushing hard rock. This was a noise that was becoming more frequent and we wanted proof of the levels. **Average dB 48.29**

We can supply Excel data if needed.

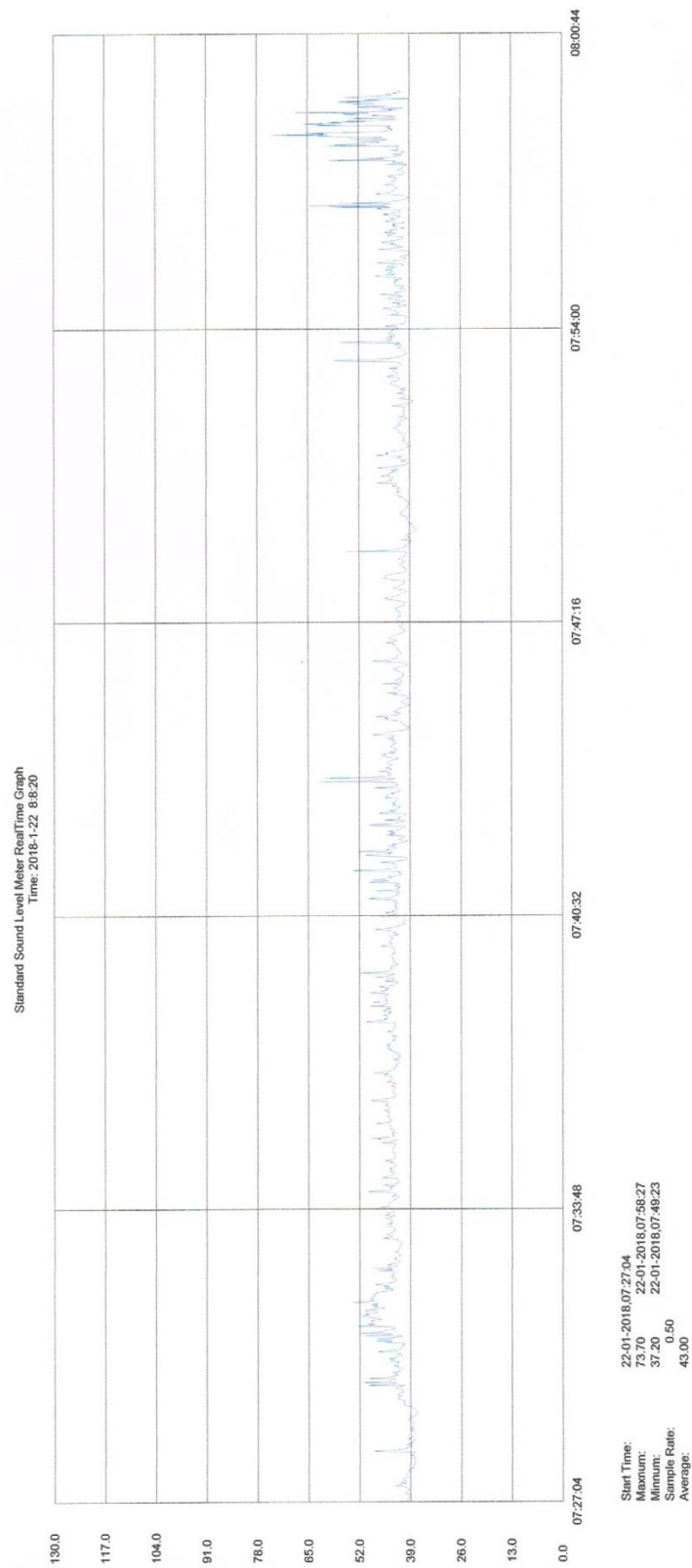
This graph was logged on a Calibrated Digitech Sound Level Metre. It confirms to the IEC61672-1 CLASS2 for Sound Level Metres.



This recording was taken on 22 January 2018 when the Quarry was Sand Processing. This noise had been going for quite a few days and we wanted proof of the levels.

