

May 15, 2023
Project No.: 19125

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. Monthly monitoring will occur for the first year after construction completion. Lithos Engineering (Lithos) visited the site on May 14, 2023. At several locations, erosion extending up the slope from the toe is still visible. We recommend those gullies be backfilled with compacted soil within the next several weeks and that the areas be seeded this Fall per the reclamation plan. Site notes and photographs are presented below:

- Weather: 50-55°, cloudy, winds 5 - 10 mph, heavy rain in previous days
- Visual observation of the Fountain Mutual Ditch and ditch road:
 - No tension cracks
 - Vegetation growing on banks and at invert of ditch
 - No water flowing in ditch
 - No sloughed slope surfaces
 - The condition of the ditch is stable
 - Berm between ditch and access road is stable
- Visual observations of the Buttress Slope
 - The buttress slope varies from 3H:1V to 4H:1V
 - Vegetation (mainly weeds) are growing in some locations on the buttress
 - Several locations show visible evidence of surface water runoff and erosion gullies throughout the buttress
 - East end of buttress slope was recently graded and appears to be seeded and mulched although no vegetation has established



Photo 1. Fresh erosion gully near east end of buttress



Photo 2. Erosion gullies near west end of buttress



Photo 5. Erosion gullies in central area of butress



Photo 6. Erosion gullies in central area of butress

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

Sincerely,

Lithos Engineering



5/15/23

Steve Kuehr, PE

Senior Consultant