

Impact of Landslide on Blasting in the Quarry Dobkovičky

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Abstract. The day before the landslide took place the author visited and photographically documented the open cracks found near the offices and weight of the quarry Dobkovičky. The second day after the landslide again there were documented all damages and also a video of the moving soil was taken. On the basis of the Geofond documentation was realized the static and dynamic calculation of stability in time before and during the landslide as well as during the blast works in the quarry. Each blast is carefully monitored on 5 posts by vibrographs (by the official standard machines) near the quarry with the focus on fixed points before and after the blast. The results clearly show that the blast has no influence on stability conditions.



Fig. 1: Aerial picture of the mutual position of the quarry Dobkovičky and landslide.



Fig. 2: The landslide area, smashed railway and buried motorway



Fig. 3: Open cracks at the offices of the quarry Dobkovičky on the day before landslide