



STATE OF
COLORADO

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

Daniels Monthly Report

1 message

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

Mon, Nov 14, 2022 at 8:37 AM

Tim,

Attached monthly report for Daniels. We contracted with NCC to get the seeding and erosion control hydro mulching completed before the snow starts falling.

Wyatt Webster
Environmental & Land Manager
Holcim - WCR, Inc.
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Daniels Sand Pit 2 - November 2022 Observation.pdf
4489K



November 8, 2022

Project No.: 19125

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Aggregate Industries – WCR, Inc

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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 November 8, 2022. The severely gullied and moderately gullied locations at the crest of the buttress have been repaired. A small berm has been constructed between the ditch and the access road. One location where the erosion extended from the toe has been repaired. At a few locations erosion extending from the toe is still visible. We recommend those gullies be backfilled with compacted soil within the next several weeks. It is Lithos understanding that Grant Smith has been talking with a company regarding seeding. Site notes and photographs are presented below:

- Weather: 40-68°, 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
 - Tumbleweeds present in ditch
 - No water flowing/dry ditch
 - No sloughed slope surfaces
 - The condition of the ditch is stable



Photo 1. Fountain Mutual Ditch looking NE



Photo 2. Fountain Mutual Ditch looking west



Photo 3. Fountain Mutual Ditch invert with tumbleweeds

- Visual observations of the Butress Slope
 - The buttress slope varies from 3H:1V to 4H:1V
 - Vegetation (mainly weeds) are growing in some locations on the buttress
 - Several locations visible evidence of surface water runoff and erosion gullies throughout alignment



Photo 4. Buttress slope looking south with weeds (western slope)



Photo 5. Buttress slope with repair looking east from toe



Photo 6. Buttress slope repair looking north from toe



Photo 7. Buttress slope looking north, note evidence of drainage/erosion gullies forming. More sediment near toe



Photo 8. Berm between access road and ditch



Photo 9. Repair of gullies near access road



Photo 10. Repair along slope

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