



STATE OF  
COLORADO

Cazier - DNR, Tim <tim.cazier@state.co.us>

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## Daniels Monthly Report

1 message

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**Wyatt WEBSTER** <wyatt.webster@holcim.com>  
To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>

Mon, Aug 15, 2022 at 8:14 AM

Tim,

Attached monthly report for Daniels Pit Slope Stability.

**Wyatt Webster** | Environmental and Land Manager  
Holcim Group | Holcim - WCR, Inc.  
Address: [1687 Cole Blvd., Suite 300](#)  
[Golden, CO 80401](#)  
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**Daniels Sand Pit 2 - August 2022 Observation .pdf**  
4571K



August 11, 2022  
Project No.: 19125

2750 S. Wadsworth Blvd, Suite D-200  
Lakewood, Colorado 80227  
303.625.9502  
[www.LithosEng.com](http://www.LithosEng.com)

Aggregate Industries – WCR, Inc  
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 Aggregate Industries 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 August 11, 2022. The ditch and the condition of the buttress slope are stable. Site notes and photographs are presented below:

- Weather: 60-89°, mostly sunny, winds 10-20 mph
- Visual observation of the Fountain Mutual Ditch:
  - No tension cracks
  - No toe erosion that was visible
  - Vegetation growing on banks and at invert of ditch
  - Dry, no water present
  - No sloughed slope surfaces
  - Several broken branches near crest
  - Some broken branches in ditch
  - The condition of the ditch is stable



Photo 1. Fountain Mutual Ditch looking east



Photo 2. Fountain Mutual Ditch looking west





Photo 3. Fountain Mutual Ditch invert looking north (note vegetation)





Photo 4. Fountain Mutual Ditch invert with branches

- Construction sequence
  - The buttress slope varies from 3H:1V to 4H:1V
  - The final lift needs to be regraded for some portions on the eastern side of the buttress
  - Vegetation (mainly weeds) are growing on buttress
  - Several locations visible evidence of surface water runoff





Photo 5. Buttress slope looking south





Photo 6. Buttress slope looking west from toe





Photo 7. Buttress slope looking east from toe





Photo 8. Butress slope looking south, evidence of surface water drainage





Photo 9. Buttress slope looking south, area needs regrading





Photo 10. Buttress slope looking north, weeds growing

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

Sincerely,

**Lithos Engineering**



Steve Kuehr, PE  
Senior Consultant



Sarah Myers, EIT  
Project Engineer