

FURKA TUNNEL INSPECTION



Oberwald – Realp, Suisse

Railway tunnel

Structural inspection of the Furka Tunnel on the railway line between Brig (VS) and Andermatt (UR).

Survey and representation of the tunnel vault and the associated tunnel installations (drainage system and cable ducts) showing all visible damages in a developed view of the tunnel vault (CAD plan)

Condition assessment including reporting and elaboration of a refurbishment plan.

Structural Inspection Furka Tunnel

Location

Oberwald – Realp, Switzerland

General Information

Line Brig (Ct. VS) - Andermatt (Ct. UR)
Length: 15'384 m
Construction period: 1972 – 1982

Project Stages

Inspection: summer 2004

Geology, Basic Structure

Crystalline bedrock (paragneiss, granite)
Single-shell shotcrete lining

Inspection Strategy

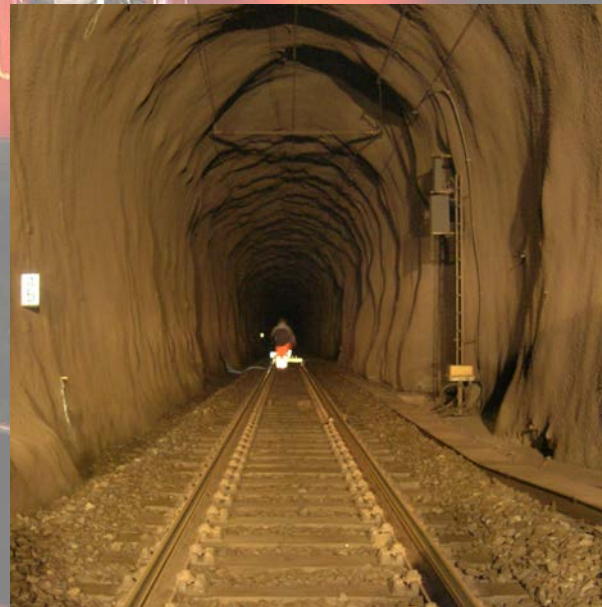
Survey of damages and their extent by means of scans and the software TunnelMap. Labelling of extraordinary observations

Project Details

Main tunnel during night shifts with closure of line. Special structural components (portals, twin-track sections) during the day and on-going traffic operations.

Client and Contact Person

Matterhorn Gotthard Railways MGB
Infrastructure, Brig, Switzerland
Mr W. In-Albon



Project

Single-track railway tunnel (narrow gauge),
Length: 15'384 m

Our Services

- Study of existing construction documents
- Digitization of existing plans
- Performance of inspection
- Interpretation of inspection data
- Condition assessment
- Refurbishment plan and cost estimate



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