

ENERGIZING THE FUTURE

ENVIRONMENTAL SERVICES

WOLFTANK
GROUP



ABOUT WOLFTANK GROUP

Wolftank Group is a global technology leader in energy and environmental solutions with over 70 years of experience. Serving customers in more than 20 countries, the Group provides advanced solutions for decarbonizing transportation and building zero-emission mobility infrastructures.

Key offerings include mobile and stationary turnkey modular hydrogen and LNG refueling solutions, industrial coatings that provide unparalleled protection for tanks and pipelines in harsh environments, comprehensive environmental soil and groundwater remediation, and recycling services. Wolftank Group operates subsidiaries in eight countries across three continents.



WOLFTANK
ITALY

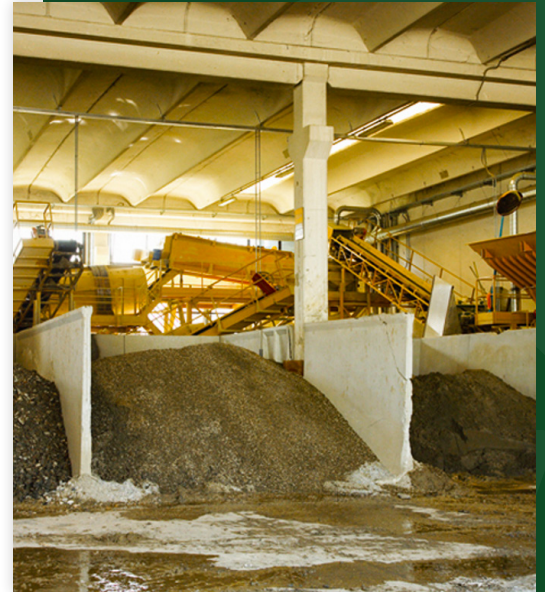


WOLFTANK
ROVERETA

ENVIRONMENTAL SERVICES FOR SUSTAINABLE INDUSTRIAL DEVELOPMENT

Wolftank Group is a specialist in environmental consultancy and design, emergency environmental damage containment and soil and groundwater remediation. We also provide decommissioning and remediation services for disused industrial, logistics and commercial infrastructure for both the oil and non-oil sectors, as well as many other services.

We have been successfully managing environmental projects for more than seventy years and support our clients in the responsible development of their business activities. Our solutions are tailored to fit, cost-effective and reliable, always in compliance with local, national, and international legislation. Projects are approached from a holistic point of view, with a 360° vision that covers the entire work process. Our services are based on the concept of circularity, including waste management to implement the entire recovery cycle. The part of the infrastructure that is no longer needed is dismantled and the soil is restored to its original healthy state.



OUR TRACK RECORD AT A GLANCE

>4,000

environmental
consultancies,
due diligences and
investigations carried
out

~6,500

environmental
remediation projects
for soil & ground-
water (partly with
in situ equipment)
completed

1,000

tank replacement
and obsolete stations
successfully
decommissioned

~1,400

environmental Emer-
gency Responses
(PIA) carried out

>500,000 TONS

per year of waste
treatment and
recovery in own
recycling plant

2,500,000 m²

remediated area

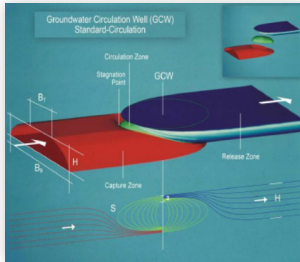
KEY ENVIRONMENTAL SERVICES

Environmental Consulting and Engineering	6
Environmental Remediation	8
Environmental Emergency Response	10
Specialized Soil Remediation Services	12
Specialized Water Remediation and Treatment Services	16
Waste Management and Recovery Systems	22



ENVIRONMENTAL CONSULTING AND ENGINEERING

Wolftank Group relies on a multidisciplinary team of professionals to support the operational units. We advise and support our customers in environmental, legal, safety and risk management scenarios such as sale of real estate in which our specialists deal with authorities in the course of determining potential environmental liability.



END-TO-END ENVIRONMENTAL CONSULTING SERVICES

We provide complete services, from preliminary investigations, liaison with local authorities, implementation of in situ plants, advanced monitoring solutions to final site remediation and off-site disposal. Through environmental site assessments, we identify contamination and apply Best Available Technologies Not Entailing Excessive Costs (BATNEEC) for site remediation. Our integrated approach covers both the technical and administrative aspects, ensuring that sites are returned to their original, uncontaminated condition.

