

Research and Mineral Mapping Subcommittee  
Draft Meeting Minutes  
May 3, 2021  
9:00 a.m.

**Roll Call**

Tim Eisele – present  
Steve Kesler – present  
Snehamoy Chatterjee – present  
Adam Wygant – present  
Sharon Schafer – present  
Mike Sweat – present  
Peter Rose – absent  
Sharon Schafer – present  
John Yellich – present

**Guests**

None

The meeting began at 9:33 a.m.

At the last meeting we discussed leaving stuff in like the intro, and it will go at the front end. Go to critical minerals as that's our loose end.

I don't know why we're citing references. We identified Norilsk in Russia, so we need to site it. What is the reference for?

It's used to help develop Eagle nickel-copper deposits in Marquette. Trust fund was deleted. We added potash. Perhaps additional language to be add by Bill.

We are looking at deposits we know about. Try to pull together all the data. We are looking at waste rock or other mining areas. The objectives of mineral-related research is where we put critical minerals. They way it reads, we're putting in a USGS table.

Can we reference the 35 critical minerals? People don't understand. The table was put together in the initial reports. We should identify the eight. We should include all of them. The discussion was about all 35 critical minerals. Turn into a table or whatever. The list of eight has known potential. The other of the 35 has no significant potential based on published literature.

We shouldn't put "see table." At the end of the paragraph, we included a table of all the critical minerals by USGS. Another table with the eight highest potential. Put in as text

or appendix? We should list the eight identified. One of the most important reasons is to get critical mineral shortage in the United States. It came from the executive order in 2017 by President Trump. Eight of the 35 are known to have real potential in the state as indicated in the table. The table of 35 elements could be an appendix as it's really long. Eight have possibilities in Michigan. We could do a footnote that the federal register is showing the 35 minerals. Can we do three columns in the document and put it in there? We don't need all the columns from the table – that's working copy. The eight minerals are: lithium, magnesium, platinum group, metals, potash, rare earth elements, cobalt, graphite, and manganese.

Some are known to have formed interesting concentrations. Some are commercial producing. Cobalt is being produced at Eagle mine. We could say that eight have been produced or are in mineral deposits in Michigan.

We can delete the comment by Kirk Lapham. It was a reminder.

The paragraph we were just working on needs some wordsmithing. It sounds like we need to see who will polish up the final version. Mike will wordsmith and work with Peter.

The whole committee meets on May 25. Mike will send out the document, get your comments to him, and he'll put them in the final document.

### **Public Comment**

None.

### **Adjournment**

The meeting was adjourned at 10:06 a.m.