

Press Release

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Contact:

Katharina Weinmann

BAUER Aktiengesellschaft

BAUER-Strasse 1

86529 Schrobenhausen, Germany

Phone: +49 8252 97-3947

public.relations@bauer.de

www.bauer.de/en

Twice as strong: Bauer Resources relies on a dual approach of remediation and disposal

- Remediation of contaminated soil by Bauer Resources using precise replacement boring near Duisburg
- Around 6,500 t of soil transported to the Duisburg soil treatment center, professionally stored and disposed of

Duisburg, Germany – The steady hum of the drilling rig hangs over the construction site as the contaminated soil is drilled through layer by layer to a depth of 16 m using the Kelly method. Trucks are already waiting at the edge of the site, their engines humming quietly as they stand by, ready to safely transport the excavated material away. This is what real cooperation looks like: On a project near Duisburg, the Bauer Umwelt division of BAUER Resources GmbH took on the source rehabilitation – including the proper disposal of the contaminated soil. What made this project unique? It was the seamless integration of brownfield remediation and disposal – a perfect partnership that showcased the power of true synergy and a well-executed full-service solution.

Replacement boring with surgical precision

From February to May 2025, Bauer Resources' specialists carried out large-diameter borehole operations to replace contaminated soil. Step by step, they drilled 167 vertical boreholes, as well as an additional 30 boreholes with an incline of 5° to ensure that the lower area could also be remediated. "This type of replacement boring is actually everyday business for us, yet this site was anything but normal," remarks Senior Construction Manager Daniel Thielmann at the Bauer Umwelt Division of BAUER Resources GmbH. This is because two pipelines ran directly next to the contaminated hotspot. And that meant caution was the order of the day. Like open-heart surgery, the aim was to drill out the contaminated material without damaging the adjacent pipeline. "When drilling each borehole and during every work step, our team demonstrated a steady hand and great deal of finesse," emphasizes Daniel Thielmann.

Sophisticated disposal concept

Once the replacement boring work was completed, about 6,500 t of contaminated soil remained – requiring proper disposal. This task was approached with equal precision: The sophisticated disposal concept was developed by the soil treatment center Duisburg, another member of the Bauer Resources family. "For our customers, this means reliable end-to-end service from a single source," explains Benjamin Steden, Operations Manager of the location in Duisburg. Before the polluted soil could leave the site, it underwent a careful inspection. An environmental assessor classified the material to a specific material quality and took targeted samples for chemical analysis. "We had ensure that every batch was thoroughly tested before being approved for disposal," continues Benjamin Steden. Only after passing this inspection was the

soil cleared for removal. The logistics were tightly coordinated: Trucks left the site twice daily, making the 90-minute trip to the soil treatment center Duisburg.

Full-service from concept to logistics

Upon arrival at the soil treatment center, the contaminated material was unloaded and temporarily stored in separate areas according to the degree of contamination. Depending on the results of the analysis, the soil was either sent for thermal treatment or final disposal. “While our 3,000 m² soil treatment center is generally equipped for dry mechanical processing, the material delivered was not suitable for this method due to its properties,” explains the operations manager. In addition to its diverse treatment options, the Duisburg site also offers a key logistical advantage: trimodal transport connectivity. Thanks to excellent infrastructure, the facility can handle shipments by ship, rail, or truck. “We were proud to bring our extensive disposal expertise to bear on this project,” remarks Benjamin Steden in conclusion.

Project video: <https://www.youtube.com/watch?v=Mh2X57NMyAI&list=PL-mKL6ezathzlyf7xq0Y8Faeo2HKQ2H1N&index=1>

Images: pressebild-press-image-altlastensanierung-brownfield-remediation-duisburg-bauer-resources...



(1) Bauer Resources rehabilitated an area near Duisburg: Using replacement boring, the contaminated soil was replaced with unpolluted material.



(2) Brownfield remediation and disposal worked hand in hand on this project.



(3) At the 3,000 m² soil treatment center in Duisburg, around 6,500 t of soil were temporarily stored and prepared for final disposal.

About BAUER Resources Group

The regionally organized BAUER Resources GmbH is aligned to projects around the world with its subsidiaries in Germany, Africa, the Middle East and South America and has extensive expertise in the areas of drilling services and water wells, environmental services, constructed wetlands, mining and rehabilitation. With more than 30 years of experience, BAUER Resources GmbH's Bauer Umwelt business division is one of the leading specialists in site remediation, soil remediation and waste disposal, both in the domestic market and internationally. As an expert in pollution reduction, Bauer Umwelt offers a diverse range of services for all environmental issues. Other companies of the BAUER Resources Group are GWE GmbH, SCHACHTBAU NORDHAUSEN GmbH and SPESA Spezialbau und Sanierung GmbH. More at <https://resources.bauer.de/en>.

About Bauer

The BAUER Group is a leading provider of services, equipment and products dealing with ground and groundwater. The Group can rely on a worldwide network on all continents. The Group's operations are divided into three forward-looking segments: Geotechnical Solutions, Equipment and Resources. Bauer profits enormously from the collaboration of its three business segments, enabling the Group to position itself as an innovative, highly specialized provider of products and services for demanding projects in specialist foundation engineering and related markets. Bauer therefore offers suitable solutions to the world's greatest challenges, such as urbanization, the growing infrastructure needs, the environment, as well as water. The BAUER Group was founded in 1790 and is based in Schrobenhausen, Bavaria. In 2024, it employed about 11,000 people and achieved total Group revenues of EUR 2.2 billion worldwide. More information can be found at <https://www.bauer.de/en>. Follow us on [Facebook](#), [LinkedIn](#), [Instagram](#) and [YouTube](#)!