CONSULTING SERVICES OVERVIEW

- Hydrogeological modeling and site-specific risk analysis
- Analysis of the principles of sustainability and circularity in the remediation, redevelopment and reconversion of contaminated sites
- Planning and execution of sustainable remediation processes
- Environmental remediation plans
- Environmental due diligence (ref. ASTM standards – American Society for Testing and Materials ASTM E1527 – 13 and ASTM 1528 – 14)
- Waste management
- Assessment of the sustainability of remediation
- Consulting services to ensure compliance with the DNSH (Do No Significant Harm)

Our methodologies enable our team to analyze soil and groundwater using appropriate tools and procedures, providing chemical analysis through mobile laboratories for immediate identification of contaminants, reducing project cost and time.

We also provide comprehensive consultancy services that cover environmental, legal, safety and risk management advice, supporting our customers in strategic decision-making processes, such as site acquisitions, mergers or investments.

ENVIRONMENTAL REMEDIATION

Wolftank Group offers in situ and ex situ environmental services, with highly qualified technicians performing in-depth analysis and installation of groundwater and contaminated soil remediation technologies.

As a first step, we carry out an environmental characterization of a site to determine the quality status of the soil and groundwater by comparing the results of the analyses with the limits set by legislation and regulations. If the site is found to be contaminated, our team of experts will determine the best remediation measures to bring the quality of the affected environmental matrices back to acceptable levels, considering the intended use of the site. We support our clients throughout the entire process, including dealing with public authorities. We apply the Best Available Technologies (BATNEEC) and constantly monitor remediation progress using the most advanced analytical tools.

Stages of Remediation Service

1. Definition of the conceptual model and selection of applicable technologies
2. Preliminary, operational and executive design of the remediation
3. Design and implementation of pilot tests
4. Procurement, construction, implementation, maintenance and monitoring of the remediation facilities
5. Remote control of decontamination equipment

REMEDIATION TECHNOLOGIES OFFERED

Wolftank Group's decontamination services apply the main internationally recognized remediation technologies and techniques, both established and innovative, including biological, chemical/physical and thermal processes:

- Air Sparging and Biosparging
- Soil Vapor Extraction and Bioventing
- Dual/Multi Phase Extraction
- Thermal Desorption
- Biopiles and Landfarming
- Hydraulic and Reactive Barriers
- Soil Flushing
- In situ Chemical Oxidation
- Soil Capping
- Excavation and off-site disposal
- Natural Attenuation Monitoring (MNA)



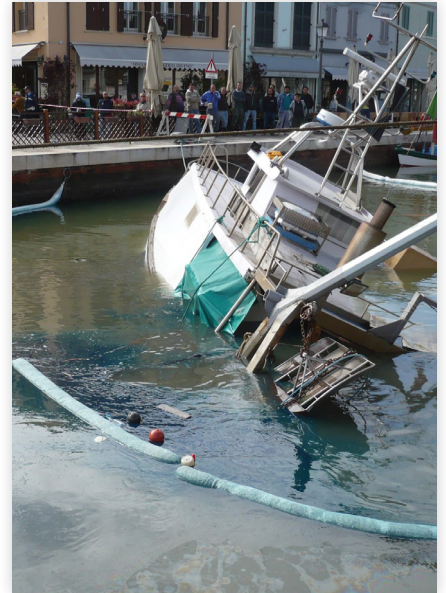
ENVIRONMENTAL EMERGENCY RESPONSE

Environmental emergencies require an immediate and effective response to minimize and control the damage that could affect human health and the environment. Rapid identification, analysis, and elimination of the source of contamination guarantee the prompt neutralization of environmental pollution and the protection of the customer.

The most common causes of this type of pollution are discharges from traffic accidents, spills in surface waters, port areas, rivers, lakes and tunnels, and spills in reservoirs, refineries, pipelines and industrial plants.

Wolftank Group has highly specialized teams, equipped with the latest vehicles and equipment, available 24 hours a day, 365 days a year. Our quick intervention ensures safety and immediate containment of damage.

Our profound understanding of all technical, legal, economic and relationship with public authorities makes our service the most complete in the sector.





SPECIALIZED SOIL REMEDIATION SERVICES





SOIL REMEDIATION

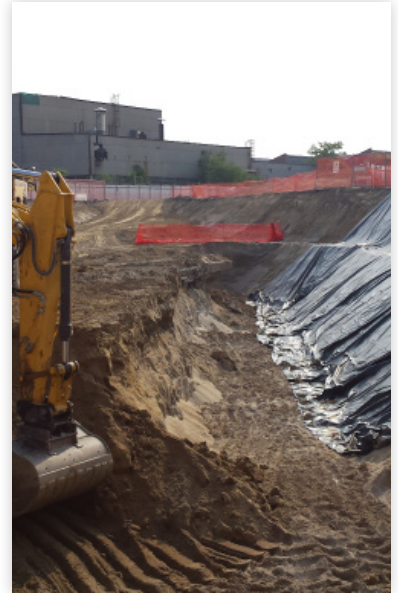
Our experts employ effective remediation techniques to return contaminated soils to their original healthy state, removing pollutants such as hydrocarbons and heavy metals.

