

December 11, 2024  
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 & Neil Whitmer  
Environmental and Land Managers

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

Mr. Webster and Mr. Whitmer,

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 <sup>th</sup> of July 2022 through 15 <sup>th</sup> 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 December 10, 2024. And notes the following observations.

- 1) A few 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: 20°, partly sunny, slight wind, snow- and ice-covered ground
- 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.
- 4) Visual observations of the Buttress 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) Few locations show visible evidence of surface water runoff and expanding erosion gullies throughout the buttress.
  - d) Several broken trees exist on the slope/buttress crest near the ditch access road.

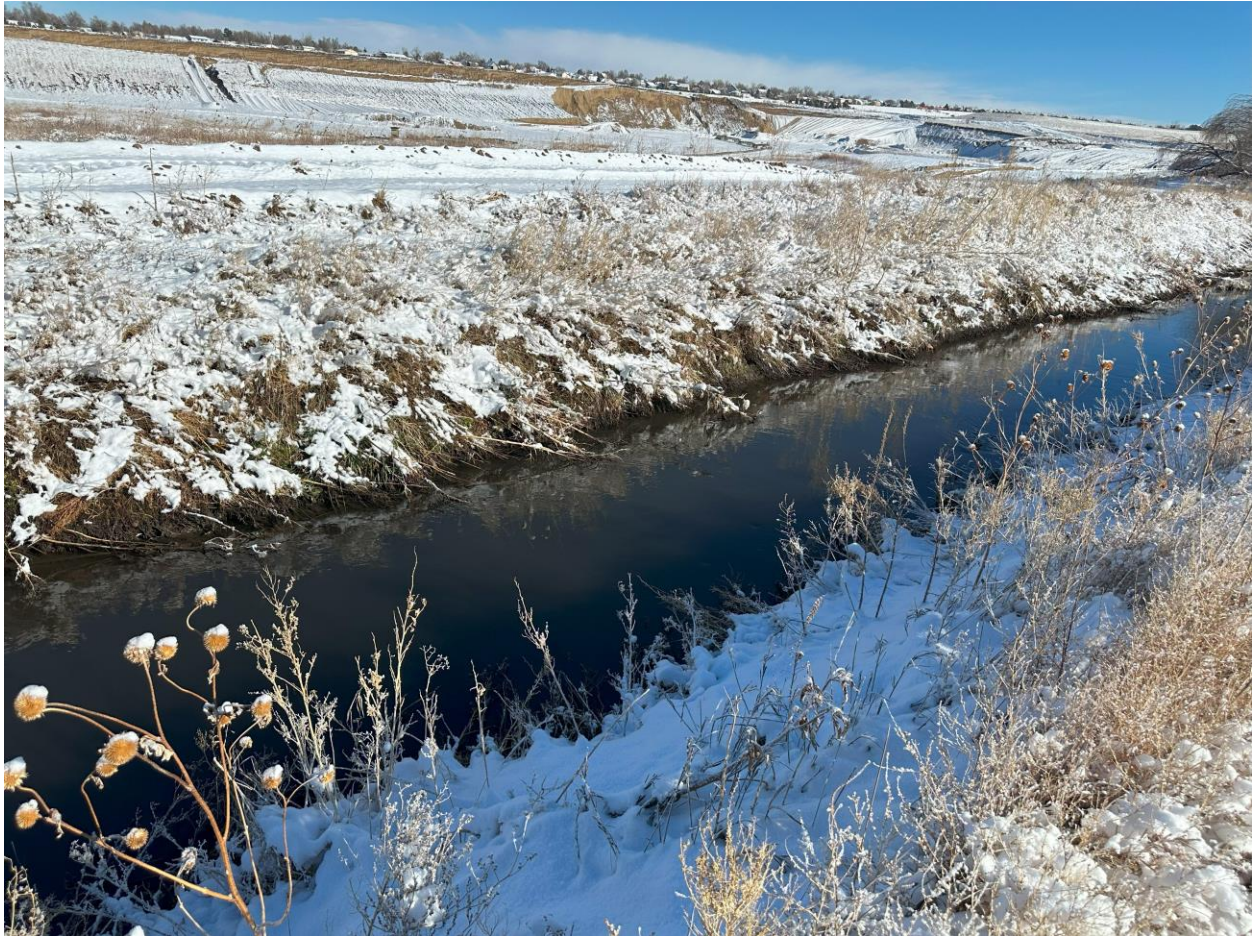


Photo 1. Water flowing in ditch





Photo 2. Buttress slope with ditch access road



Photo 3. Erosion gully in eastern portion of buttress





Photo 4. Erosion gullies in central area of buttress



Photo 5. Ditch and access road looking east





Photo 6. Ditch and access road looking west



Photo 7. Ditch looking north

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