

Alpha Cleantec AG

Newsletter February 2022

Dear Madam or Sir

We hope this email finds you well, healthy, and working with full power despite the still ongoing pandemic.

From our R&D department we are happy to provide you with a new update regarding customer projects.

Successful feasibility study completed with a large Italian environmental company.

The Problem: The feasibility study was with an Italian environmental company that provides a wide range of decontamination services, project design and also owner of part of the sites. One of the unsolved issues for the company is DDT pollution in soil. As the pollution is very dangerous and the required decontamination limits are very low (ppb's). The target of the project was examination of the SOA-AFA technology efficiency for **DDT** decontamination in the **contaminated soil** and meeting of Italian regulation.

The Objective It is therefore the intention of the customer to rapidly, simply and cost-effectively decontaminate the **soil** from **DDT leftovers** to meet Italian threshold value regulation for the current contaminant.

The Solution: We have implemented our SOA-AFA solution as a treatment agent based on site batch approach. Our approach can be successfully applied and meet Italian regulation after second treatment cycle.

Results:

Contaminant	Before Treatment (ppm mg/kg)	After First Treatment (ppm mg/kg)	Conversion After First Treatment (%)	After Second Treatment (ppm mg/kg)	Conversion After Second Treatment (%)	Leaching Test after Second Treatment (ppm/mg/kg)
DDx	236.9	28.4	88	2.5	91	< 0.01
DDx	282.2	29.6	89.5	2.3	92	< 0.01
DDx	190.5	2.8	98.5	0.04	97	< 0.01

Maybe you face similar challenges in your business. Then please feel free to contact us.

<https://www.linkedin.com/company/alpha-cleantec-ag/>



About Alpha Cleantec AG

We believe that our eco-system requires looking after so we have a world worth living in to pass to our next generations. Decontamination of soil and water from hazardous contaminants plays a major role in this regard, in our view. This is why we established Alpha Cleantec AG as an environmental technology company in 2016 with a vision to provide safe, green, rapid, efficient and cost effective technologies to resolve environmental harms and hazards caused by inadequate human and industrial activities.

Alpha Cleantec AG provides two technologies, AFA and SOA, achieving decontamination ratios of up to 97% for a wide range of contaminants in just hours (such as Hydrocarbons, BTEX, Petroleum leftovers, Aromatics, PAHS, Chlorinated Solvents, PCBs, Dioxins as well as Pesticides and Herbicides) to be applied for soil, wastewater and railway ballast treatment.

Table of contaminants treatable by our technologies

CONTAMINANTS	IN-SITU		ON SITE	
	SOA	AFA	SOA	AFA
BTEX				
Benzene	*	*	*	*
Toluene	*	*	*	*
Ethylbenzene	*	*	*	*
Xylene	*	*	*	*
PETROLEUM HYDROCARBONS				
Gasoline Range Organics (GRO)	*	*	*	*
Diesel Range Organics (DRO)	*	*	*	*
Oil Range Organics (ORO)	*	*	*	*
AROMATICS				
Chlorobenzene	*	*	*	*
Bromobenzene	*	*	*	*
Dichlorobenzene	*	*	*	*
Nitrobenzene	*	*	*	*
Phenol	*	*	*	*
Styrene	*	*	*	*
Naphthalene	*	*	*	*
Trichlorobenzene	*	*	*	*
Trimethylbenzene	*	*	*	*
PAHS				
Phenanthrene	*	*	*	*
Naphthalene	*	*	*	*
Acenaphthylene	*	*	*	*
CHLORINATED SOLVENTS				
Tetrachloroethylene	*	*	*	*
Trichloroethene	*	*	*	*
Dichloroethene	*	*	*	*
Vinyl chloride	*	*	*	*
Tetrachloroethane	*	*	*	*
Trichloroethane	*	*	*	*
Dichloroethane	*	*	*	*
Dibromochloroethane	*	*	*	*
Bromodichloromethane	*	*	*	*
Carbon tetrachloride	*	*	*	*
Chloroethane	*	*	*	*
Chloroform	*	*	*	*
Chloromethane	*	*	*	*
Chlorotoluene	*	*	*	*
Methylene chloride	*	*	*	*
PCBS	*	*	*	*
DIOXINS	*	*	*	*
PESTICIDES AND HERBICIDES				
Glyphosate	*	*	*	*
Goal	*	*	*	*

We plan to inform you in future whenever we accomplished projects, pilots or case studies. If you do not wish to get our company news, please let us know.

Kind regards

Mit freundlichen Grüßen
Andreas Danner

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