Water level Mag

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Wasser Berlin 2011 -Know-how weltweit

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People and projects

Air pigs clean water pipe

In a record time of ten days, the more than ten-kilometer-long groundwater pipeline that runs from Stolpe to just before Oranienburg has been cleaned. An innovative process was used: an impufc flushing method in which compressed air is gzbtamn into the Waaaeratrom.



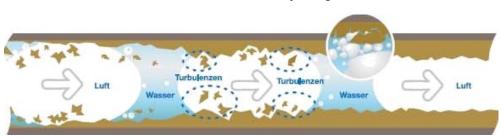
Stolpel hrank Fiehti (nJitarheiter Wmiserwerk Stalpe} vnd Carsten Ute fLeiter fiesserrverfr regel). The mobile f:insotztecbrii#/ürdos Comyex-Ver/o hren in Stat pe (below).

With vtel vortices were large water bJa-The water is bubbled through the pipe that feeds groundwater from distant wells into the Stalpe water well. The aim of the andect- half-hour project: to pump the water, which is pumped with the help of three compressors at several points

The "Lultmok he" produced in the pipe by doped pressure should remove deposits of iron and manganese oxide that had spread like a paste on the inner walls of the pipes. The deposited minerals increasingly impeded the flow in the pipe, which normally has a minimum diameter of 6O centimetres along its length and a maximum diameter *of Izo* metres shortly before the value. "The water from the wells in Hohen Neuen ort, Birherr wezde and Borgsdorf is now in good condition," explains Wolfgang Tondeza, foreman of the Stolpe waterworks. This state of affairs is the background to a patented process that Hammann GmbH, based in the Palatinate, has developed and brought to market.

Positive experiences with "Air cleaning devils"

Its use is not new at Berüner Wasserbetriebe. "Zoo'; was used for the first time in the raw drinking water network of the Lichterfelde pipe network operating station, and later also in the network of the Jungfemheide and Pantow operating stations,



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Carsten Utbe, who has been in charge of the Tegel heavy waterworks for four years, which includes the Stolpe waterworks, the Wert on Spandauer Plonierstrasse and the Wert in Kladow. In Tegeler Wert, an i.5 kilometer long and i.ao meter thick raw water pipe was flushed using this method. In 2009, this I mpuls-Sptil process was used in the surface water treatment plant in Tegel over a distance of five kilometers. Carsten Utte emphasizes: "And it has been a great success." However, this is a particular problem when large quantities of sludge are detected: Where to put it? The options for disposing of the sludge using technical systems are limited in

Berlin, the discharge of which into watercourses cannot be genetically modified. However, old plants in Stolpe make it possible to treat the sludgy water.

sers. Brandenburg's approval to discharge the unhealthy itlar water into the Havel after separating it from the sludge meant a "great deal of light" for the première of the low-emission Comprez process at the Stolpe waterworks.

"A layer of sludge up to five centimetres thick has been traced out of the pipe," *says* Carsten Ut- je. Compared to conventional flushing, in which only water flows through the pipe





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"shot" txt rd, the effectiveness of the ImpulvSpuJ driver is particularly convincing. Car sten Utke. "The effort is less. \What we have now achieved in ten days would have taken up to eight weeks with conventional processes such as pigging - where a cleaning device is pulled or pressed through the pipe." In addition, the hygienic safety is a positive aspect. The risk of contamination

is low because only air is fed into the pipe.

was conducted. The flushing required approximately iso ooo xubic meters of $\$ water.

Effective process saves enormous amounts of time and money

Particularly with the enormous crosssection of the pipe, a heathy flushing system would **require** up to 12 times as much flushing **water. It would therefore be**

far more cost-intensive, but less economical. However, the evaluation of the a cemative rinsing process is not yet complete.

shot down. "We are investigating *where* things need to be optimized and with what degree of sustainability this system of pipe cleaning can be used," announces Carsten Utke. By {uni he expects to have

Adrienne Kömmler-Bachmann

Berlin-f'ankow has been welcoming hundreds of families and taking care of **them even in the most difficult situation - when** their **own** child dies. Far away from the atmosphere of a sick home

Apleasant atmosphere has been created - a petting zoo with donkeys, sheep and rabbits in the large garden, an exercise pool, a Snoezel room that stimulates the senses (where you c a n lie or sit comfortably, surrounded by soft sounds and melodies, watching light effects) or even a disco in the garden house contribute to this -£

The Sonrrenhof children's hospital is one of the only places in Berlin and Brandenburg,

where those affected can find relief as well as professional and loving **care in this life** situation Since such services are not provided and financed by the state health system to an ezfordable extent, the Björn Schulz Foundation assumes responsibility in this area.

For years, the employees of Berliner Wasserbetriebe have been contributing to this with their donations. **On April 4, Dr**. Görg Grunwaid, Member of the Board of Natagement, and Xarsten MaJarecg, Chairman of the Board of Directors, presented the foundation with a cheque for **IOOOO** euros: The result of the Christmas collection and the board's contribution.

The money comes at just the right time, as an extension is due to be built, creating space for a total of 16 seriously and terminally ill children, young people and their families. There are currently twelve guest rooms. Additional rooms are planned for art and music therapies, e ¥emappartements, the children's grief center and the Björn Schulz Slifiung Academy. The heart of the Sonnenhnf - the community wing and the

-**T**e living room is currently moving into the conservatory and the garden for the conversion. haus mu The foundation is named after elnem kleine {ungen, who died of leukemia shortly before his eighth birthday. His great social commitment has been honored several times regionally and in competitions, including the Grenander Award at the suggestion of Wasserbetriebe. ivsm

Giving joie de vivre

Employees donate 10,000 euros to the Björn Schulz Foundation's Sonnenkof. It helps families with terminally ill or incurably ill l€irxlem, teenagers and young adults.

Srheckiihery abe in the Sonne nhof.- Pra uke Prohf Press spokeswoman of the 5r/turtp, karsten Main rec{ Chairman of the Sesatnt pers onnlrat, Mary it rutnprl Bjôrn Schulz Sttffung and fr.-Iny. Geory Gru nwalrl, Yorstnnd Techriik (f.l.}

The place radiates peace and conveys a sense of security. Since December zooa, **the Björn schulz** Foundation's 'Sonnenhof' children's hospice in