Using advanced contaminant removal in situ technologies, including soil vapor extraction, bioventing, multiphase extraction and thermal desorption, we efficiently restore soil to healthy conditions and remove contaminants such as hydrocarbons and heavy metals. While the business remains operative, we take care of restoring the surrounding environment and bringing it to its original healthy state. In ideal conditions over 99% of the contamination can be remediated.

EXCAVATION AND OFF-SITE DISPOSAL

Excavation is often used when in situ remediation methods are not fast enough or too expensive. For example, when an area needs to be quickly returned to its original state after industrial or commercial activities have stopped, when it is necessary to install new underground structures, or when high levels of contamination pose an immediate risk to people and the environment. In these cases, excavation and off-site disposal is often a quick way to deal with soil contamination.

Wolftank Group services provide all the necessary equipment, including mobile laboratories, trucks and excavators, to manage the soil as special waste off-site and transfer it to the Group's waste treatment facilities.



SITE DECOMMISSIONING

In the industrial sector, and particularly in the oil sector, there are many situations in which an activity ceases (fuel distribution plant, depot, industrial plant, etc.). Woltank Group also carries out preparatory or complementary activities to the site remediation, such as the demolition of above and underground structures, and the cleaning and removal of storage tanks and pipelines.



SPECIALIZED WATER REMEDIATION AND TREATMENT SERVICES





GROUNDWATER REMEDIATION

Wolftank Group has long-term experience in groundwater remediation, including cleaning, sanitizing, and restoring groundwater when damage such as spills has occurred.

Starting from the installation and operation of basic Pump and Treat plants, our services extend to a wide range of groundwater remediation activities such as Air/Bio Sparging, in situ Chemical Oxidation, Bioremediation, Oxygen Microdiffusion and Natural Attenuation Monitoring. Additionally, we offer Hydraulic Barrier Operations and Maintenance for keeping the optimal operating conditions of a water extraction well.

HYDRAULIC BARRIER OPERATIONS AND MAINTENANCE

The optimal operating conditions of a water extraction well can be altered by a number of factors that, over time, can compromise its effectiveness to the point of rendering it unusable:

- Deposition of fine sediment in the well
- Clogging of the filter pack
- Deposits along the well screen
- Algae and iron bacteria

In this context, the proper operation and maintenance of a water well is necessary to preserve the efficiency of the hydraulic barrier and the installed equipment over time.



WELL WELLNESS: MAINTENANCE OF WATER EXTRACTION WELLS

Well maintenance techniques are well established but often require the use of bulky machinery that takes time to move and work on the well, resulting in long periods of well downtime. However, Wolf tank Group has designed a mobile system that brings together and condenses the main intervention techniques into a single plant, so that we can operate in a single solution, faster and with greater flexibility:

- Well casing brushing
- Surging
- Jetting tool
- Airlift
- Hydraulic impulse generator

Furthermore, well maintenance can be easily supported by video inspecting and well flow testing.



INDUSTRIAL WATER TREATMENT PLANTS

We design, build and operate water treatment facilities for a wide range of industries, using technologies such as Water Purification, Sludge Stabilization and Bioremediation.

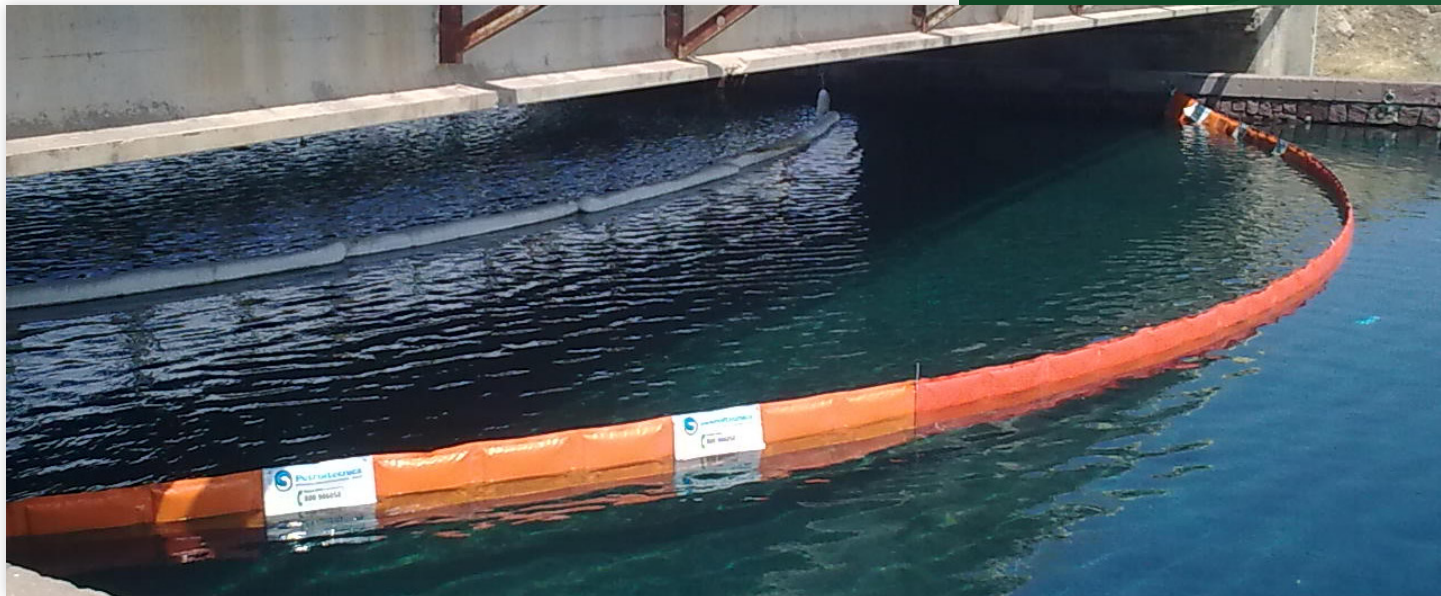
Our team of experts select the best technologies and treatment solutions with the lowest environmental impact. In addition, the solutions are tailored to our customers' specific needs, ensuring the highest levels of quality and safety.

