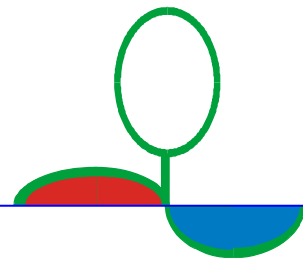


# Prof. Dr. Macholz Umweltprojekte GmbH

Contaminated Sites • Sustainable Land Management and Recycling  
Assessment of Ground and Real Estate  
Hydrogeology • Geotechnical Engineering • Indoor Air Hygiene • Toxicology



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Erlaubnis  
nach § 7  
Sprengstoff-  
gesetz



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## Presentation

dear ladies and gentlemen,  
the Prof. Dr. Macholz Umweltprojekte (environmental projects) GmbH (comparable to Ltd.) is a legally independent engineer enterprise. We are a member of the VBI and within the meaning of the statute of the VBI - the German Association of Consulting Engineers: Independent is the key word for the services provided by the planners and consulting engineers organised in VBI. They only answer to their clients and act on trust in their interests.

We offer consulting, planning, monitoring and project management with the main focus on risk assessment of pollutants in the environment (toxicology, chemical risk assessment) and with of the specialization on explosives contamination and highly toxic substances (such as warfare agents and biosubstances):

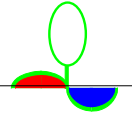
- environmental hazard chemicals monitoring and -rehabilitation,
- risk assessment (chemical investigations and biotesting; assessment of natural attenuation processes) and reduction of risks considering future use,
- sampling of soil, water and soil gas, aerial photo interpretation,
- removal of contaminated soil in order to generate rehabilitated sites for further utilization in close agreement with the relevant environmental authorities,
- remediation planing,
- comparison of alternative remediation concepts and cost estimates, particularly in preparation of first discussions with authorities,
- waste recycling concepts,
- registration and evaluation of building contaminants,
- indoor air hygiene,
- selective demolition concepts of contaminated buildings,

Sitz der Gesellschaft:  
Stahnsdorf

Geschäftsführer:  
Prof. Dr. Rainer Macholz  
Dr. Werner Linnenberg

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Steuernr. 047/116/00499

Bankverbindung:  
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BLZ 100 900 00



- provision of experts for working on contaminated sites (chemicals, asbestos) during demolition of technical equipment and plants and special hazardous materials,
- Restoration and revitalization of landfill areas,
- occupational health concepts for working in contaminated areas and buildings,
- explosive ordnance disposal (EOD),
- landfill area investigations and technology (rehabilitation conception and planing, utilization of landfill gas – electricity generation)

Our engineering enterprise has several research and development tasks (e.g. biotechnological methods for cleaning TNT-polluted groundwater; TNT explosives detectors utilize proprietary amplifying fluorescence polymers to detect trace levels of explosive materials. The level of detection is comparable to that of highly trained explosives detection dogs (EDD) – Cooperation with BAM Federal Institute for Materials Research and Testing, Berlin).

In the years 2006-2010 we are a participant in the research project of the Federal Ministry for Education and Research (BMBF) for the reduction of landuse and a sustainable land management (REFINA: [www.refina-info.de](http://www.refina-info.de)) - Evaluation of pollutants in landrecycling and sustainable land management on the basis of availability/bioavailability - BioRefine).

Our team comprehends the disciplines hydrogeologie, geology, geotechnical engineering, chemistry, food chemistry, toxicology, engineering and environmental engineering.

Dr. Rainer Macholz as a consultant engineer is registered member No. 21194/97 of the Brandenburg Chamber of Engineers and member of the outstanding engineering association ITVA e.V.

We have special experience in recycling of large former military bases up to 1.500 ha (with considerable contamination by explosive and munition with proof of the market costs; engineering-type monitoring; big fuel depots, gas stations, areas with oil phase on the groundwater surface etc.; quality assurance/quality management; rehabilitation and waste management).

We have extensive experience in the study and evaluation of indoor air pollutions and emissions of household items and building materials.

Our staff has the following certificates among others:

Certificate for work in contaminated areas (BGR 128, formerly ZH 1/183), the Federal Employer`s Liability Insurance Association

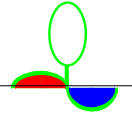
Recognition from the Federal Employer`s Liability Insurance Association as a lecturer and leader for the education and training course for working in contaminated areas (BGR 128),

Certificate as Environmental officer for waste under Federal Act §§ 54.55

Certificate witness course for demolition, rehabilitation and maintenance of asbestos products in accordance with TRGS 519, Appendix 3,

Certificate of participation in the industrial Seminar for occupational safety and occupational medicine asbestos removal ,

Certificate occupational safety on construction sites (contents and as proof of knowledge by RAB 30, Appendix B; performed by RAB 30, plant (D).



Since 2002 our engineering enterprise has been certified according to [ISO 9001:2008](#) for the scope of “[planning, consulting and project control of engineering in environmental protection and geo techniques, soil and water protection, land recycling, waste management, landfilling and indoor air hygiene](#)” and has been annually successfully re-certified to 2009. Our enterprise has been certified by TÜV CERT-certification office of TÜV Anlagentechnik GmbH (TÜV Rheinland Berlin Brandenburg GmbH), is registered under the certificate No. 01 1000 025049 and is by certified since 2002 and was up to 2009.

As subcontractors are usually selected companies, which are certified or accredited. Thereby we get an optimised price-service ratio.

We identify as References:

- Ministry of Finance, departement Cottbus (Mr. Friedrich)
- Military District Administration East of the armed forces, Strausberg
- BLB - Brandenburg county organization for real estate and construction, Cottbus, Frankfurt/Oder, Potsdam, Bernau
- Brandenburgische Boden GmbH, Zossen (Prof. Großmann, Mr. Isenberg)
- Berlin Airports GmbH (Mrs. Dr. Baierova; Mr. Fischer, Mrs. Bauerfeld)
- private investors (e.g. Mr. Fischer, Krongut Bornstedt; Dr. Schemmink, wind power area, industrial area Jüterbog; Mr. Dr. Maywald, Vulcanized Fiber Area, Werder)
- Dr. Schmidt Grundbesitz-Management (Real Estate Management) GmbH, Berlin
- Wind energy enterprise ENERCON GmbH, Aurich/Magdeburg
- SpreeUrban Entwicklungsgesellschaft mbH and Co. Real Estate KG, Berlin
- County/administrative district Dahme-Spreewald
- County/administrative district Teltow-Fläming
- Community Nuthe Urstromtal (town mayor Mrs. Nestler)
- Community Stahnsdorf (Mr. Augustin)
- Berlin Real Estate Management GmbH (BIM)

etc.

Our actual internet presentation [www.umweltprojekte.de](http://www.umweltprojekte.de) informs about national and international references, project descriptions, scientific publications in books and journals and fotos of our performance.

Sincerely yours

Prof. Dr. Macholz Umweltprojekte GmbH

Prof. Dr. sc. nat. Rainer Macholz  
Managing Director