The average dB was 43.00

This graph was logged on a Calibrated Digitech Sound Level Metre. It confirms to the IEC61672-1 CLASS2 for Sound Level Metres.



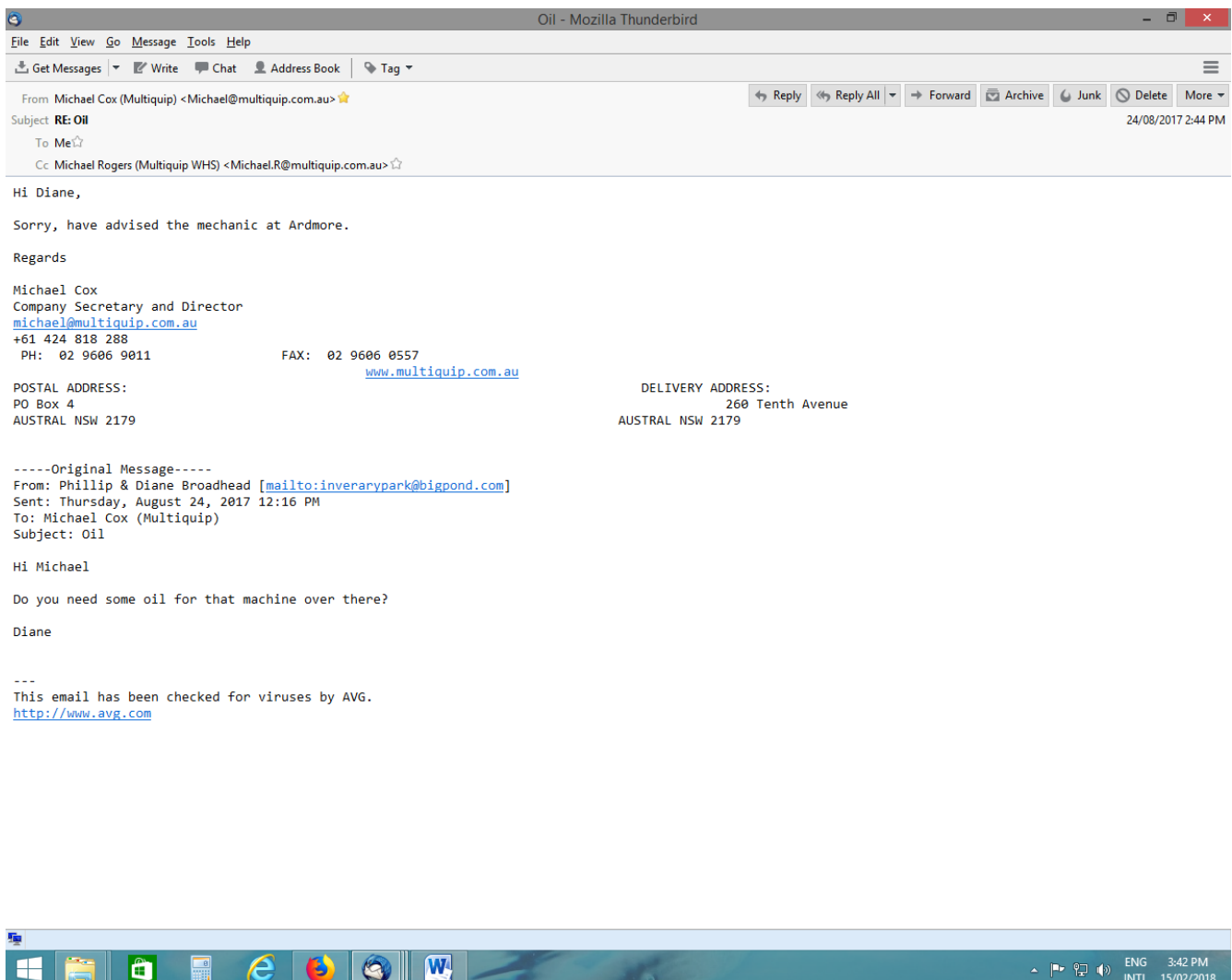
In regards to 3.5 Noise Complaints Summary - Appendix 7 Noise Impact Assessment

To say they have had such a minimal amount of complaints about noise is extremely misleading. Neighbours have been complaining to the Department of Planning and the EPA after not having any response from Multiquip.

