

FH Reference: 125592	Project : Berryhill Landslip Remedial Works	Date of Site Visit: 05/01/2021
<p>Mansfield District Council (MDC) have appointed Fairhurst to undertake regular site inspections of the quarry wall between completion of the emergency response works (w/e 24th November 2019) and the commencement of the permanent works in this portion of the quarry in early 2020.</p> <p>A photographic record of the quarry has been collated and is being updated after each weekly routine inspection.</p> <p>During a recent inspection on Tuesday 5th of January 2021, the weather was overcast. On days previous to this inspection there had been heavy rain and light snowfall in Mansfield. As per the last site visit on the 29th of December 2020, the cliff faces were partially saturated with what appeared to be surface water run-off from heavy rain and light snowfall from previous days.</p> <p>As previously reported, a failure of overburden/soil/completely weathered rock from the upper part of the slope occurred on the 23rd December 2020, resulting in mobilisation of emergency response, Fairhurst Engineers and specialist contractors. The failure debris was removed from the rock trap and placed behind the concrete roadblocks, installed as a temporary measure in November 2019 following the previous large mass failure.</p> <p>Since clearance of the rock trap area on the 24th of December, and the small 2m³ ravelling events between the 24th of 29th of December, it is evident there has been some further small ravelling of overburden/soil/weathered rock (See Photograph 1), estimated as less than 1m³ in volume. Making the total volume of debris in the rock trap at this location currently ~3m³. Further clearance of the rock trap is proposed on demobilisation of the excavator from site. There are other small areas of residual material, which may come down in the coming weeks during precipitation events (including some vegetation/small volume of soil/overburden). Although it is anticipated these small ravelling failures will be contained within the temporary works rock trap.</p> <p>There was no evidence of visual change in the condition of the quarry slopes from that observed during the Fairhurst site visit inspection of 29/12/20.</p> <p>Fairhurst are not aware of any reported issues to MDC and the garden hedges fencing remained in situ as agreed.</p> <p>If residents see or hear anything associated with the cliff face, please call 01623 463 050 to report this to the Council.</p> <p>Photographs included overleaf.</p>		
Prepared by: Joshua Blacker Environmental & Geotechnical Engineer, Fairhurst		Date: 05/01/2021
<p>Distribution: Mansfield District Council – James Biddlestone For distribution to affected residents on Stone Bank and Bank End Close.</p>		



Photograph 1: Looking along the southern flank of the quarry to the south west corner. Note, the small amount ($\sim 3\text{m}^3$) of slope debris at the toe of the slope, contained within the rock trap. The debris has amassed following the clear up operations from a recent failure on the night of 23rd of December 2020 and originates from the residual material at the crest of the recent failure scar (Image taken on 05/01/2021)



Photograph 2: Previous failure scars which appears to be partially saturated in surface water run-off from recent rain and snowfall. Note the small amount of failure debris ($\sim 3\text{m}^3$) at the toe of the slope which has amassed since the clear up operation of a recent failure on the 23rd of December 2020. (Image taken on 05/01/2021)



Photograph 3: Looking west to the south west quarry corner (Image taken on 05/01/2021).
(Image taken on 05/01/2021).



Photograph 4: Looking at the western flank where sand had previously been washed down the cliff face. No additional debris was on top of the talus at the toe of the cliff (Image taken on 05/01/2021).



Photograph 5 : Looking at southern flank (background) and western flank (right-hand-side)
(Image taken on 05/01/2021)



Photograph 6: Looking north to the end of Unit 8. (Image taken on 05/01/2021).