



water & waste

Water- and Waste Management

Environmental and geotechnical engineering

Chemical Engineering



www.waterandwaste.at

Fields of activity

Chemical Services



Waste Management



Geotechnics / Recycling



Water Management



Surveying



Agricultural and soil science



Details

water & waste provides the following interdisciplinary services:

- Construction site supervision
- Construction site coordination
- Supervision (construction supervision, construction supervision with regard to water legislation)
- Consulting
- Expert opinions (chemical, geotechnical etc.)
- Laboratory services
- Planning/design
- Project management
- Sampling
- Studies
- Surveying (except surveying related to incorporation into the Land Register)
- On-site assessments (verification of compaction, leaching measurements, etc.)

The company also specialises in the following areas:

- Subsoil surveying (incl. chemical and geotechnical examinations)
- Risk assessments
- Restoration and safety concepts and projects

Chemical services

Laboratory services

- Waste analysis
- Waste water analysis
- Soil testing
- Soil air analysis
- Landfill gas analysis
- Water analysis



Chemical construction site supervision

- technical and chemical monitoring and control



Waste management

General waste management

- Waste treatment
- Waste management concepts
- Contaminated sites
- Landfill technology
- Composting
- Refuse and hazardous waste collection
- Construction waste and recycling facilities
- Waste notification



Remediation of contaminated sites

- Investigation of sites suspected to be contaminated
- Investigation of abandoned sites
- Risk assessments
- Restoration and safety projects
- Analysis of alternatives
- Handling of funding / funding applications



Subsoil surveying

- geotechnical and chemical surveys
- Risk assessment for the takeover of sites



Water management

Disposal / treatment of waste water

- Waste water treatment projects
- Canalisation projects
- Indirect discharger indicators

Water supply

- Drinking water supply (wells, springs, etc.)
- Service water supply
- Drinking water treatment



Water management (general)

- Submission of documents connected with water legislation
- Expert opinions / studies / investigations
- Flood protection
- Buildings in areas where HQ30 and Hq100 class floods have occurred
- Drainage



Percolation and drainage installation projects

- Drainage installation as part of construction and civil engineering works
- Percolation systems for superstructures, car parks, etc.

Geotechnics / Recycling

Geotechnical investigations of construction sites

- Dynamic and static load plate tests
- Leaching tests
- Dynamic probing



Geotechnical laboratory services

(incl. sampling and preparation of expert opinions)

- Examination of solidified waste
- Particle size distribution
- Frost protection provisions
- Proctor tests (proctor compaction)
- Water permeability tests, etc.



Surveying

- Tacheometric surveying
- Levelling
- Construction surveying and layout

Note: no surveying in connection with Land Register and border surveys



Agricultural and soil science

- Yield optimisation
- Fertilizer economisation
- Soil fertility
- Erosion hazards
- Ecological functionality
- Soil decontamination



Fractional analysis

- Fraction I water-soluble fraction
What is dissolved directly, can be washed out, and is accessible to plants?
- Fraction II exchangeable fraction
What can be exchanged by the plant?
- Fraction III deliverable fraction
What will be delivered in the coming years? Reserve?
- Fraction IV Overall content
What is present overall?



Projects (examples)



Decontamination of contaminated areas ST19
“Gerbereideponie Schmidt” (Schmidt tannery landfill) in Weiz:

Remediation by means of the excavation of approx. 100.000 tons of waste, soil stabilisation in the area of the main road, accompanied by inspections of foundation pit and groundwater, supervision of material removal and monitoring of refilling with chemically and geotechnically suitable material.



Clearance of contaminated Fischer landfill

Local chemical monitoring during the removal of approx. 1.8 million tons of waste and subsoil. Preparation of overall assessment, supervision of excavation works, waste archaeology. Release of waste fractions for removal, monitoring and documentation of drum salvage.



Stabilisation and decontamination of contaminated Wr. Neudorf

Partial remediation by means of the excavation of approx. 300.000 tons of waste and subsoil as well as stabilisation of approx. 5 hectares of abandoned landfill site via a diaphragm wall with dewatering and disposal of landfill waste.



Decontamination of contaminated Korneuburg shipyard site

Decontamination of former industrial landfill and the shipyard, surface area of approx. 200,000 m², removal of contaminated sections of soil and demolition material, water legislation supervision.



Vienna International Airport drainage project, North Cargo Area

Project submitted for approval under water legislation for percolation systems including Investigation of excavated material, supervision of execution, monitoring of necessary permeability levels and surveying



Subsoil surveying - Bad Deutsch-Altenburg residential complex

Geotechnical statements including exploratory measures, chemical tests, foundation recommendations and assessment criteria for structural analysis

About Water & Waste

Owners:

Univ.-Lekt. Mag. Michael Huppmann
Mag. Dr. Wolfgang Stanek

CEO:

Univ.-Lekt. Mag. Michael Huppmann: under commercial and trade law
Mag. Dr. Wolfgang Stanek: under commercial and trade law
DI Paul Reinberger: under trade law for the areas of agricultural engineering and water management

Employees:

We currently employ approximately 65 people: qualified waste management personnel, qualified environmental engineers, qualified chemists, HTL (institution of higher education) technicians, CAD draftsmen, technical personnel, as well as secretarial, accounting, controlling and IT staff and trainees in the office and laboratory areas.

QS Management:

Water & waste GmbH is ISO 17025 accredited and ISO 9001 certified according to the Austrian Standards Institute and has been duly entered on the Austrian Register of Tenderers (Company code 37939).

Ongoing participation in relevant further training events (Austrian Economic Chambers, Austrian Federal Environment Agency, Austrian Federal Ministry, Austrian Water and Waste Management Association [ÖWAV], Austrian Standards Institute, Academy for Law and Taxes), is obligatory.

ISO 17025



ISO 9001



ANKÖ





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