

Dear Madam or Sir,

We hope this email finds you well, healthy, and fully charged with energy after pleasant winter holidays. Today we send you our next Newsletter containing the January updates.

We are very proud to announce that our new solution for **municipal wastewater plants** has been chosen by the **Suez** group during the open challenge and we are entering the next stage of development with **Suez**.

We also want to take an opportunity to welcome our new team members Ella and Daniel who joined our R&D department. Learn more about Ella and Daniel on our LinkedIn channel:

<https://www.linkedin.com/feed/update/urn:li:activity:6887701372272156672>

<https://www.linkedin.com/feed/update/urn:li:activity:6889875587301691392>

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

Successful feasibility study completed with an International environmental engineering company.

The Problem: The feasibility study was with International environmental engineering company that provides a wide range of decontamination services and project design in the field of soil, water, and wastewater treatment. The target of the project was treatment of **contaminated wastewater**. The main contaminants in these samples were hydrocarbons, solvents and dioxanes.

The Objective It is therefore the intention of the customer to decontaminate wastewater rapidly, simply, and cost-effectively from organic materials to meet the EU threshold values regulation for each group of contaminants.

The Solution: We have implemented our SOA-AFA solution as a treatment agent based on onsite batch approach. As it is shown below, our reagent is an efficient reagent for this type of wastewater, with a conversion of 87-97% after single treatment.

Results:

Sample No.	Contamination	Contamination Level (measured value before treatment) (ppm mg/L)	After treatment (ppm mg/kg)	Conversion (%)
1	1,4-Dioxane	37.4	1.1	97
	C ₁₀ -C ₄₀	220	6	97
2	1,4-Dioxane	9.1	1.1	87
	C ₁₀ -C ₄₀	187	24	87

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				
Phenathrene	*	*	*	*
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	*	*	*	*

Alpha Cleantec AG

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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

Alpha Cleantec AG

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