

June 9, 2025
Project No.: 19125

350 Indiana Street, Suite 750
Golden, Colorado 80401
303.625.9502

Holcim
1687 Cole Boulevard, Suite 300
Golden, CO 80401

Attention: Wyatt Webster & Kurt Thurmman
Environmental and Land Managers

Regarding: Daniels Sand Pit 2, Permit No. M-1973-007-SG
Slope Stability Monthly Monitoring Report

Mr. Webster and Mr. Thurmman,

Lithos Engineering (Lithos) has been retained by Holcim to implement a slope stability monitoring plan for the Fountain Mutual Ditch within Daniels Sand Pit 2. As required, Lithos is performing bi-annual monitoring at the site. Stability monitoring is to occur as shown in the table below pending the State's review of these monitoring reports.

Monitoring Year	Reporting Frequency	Monitoring Report Due Dates
Year 1	Monthly	15 th of July 2022 through 15 th of June 2023
Year 2	Quarterly	9/15/2023, 12/12/2023, 3/15/2024, 6/15/2024
Year 3	Bi-Annual	December 15, 2024 and June 15, 2025
Final Report	One time	July 15, 2025

Lithos visited the site on June 6, 2025. And notes the following observations.

- 1) Several erosion gullies exist within the embankment slope. We recommend those areas be reconstructed ASAP and that the areas be seeded per the reclamation plan.
- 2) Weather: 60°, cloudy, winds 10 mph, ground cover: wet/ponding water
- 3) Visual observation of the Fountain Mutual Ditch and ditch road:
 - a) No tension cracks.
 - b) Vegetation growing on banks of ditch.
 - c) Flowing water.
 - d) Ditch access road not level/flat in a few areas. Ponding water present in a few locations. Fallen tree branches also present on road.
- 4) Visual observations of the Buttrass Slope
 - a) The buttress slope varies from 3H:1V to 4H:1V. Some portions of the slope should be regraded.
 - b) Majority of the buttress is covered in natural vegetation/weeds.
 - c) Several locations show visible evidence of surface water runoff and expanding erosion gullies throughout the buttress. The erosion gullies are widespread along the buttress from east to

west, with a few located 2/3 up the slope and several feet wide and deep. Since the last site visit in December 2024, the frequency of erosion gullies has increased. The dimensions (width and depth) of individual erosion gullies have also increased.

- d) Several broken trees exist on the slope/buttrass crest near the ditch access road.



Photo 1. Water flowing in ditch



Photo 2. Buttress slope with ditch access road



Photo 3. Erosion gully in buttress



Photo 4. Erosion gullies in buttress



Photo 5. Ditch and access road looking east (note ponding water on access road)



Photo 6. Ditch and access road looking west



Photo 7. Ditch looking north



Photo 8. Erosion gully in buttress



Photo 9. Erosion gully in buttress



Photo 10. Erosion gully in buttress



Photo 11. Buttress toe



Photo 12. Erosion gullies in buttress



Photo 13. Erosion gully in buttress



Photo 14. Erosion gully in buttress



Photo 15. Erosion gullies in buttress



Photo 16. Erosion gully in buttress



Photo 17. Erosion gully in buttress



Photo 18. Erosion gully in buttress



Photo 19. Erosion gully in buttress



Photo 20. Erosion gully in buttress



Photo 21. Erosion gully in buttress



Photo 22. Erosion gully in buttress



Photo 23. Erosion gully in buttress

If you have any questions regarding the contents of this report, please contact Lithos Engineering.

Sincerely,

Lithos Engineering/GEI Consultants



Steve Kuehr, PE
Senior Consultant

Sarah Myers
Project Manager