We have in past years complained to Steve & Jason Mikosic verbally about dust, water & noise to which they said they would 'look into it'. After not hearing back from them, we then decided to contact the Planning Department and then later the EPA to which we have been liaising with both in regard to all of these issues.

Last year we were introduced to Multiquips Liaison Officer, Mick Rogers who insisted that we contact himself in regard to the problems regarding noise, dust, water etc and that he would ensure that we had a response to our issues and for us not to contact the EPA & Planning as we could resolve issues more quickly if we spoke with him direct. We tried this on the dust issue and were very disappointed with his response (see attachment 2) and therefore have continued our complaints with Dept Planning and EPA.

It looks as though emails such as below don't get mentioned either. This was sent after a terrible piercing squeal was heard coming from machinery at the quarry. We don't know how long it would have gone on for if we hadn't complained in writing.



Operation of Bitumen Pre Coating Plant

The proposed Bitumen Pre Coating Plant would be another source of noise, which would contribute to the already unmonitored noise levels. This proposed plant would require further extraction of material, further crushing & processing to reach desired sizes or material required for the bitumen to be pre-coated.

It would also have a pump that would also create further unmonitored noise and further machinery & trucks in which to load the product for dispatch. A 0.5 to 1m metre bund wall to contain water is not going to give any relief from the continual noise of this processing area.

I also note that they have not stipulated in the Proposed Modification as to what type of Bitumen Plant this would be, ie: cold mix or hot mix which leaves it wide open for them to change to whatever type of Bitumen Plant they choose to in the future without consultation. The processing of bitumen is very different for hot mix, cold mix & spray sealing and this may have further impacts on neighbouring properties.

Increase in size of Extraction Area & Increase of Annual Production

The increase in size of the Extraction Area and subsequent annual production would increase the amount of noise to neighbours. We believe the increase of the Extraction area 'to better align machinery' is not the reason for the increase in size. We believe it is so they can produce a reason for them to ask for an increase in their annual production and therefore ask for longer hours to process it and move product. They are also putting off placing processing equipment in a shed and with the further extraction size this could take years if at all.

The reason behind our thoughts is that we had a meeting with members of Multiquip personnel on 28/7/17 in regard to the draft Proposed Modifications. During this meeting we complained about the amount of noise we endure from the mine (not noted in their complaints section) and they implied that by increasing the extraction area, they could put the machinery down into the 'pit' which they believe would help us with the noise. We had a tour of the site and asked why don't they put the machinery down into the pit now (there is room) and then we can see for sure if the noise would be reduced. A comment was 'that's a good idea', however, they never did try it out. This would have given us the answer if the noise would be reduced.

The quarry knows that the adjoining neighbours suffer noise, they have been told by every one of them, but they choose to ignore this fact.

We had the EPA come to our property one day to conduct a small noise test with the quarry involved. We were waiting for the machines to fire up so we could detect the noise and it was so quiet that the EPA had to phone them to see if they had turned on the machine. So the next day when the EPA was not here we took a video of the machines & noise as they must have found some rocks to put in it that day.

Acceptance and management of ENM, in addition to Virgin Excavated Natural Material (VENM), as a backfill material

Again, noise from machinery to off-load material and excavate the ground for dumping and covering.

Importing of ENM and VENM to backfill the extraction area to return the land for agricultural production, or other land use sounds great. However, the problem with self - monitoring allows for it to become a dumping ground for foul waste like asbestos. It should be signed off on by an independent authority and documentation placed on the Multiquip website for public viewing. This way there is accountability.

