



Mont Terri Project

Underground Rock Laboratory

ANDRA ◦ BASE ◦ BGE ◦ BGR ◦ CHEVRON ◦ CRIEPI ◦ DOE ◦ ENRESA ◦ ENSI ◦ ETHZ/EPFL ◦ FANC ◦ GRS
HELMHOLTZ ◦ IRSN ◦ JAEA ◦ NAGRA ◦ NWMO ◦ NWS ◦ OBAYASHI ◦ SCK•CEN ◦ SWISSTOPO ◦ TOTALENERGIES

Mont Terri Rock Laboratory

Field report: July 4–10, 2022 (Phase 28)

HS (Hydrogeological Survey of the Mont Terri Anticline) experiment

- On Friday, F. Kaufmann and A. Hurni (Solexperts) were on site to check the packers inside BHS-1. The manometers show a pressure decline and are at 0.8 bars. Unfortunately, they didn't manage to repair the system yet.
- During this intervention, they also exchanged parts of the interface and a pressure sensor for BDB-1.

MA-A (Modular Platform for Microbial Studies) experiment

- On Thursday, C. Rolland (EPFL) was on site to change the vacuum pump and to do some maintenance work.

MH (Monitoring of Heaves and Displacement) experiment

- On Tuesday, A. Degiacomi and T. Nicollier (swisstopo) measured the newly installed fixpoints outside the laboratory (**Figure 1**).

PF (Progressive Rock Mass Failure and Overbreak Sealing) experiment

- On Tuesday, A. Guzik (Neubrex) showed M. Ziegler (swisstopo) how to handle the Neubrex interrogator for the fibre-optic measurements inside BPF-7 (**Figure 2**).

SW-A (Large-Scale Sandwich Seal in Opalinus Clay) experiment

- On Monday, D. Fixar and D. Novotny (BGR) finished the pneumatic tests in shaft 2. On Wednesday, they uninstalled and cleaned the site.
- On Monday, P. Maeder and S. Schefer (swisstopo) marked the zero depth line inside shaft 2. This line serves as reference for the installation of the pressure chamber and the overlying sandwich layers. It marks the middle point of the intersection with the injection borehole.
- On Friday, S. Schefer (swisstopo) refilled the high pressure tank with Pearson water.

Varia

- This Friday marked the last day of the two months of civil service in Mont Terri for Tobias Nicollier. We are sad to let him go and thank him for all the work he did for us! Thank you!
- **Information: The rock lab will be closed for summer break from July 18 until August 14.**

D. Jaeggi and S. Schefer, July 11, 2022

Visits

Tue	05.07.2022	Klasse Martin Zisset, Gymnasium Lerbermatt	20	H. Hauser
Tue	05.07.2022	Kernkraftwerk Gösgen-Däniken AG	36	R. Nicol, M. Pretalli
Wed	06.07.2022	Wanderfreunde	28	O. Moser



Figure 1: MH: T. Nicollier and A. Degiacomi enjoy the measurements outside the lab in the summer heat (Photo: S. Schefer, swisstopo).



Figure 2: PF: Instructions on the Neubrex interrogator in front of the PF-experiment (Photo: S. Schefer, swisstopo).