



COLORADO
Division of Reclamation,
Mining and Safety
Department of Natural Resources

Date: October 13, 2021

To: Peter Hays

CC: Jason Musick, Jared Ebert

From: Zach Trujillo

RE: Walstrum Quarry AM-09, DRMS File No. M-1983-033
Slope Stability Review

Peter,

As requested I have reviewed Walstrum Quarry's (Walstrum) adequacy response to the Division's geotechnical review memo #3 dated September 21, 2021. The following comments were provided to Walstrum:

1. *Please have Walstrum confirm that the appropriate seismic condition was applied to the Sensitivity Analysis provided in the Exhibit.*

As part of Walstrum's response dated September 30, 2021, supplemental information was provided with their response that showed the seismic coefficient of 0.12 used within the Sensitivity Analysis along with the corresponding factor of safety provided in the geotechnical stability report of a 1.15. **Based on Walstrum's response, this item has been satisfied and there is no further comments regarding this adequacy item from the Division.**

2. *If the appropriate seismic condition was applied to the Sensitivity Analysis provided in the Exhibit, please have Walstrum provide the numerical results that outline all parameters, variables and results for the Sensitivity Analysis for the Division's review.*

As discussed in Walstrum's response to this item, the geotechnical stability program SLOPE/W program does not specifically provide the requested information as it requires data entry of parameters via input screens. However, Walstrum provided information under Attachment 1 (specifically figure 2) that satisfies the Division's request. Based on the review of this information, the Sensitivity Analysis for 10-ft-thick Xb at a 35 degree angle under seismic conditions results confirms an acceptable factor of safety of 1.15. **This item has been satisfied and there is no further comments regarding this adequacy item from the Division.**

This concludes my review and comments of the Walstrum Quarry's (Walstrum) adequacy response to the Division's geotechnical review memo #3 dated September 21, 2021. If you have any questions, feel free to contact me.

Walstrum Quarry AM-09 Slope Stability Review Memo

October 13, 2021



Sincerely,

A handwritten signature in black ink, appearing to read 'Zach Trujillo' in a cursive style.

Zach Trujillo
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