

# Conversation Contents

## KMC erionite draft statement

**"Cave, Shelby" <scave@blm.gov>**

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**From:** "Cave, Shelby" <scave@blm.gov>  
**Sent:** Fri Jul 07 2017 17:56:38 GMT-0600 (MDT)  
**To:** "Hawes, David (Rem)" <rhawes@blm.gov>, "Buttazoni, Brian" <bbuttazoni@blm.gov>  
**Subject:** KMC erionite draft statement

FYI... From your perspective do you feel this is appropriate? accurate?

In response to the KMC mining exploration permit AZA 36808 the BLM tested multiple localities of the exposed surface strata and existing stockpiles of pozzolanic material from the historical Kirkland Quarry area and found no minerals with composition matching the erionite group of minerals or any asbestos-type minerals. There is silica present, most of which is non-crystalline silica in the form of volcanic ash and pumice. Some material has a trace of crystalline silica. Crystalline silica is common in almost all quarry and mining operations but can be harmful if a high enough concentration of very small particles are lofted airborne and inhaled. The presence of respirable crystalline silica will need to be mitigated according to OSHA and MSHA standards and monitored by the appropriate state and federal agencies.

In response to the KMC proposed mining and reclamation plan AZA 37212 the BLM is also currently in the process of additional geochemical testing of the subsurface strata that would potentially be excavated by the Kirkland Mining Company in the location of the proposed open pit over approximately the next five to ten years.

This testing is part of the BLM environmental analysis process. Once the initial testing is completed by the BLM as part of the review of the proposed mining and reclamation plan, monitoring of airborne carcinogens will be handled by the appropriate state and federal agencies.

Thank you!  
-Shelby

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Shelby R. Cave, PhD  
Geologist | Hassayampa Field Office  
Phoenix District | Bureau of Land Management  
[office] 623.580.5639  
[fax] 623.580.5580

**Brian Buttazoni <bbuttazoni@blm.gov>**

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**From:** Brian Buttazoni <bbuttazoni@blm.gov>

**Sent:** Mon Jul 10 2017 08:16:50 GMT-0600 (MDT)  
**To:** "Cave, Shelby" <[scave@blm.gov](mailto:scave@blm.gov)>  
**CC:** "Hawes, David (Rem)" <[rhawes@blm.gov](mailto:rhawes@blm.gov)>  
**Subject:** Re: KMC erionite draft statement

Looks good but the last statement about airborne carcinogens sounds like we've concluded they are present. Is that the intent? Brian

Sent from my iPad

On Jul 7, 2017, at 4:56 PM, Cave, Shelby <[scave@blm.gov](mailto:scave@blm.gov)> wrote:

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**From:** "Cave, Shelby" <[scave@blm.gov](mailto:scave@blm.gov)>  
**Sent:** Mon Jul 10 2017 09:08:56 GMT-0600 (MDT)  
**To:** Brian Buttazoni <[bbuttazoni@blm.gov](mailto:bbuttazoni@blm.gov)>

**CC:** "Hawes, David (Rem)" <rhawes@blm.gov>  
**Subject:** Re: KMC erionite draft statement

No, thanks for the catch. "Potential" airborne carcinogens :)

On Mon, Jul 10, 2017 at 7:16 AM, Brian Buttazoni <[bbuttazoni@blm.gov](mailto:bbuttazoni@blm.gov)> wrote:

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Phoenix District | Bureau of Land Management

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