

WAZ · Philipp-Reis-Straße 2 · 37308 Heilbad Heiligenstadt

Ultrawaves Wasser- und Umwelttechnologien GmbH
Herrn Dr. Nickel
Becker-Görling-Str. 17 - 25
76307 Karlsbad

**Zweckverband
Wasserversorgung und
Abwasserentsorgung
Obereichsfeld**

Betriebsführung durch:
EW Wasser GmbH

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Heilbad Heiligenstadt, 21.09.2021
ka/wd

Reference letter regarding successful application of Ultrawaves High-Power Ultrasound Technology on Leinetal WWTP

Dear Dr. Nickel,

we herewith confirm that WWTP Leinetal (80.000 PE size) is using Ultrawaves High-Power Ultrasound Technology for sewage sludge disintegration since the year 2002.

During the year 2002 until 2014 we have used Ultrawaves HPUS Technology for improvement of aerobic sludge treatment to achieve a better sludge stabilization with a lower volatile solids content and consequently to minimize the waste activated sludge production.

Since year 2013 we have constructed a new anaerobic sludge digester and added Ultrawaves HPUS-technology as a pre-treatment step before the anaerobic sewage sludge digestion. As a result, the sludge volatile solids degradation and the biogas production have been significantly improved (details according to the slides attached).

Over the past 20 years of cooperation with Ultrawaves we have made very positive experiences with the Ultrawaves HPUS-technology regarding the technology itself and the engineering services from Ultrawaves.

Best regards,


Dipl.-Ing. Winfried Kaufhold
Factory Manager of EW Wasser GmbH



Vorsitzender des
Zweckverbandes:
Dipl.-Ing. Ottmar Föllmer

Sitz des Zweckverbandes:
Heilbad Heiligenstadt

Gerichtsstand: Amtsgericht
Heilbad Heiligenstadt

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Geschäftsführer der
EW Wasser GmbH
Dipl.-Ing. Ulrich Gabel

Sitz der Gesellschaft:
Heilbad Heiligenstadt
Registergericht:
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HRB 402446

Geschäftszeiten:
Mo. – Do.: 07:00 – 15:45 Uhr
Fr.: 07:00 – 13:30 Uhr