



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

Date: October 14, 2021

To: Elliot Russell

CC: Jason Musick, Michael Cunningham

From: Zach Trujillo

RE: CC&V TR-128 DRMS File No. M-1980-244
Facilities Access Road Stability Review

Elliott,

As requested I have reviewed Cripple Creek and Victor's (CCV) adequacy response Item #9 for TR-128 in relation to the meeting between the Division and CCV on October 8, 2021. Based on that meeting, the Division requested the following summarized items:

- Show the location of the county road within the geotechnical slope stability profiles and,
- provide additional rational for the resulting factor of safeties in regards to global stability of the proposed road and existing highwall.

With CCV's response, the resulting factor of safety profiles were provided showing the proposed access road along with the county road. **The first item stated above in this memo has been satisfied and no additional comments are necessary.**

As part of CCV's geotechnical stability analysis, three sections were analyzed at the request of the Division. Each section was reviewed using three analyses and averaged out to give the corresponding factor of safety (FoS). These results are provided under Table 2 of the CCV geotechnical stability report. When reviewing the resulting FoS, Section 1 and Section 3 report values below the requirements of Section 30 of the Policies of the Mined Land Reclamation Board. However, CCV states the corresponding FoS represent smaller, superficial instability rather than global slope instability. After reviewing the slope stability resulting profiles provided under Attachment 4 of TR-128, the Division agrees with this rational that global stability is maintained and the resulting FoS represent small surficial failures. Additionally, based on the resulting profiles of the slope stability analysis, most scenarios don't show potential slope failure planes affecting the proposed access road or the county road. Any failure planes that run through the proposed access road or past it indicate a higher FoS of 1.5 or greater. These results indicate stability and are above the minimum criteria of Section 30 for the proposed access road and county road. **Based on CCV's rational, the second item stated above in this memo has been satisfied and no additional comments are necessary.**

CC&V Facilities Access Road Stability Review Memo

October 14, 2021



This concludes my review of Cripple Creek and Victor's (CCV) adequacy response Item #9 for TR-128 in relation to the meeting between the Division and CCV on October 8, 2021. If you have any questions, feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'ZTJ' with a stylized flourish at the end.

Zach Trujillo
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