



### Editorial

Dear readers,

In the October 2013 issue of the Newsletter I am reporting on two motorway projects with process and fire fighting water pipelines and also with drainage pipelines in ductile iron pipes. There is also a report on the renewal of drinking water pipelines and the construction of new pipelines in ductile iron pipes, using partly open trench and partly trenchless techniques.

Have an enjoyable and stimulating read.

Sincerely yours,

Raimund Moisa



## Process and fire fighting water supply – Visp/Eyholz tunnel on the A 9 Autobahn

◆ The construction of the new A 9 Rhone Autobahn in Oberwallis, a long-term project, is well underway. The next section to open is planned for the end of 2016/beginning of 2017. The Visp/Siders bypass will take the Visp West/Visp East section as far as the portal to the existing Visper tunnel, which will form part of the A 9 as the South tube. From here the A 9 will run in two divided lanes. Between Chatzhüs and Staldbach, two bridges cross the Visper valley. Both tubes of the Eyholz tunnel have been drivento Staldbach since December 2012. A fire fighting water pipeline provides protection for both the Visp and Eyholz tunnels. The feed pipeline provides water from the mountain, extending from the Bächji Reservoir in the municipality of Visperterminen, 840 m above sea level down to the valve chamber in Staldbach at 680 m. The DN 300 pressure pipeline with a maximum operating pressure of 20 bars and a total length of 600 m runs through part of the land of the highest vineyard in Europe. Full protection vonRollecopur pipes were installed with vonRollrock rock protection coating applied on site and vonRollhydrotight restrained push-in joints. vonRollecofit fittings with integral epoxy coating to EN 14901 and RAL GZ 662 completed the piping system.

## Renewal of the North section of the water pipeline in Osthofen (Rhein Hessen)

◆ A grey cast iron pipeline, nominal width DN 300, dating back to 1968 has been replaced with a DN 400 ductile cast iron pipeline with external cement mortar coating. The transport pipeline, belonging to the joint body administering the waterworks for the district of Seebach and running between Worms and Alzey, starts at the main pumping station in Osthofen and ends at the elevated

reservoir at Bechtheim-West. The first stage of construction, with a length of 520 m, begins in the vicinity of the main pumping station and ends up at Osthofen. Further construction stages are planned from this point on. All in all, around 1.5 km of water pipeline is to be replaced with ductile cast iron pipes. In terms of pipe connections, the client has chosen the tried and tested TYTON SIT PLUS® restrained

push-in joints. The pipeline will operate at a maximum pressure of 12 bars. The building works, being done by Gebrüder Becher Rohrleitungsbau GmbH from Mudersbach, began in July 2013 and will end in October 2013. This pipeline will ensure the supply of drinking water to the Northern area of the administrative district.

## Emergency overflow pipeline for the new Haseltal bridge on the A 3 between Frankfurt, Würzburg and Nürnberg

◆ The A 3 motorway between Aschaffenburg and Würzburg is due to be extended to 6 traffic lanes. The project includes the construction of the new Haseltalbridge, 678 m long and 70 m high, between the Rohrbrunn and Marktheidenfeld junctions in Spessart. Surface water will be collected in a retention reservoir and from there it will be routed down into the valley. In case

of particularly heavy rainfall there is an emergency overflow pipeline made of ductile cast iron pipes; this meets the requirements for a dry pipeline, a gravity pipeline and a pressure pipeline.

There is one section with a slope of up to 40° in which around 210 m of DN 400 ductile sewer pipe has been installed with BLS® positive locking push-in joints and reddish brown



coloured external zinc/epoxy coating. In the valley, the water quiets down in a tilling basin and then runs freely into the Haselbach river. The flexibility and toughness of ductile cast iron pipes and the security of BLS® positive locking push-in joints were convincing factors for the client.

## Water supply for Möckmühl – sustainable and fit for the future

◆ The forward-looking Möckmühl water supply concept was initiated back in the year 2005. Since 2006 around 6.2 million euros have been invested in a water supply project fit for the future.

Quality and a long service life were of utmost importance in the choice of pipe material. Ductile cast iron pipes with

external cement mortar coating met all the requirements. In the last of the five construction stages, around 7 km of the 15 km long pipeline was installed. Ductile cast iron pipes were used for the feed and outlet pipeline of the North elevated reservoir and also for the outlet pipeline of the Schlossberg elevated reservoir.

In total, 1,300 m of DN 200, C 64, 5,400 m of DN 150, C 100 and 60 m of DN 100, C 100 were installed. For pipe pulling-in, a short section was fitted with the BLS® restrained system.

With the completion of this construction project, the Möckmühl water supply is set up for the future.

### Dates for your diary

**27 November 2013**  
rbv - GSTT - EADIPS®/FGR® -  
Information event,  
trenchless technologies,  
Stockdorf

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## NATO military training area supplied with drinking water

◆ To the West of the Bulgarian town of Sungurlare in Novo Selo there is a NATO military training area. In order to supply the troops stationed there with drinking water, the Ministry for Regional Planning has arranged for the construction of a main drinking water pipeline. This pipeline should also supply a further six communities in the vicinity of Sungurlare and so it should guarantee a sufficient supply of drinking water. The planning engineering company Vodokanal Projektis in charge of the project.

For a major part of the drinking water pipeline, 11.21 km of ductile cast iron pipes with

external cement mortar coating, DN 300 and DN 400, will be used. A crucial factor in the choice of ductile iron pipes was the fact that no special bedding material is needed.

The pipeline runs under a major arterial road and a river. Here the planners decided in favour of the horizontal directional drilling process and they will use ductile cast iron pipes with BLS®/VRS®-T push-in joints for the trenchless pipe laying technique. Both client and planners were convinced by the reliability of this joint technology. The project is still due to be completed in 2013.