Increasing Annual Production from 400,000 to 580,000 tpa & Increasing Truck Movements from 88 to 124

Increasing the Annual Production from 400,000 to 580,000 and Increasing truck movements from 88-124 would create a significant impact on neighbours increasing levels even further. This would be from the Sand Processing as well as the Hard Rock, trucks coming and going, Machinery Loading and shifting product. Trucks gearing in and out of the quarry. This proposal is a gross violation of the amenity of the neighbours and should not be granted. They have proved over the years that they do not take the noise seriously with neighbours and are still running off modelling from 2005.

CONCLUSION

The original EIS which forms the Conditions of Consent for the Quarry did not take into account all surrounding neighbours property that may be affected by noise and they are still using this outdated data in the new proposed Modifications.

When the EIS was compiled January 2005, noise levels were all based on modelling of suggestion because the quarry was not operating then. We now have proof that the quarry is noisier than their predictions stated back then, but Multiquip chooses to ignore the noise complaints hiding behind out of date modelling.

See EIS – **Noise 4.2** January 2005 (page 3) - They have been operating since 2009 and have not fulfilled the conditions of consent. They were supposed to place the crushing and screening components of the hard rock processing plant in sheds. This was to reduce emissions and noise by 8dB. This was never done.

They have not conducted noise monitoring on nearby residences as stated they would and again in **4.2.8 Monitoring** which states that they would have unattended noise monitoring at 2 residents places one being bought out by the quarry (Res 7) and us (Res 3). (See page 3). We have no monitoring and even after complaints about the noise, we have never been offered any.

They have not adhered to their operation times starting earlier than 7.00am which is heard by adjoining neighbours.

The proposed hours of operation are totally unreasonable for the adjoining & surrounding landowners of the Ardmore Park Quarry. To increase the hours from 11 hours a day to 17 hours is creating a massive impact on the amenity of neighbours. Machinery Loading, beeping of reversing machinery, trucks gearing in and out of the quarry on a still night as well as on the winds, would be amplified.

The Quarry hours should not be allowed to be modified. If the Quarry Wants to operate at these proposed hours they should buy out all the surrounding neighbours like the other Quarries in the district have. That will give them the flexibility they are seeking to operate at these hours and allow neighbours to move on with their lives.

Operating a Bitumen Plant, Increasing truck movements, receiving excavated material for landform rehabilitation, increasing the extraction area, etc all the things we object to, will all add to further noise impacts on neighbours.

The impact that the sand processing is having on neighbours with continual droning of machinery, tuck loading and washing is also a huge annoyance to neighbours.

There have been many complaints and yet they only refer to a complaints register, not calls to their mobiles, emails & verbal complaints have been made. And people are being referred to call the Liaison officer not the complaints register and there appears to be no list of those complaints to the Liaison Officer.

Multiquip mine approval was granted in 2009 and they have been operating for some time now with huge impacts on neighbours regarding noise. They have shown no regard for the neighbours amenity and have significantly mislead the amount of complaints that have been made.

They have had no input into the community until last year when it was part of their Modification Application that they had to deal with the community. Up until then the community had been treated with disdain.

Self-monitoring of Noise has not worked for this company, it has been 8 years since its approval and complaints have been ignored and Monitors still have not been put in place to record noise levels.

The two Residents 6 and 9 that are stated in Appendix 8 Air Quality Assessment as being monitored, had a quick test on a day when the quarry was well aware it was happening. This test should have been conducted under an independent source and not when the quarry could manipulate the situation to suit.

The Quarry should be denied the Modifications of any Proposal until they fix the existing problems first.

- **There should be independent noise monitoring stations that are not associated with Multiquip which would be Long Term & Real Time Noise Monitoring (if it exists) at adjoining properties, so residents can show proof of what is actually happening instead of Multiquip using outdated modelling as an excuse to ignore neighbours. Not just a quick day test, that can be interfered with to gain a desired outcome.**
- **The proposed Modifications should be denied until they put the processing equipment (hard rock & sand processing) into sheds.**
- **Production stopped until all their obligations under the Conditions of Consent have been addressed.**

If this cannot be done, then the Quarry should be made buy out the neighbours.

Phillip & Diane Broadhead

25 February 2018