PLASTIC COLLECTION AND RECOVERY SYSTEM ("PLASTIC CATCHER")

Waterways are often filled with floating debris, mainly plastics. Woltank Group offers an innovative modular barrier system that captures these pollutants using the natural movement of water currents.

This state-of-the-art method is an effective solution for both waste collection and environmental protection and ensures the cleanliness of the water in a sustainable way.





WASTE MANAGEMENT AND RECOVERY SYSTEMS



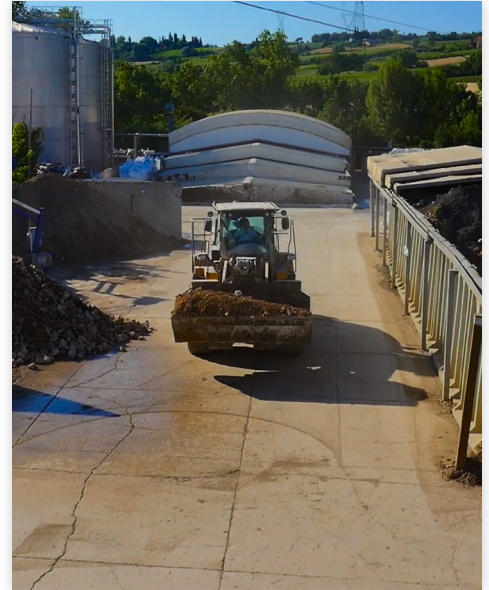


WASTE MANAGEMENT IN OWNED FACILITIES

Wolftank Group operates its own authorized treatment facilities in the north, center and south of Italy. We offer a complete waste management solution, from storage to treatment processes and reuse of treated materials.

Our processes are designed to maximize the reuse of industrial waste such as soil, sludge and liquid waste, and to convert hazardous and non-hazardous waste into reusable resources. Our main aim is to contribute to the circular economy by giving as much waste as possible a second life. We use techniques as soil washing, bioremediation by biopiling, inertization or chemical-physical water treatment.

Our innovative waste management facilities cover a total area of 20,000 square meters, of which 6,000 square meters are indoor and dedicated to authorized activities such as storage, disposal, treatment and full waste recovery. Our waste treatment techniques focus on reducing the overall impact of pollutants in the natural environment by recovering or stabilizing contaminated materials, resulting in less waste with an overall lower level of contamination than originally present.



WASTE TREATMENT TECHNIQUES

- Soil washing: soil treatment based on the separation of contaminants from the matrix through a washing process in aqueous solution.
- Bioremediation by Biopiling: used mainly for hydrocarbon contamination, working in extraction mode with autochthonous bacteria.
- Inertization: chemical stabilization of contaminants with specific products.
- Treatment of oily waters and emulsions: processes aimed at recovering the oily fraction.
- Chemical-physical water treatment: multi-stage treatment process with oxidation and filtration on quartzite and activated carbon.



ENERGIZING THE FUTURE

ENVIRONMENTAL SERVICES

Wolftank Group AG

Leopoldstraße 2, A-6020 Innsbruck

Tel: +43 (0)512 345726

ISIN: AT0000A25NJ6

WKN: A2PBHR

info@wolftankgroup.com

www.wolftankgroup.com



WOLFTANK
GROUP

