



COLORADO

Division of Reclamation,
Mining and Safety

Department of Natural Resources
1313 Sherman Street, Room 215
Denver, CO 80203

MEMORANDUM

Date: March 22, 2018

To: Amy Eschberger; Division of Reclamation, Mining & Safety

From: Peter Hays; Division of Reclamation, Mining & Safety

**Re: Third Adequacy Review of Exhibit 6.5 – Geotechnical Stability
Transit Mix Concrete Co.; Hitch Rack Ranch Quarry; File No. M-2017-049**

The Division of Reclamation, Mining and Safety (Division/DRMS) has reviewed the Geotechnical Exhibit included within Exhibit 6.5 for the Hitch Rack Ranch Quarry 112c permit application and the Applicant's adequacy responses received on March 9, 14, and 20, 2018. The Applicant will need to address the following adequacy items identified in the review:

Hitch Rack Ranch Pit Wall Geotechnical Assessment:

1. In response to Item #31 of the Adequacy Review of Exhibit 6.5 – Geotechnical Stability Memorandum dated December 28, 2017, the Applicant states a map showing the L-E section lines has been included as an attachment to the geotechnical analysis and report. The Division did not receive the L-E section lines map with the Applicant's adequacy response. Please provide a map indicating the cross-section profile locations for the Geotechnical Model Analysis for the Slope L-E models.
2. In response to Item #32 of the Adequacy Review of Exhibit 6.5 – Geotechnical Stability Memorandum dated December 28, 2017, the Applicant states the Slope/W model files have been exported as DXF files and Point Cloud CSV files. The Division received the CSV files from the Applicant via email on March 19, 2018. The Division did not receive the DXF files for the Slope/W models. Please provide the SLOPE/W stability analysis model cross-sections with all material profiles labeled for the Geotechnical Model Analysis for the Bench L-E and Slope L-E models to allow the Division to duplicate the analysis with Clover Technology's Galena software for verification purposes.

If you have any questions regarding these adequacy items, please contact me by email at peter.hays@state.co.us or by telephone at 303-866-3567, ext. 8124.

