

the effect on neighboring properties and there is a legal limit for that to travel.

Caron read an example from Keith Babb stating the most common drill is a four inch which will make a five and a half inch hole going down 58.4' so if the applicant does not know the depth, width of the hole, distance between holes, they will not know how much gun powder to use to do the blasting.

This example is based on holes 6' back and 4' apart and blasting three rows at a time. If you make short holes, there is drilling at a shallow depth but the holes have to be close together and the higher the depth, the further back the holes have to be and the bigger the holes will get; however, this information is unknown for this proposal.

Bentley stated this is why the engineers will come in and study the site. They make the determination based on the final outcome that Jon is looking for. Every site is different, and the report submitted is from a much larger pit.

Caron asked what type of crusher will be used: a cone? Champagne explained gunpowder is not used; you space the drilling out depending on how big you want the piece of ledge to fall, so the closer you drill and the closer your charges are, the finer the rock will fall.

There are two different pieces of crushing equipment: a jar crusher and a cone crusher. Normally you use the two in unison. A jar crusher can crush up to a 2½ to 3' diameter piece of rock. These drill depths are going to be approximately 15' to 17' – in talking with the drill master. Small blasts will be the first thing done to develop a face and lifts for that site and that is where they obtained the information they have. You can only drill so deep on the terrain.

Phelps asked which type of crusher will be used, and Champagne responded Keith Babb is contracted to do the drilling and blasting, and he will be using identical equipment to what he uses for the crushing for the Town of Andover.

Caron stated that he is pretty sure Babb has a cone crusher and also stated that there are actually three types of crushers: a jar, a gyro and a cone, and the cone crusher is the loudest.

Champagne stated that Keith Babb has been to the Zoning Board and to the Planning Board and has made his presentations. Bentley stated that all of this data is on file with the application that will answer most of these questions. Bentley stated he does not know the brand name of the crusher, but the decibel reports that they received at the source of the machine are in the report.

Sound is the same no matter what brand of crusher you are using. Blasting is handled by the engineers – they determine which size hole is drilled, how deep they go, how far the holes are spaced apart. All of this is within the guidelines set by the EPA, MSHA, OSHA, and the

State of New Hampshire DES. This is a highly regulated industry.

Jill Colardeau asked if there would be two crushers on-site, and Teach stated that is what she heard. Caron stated he was only asking about one, and if there are two, one would be a primary and the other a secondary. And from the size of the stone it is indicated will be made, there will be a secondary crusher.

He also read that Babb states he will not be using a blasting mat. He is concerned with how they will stop the rock due to the small width holes as the bigger the nuggets, the more control you have over the over-blast.

Schmidl stated that it was stated that they would be trying to infiltrate the stormwater into the ground on-site, and it could provide a migration pathway to the nearby wells.

Allen asked if there has been any thought given to the trickle-down effect of any radon being released from the granite as it's being blasted. The response was radon has a very short life and as the blasting opens up the rock, the radon would dissipate very quickly as it's a gas, so it should not impact the water as it will be above the water table.

Schmidl stated that the applicant plans on infiltrating water at the site to get it in, which will trickle down to the water table and provide that migration mechanism.

Champagne stated that the loudest piece of equipment will be the screener with its initial startup and shut down and asked if Caron could provide him with his own sound chart at his pit and they could use that in comparison to what their equipment will be on the decibel and noise.

Phelps stated that it sounds like what they want to know is the point source dB for the three pieces of equipment. Caron stated that they had information on the drill, crusher and excavator, but there was no decibel sound on the screen beyond the driveway and the screen is louder than the crusher and it is not the start-up and shut-down, it's the rattling.

Schmidl asked if there had been any suggestion as to whether there would be any site-specific testing to see how the sound carries on that site given its unique topography. Teach stated the board would take that under advisement.

Colardeau stated she was concerned with the children waiting for the bus on the end of Bay Road.

Grenier asked if the plans submitted to the Town were the most up-to-date plans, and the response from Teach was yes.

Bentley addressed the vegetation buffers and the fencing at the top that was required by the ZBA, stating that they were added to the most recently submitted plans. Seufert stated that these were points that the LRPC addresses.

Barnes asked how many loads are anticipated on a daily basis, and Bentley

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