Alpha Cleantec AG

Newsletter September 2022

Dear Madam or Sir,

We hope this email finds you well and healthy. Today we are sending you our Newsletter containing the September updates. This month we exhibited and participated in four exhibitions and events: Contamination Expo 2022, Birmingham, UK; Innnotrans 2022, Belin, Germany; RemTech Expo 2022, Ferrara, Italy and a virtual WaterMatch 2022 event. It was an excellent opportunity to present our soil and water decontamination technologies and our new vegetation control solution. We also enjoyed the technical presentations, relevant discussions, meetings with potential customers, and networking.

Additionally, we were very proud to be one of the winners of Innovation Awards 2022 at the Contamination Expo 2022. We want to thank all the participants and the jury that supported our technology.

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

Successful feasibility study completed with a manufacture of personal care products in the UK.

The Problem: The feasibility study was done with a personal care manufacturer in the UK. At the end of the production process, the manufacture generate wastewater (emulsion) with a high concentration of organic materials, mainly oils, alcohols, and emulsifiers. The manufacturer is looking for a solution to recover and reuse the wastewater or to decontaminate the wastewater to the limit that can be disposed of by a standard sewage system. The project's target was an examination of the SOA-AFA technology efficiency for this type of wastewater and to allow efficient and cost-effective recovery of the following process wastewater.

The Objective Therefore, the customer intends to rapidly, simply, safely, green, and cost-effectively decontaminate wastewater from organic leftovers and recover the process wastewater.

The Solution: We have implemented our SOA-AFA solution as a treatment agent based on an on-site batch approach. As a result, the process was efficient and reached the required levels of decontamination after a single treatment with a short contact time.

Results:

Contamination	Before Treatment (ppm | mg/L)	After treatment (ppm | mg/kg)	Required level (ppm | mg/kg)	Conversion (%)
COD	45,000	890	1,000	98

Alpha Cleantec AG

Newsletter September 2022

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 Cleatec 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.

Alpha Cleantec AG

Newsletter September 2022

Table of contaminants treatable by our technologies

	IN-SITU		ON SITE	
CONTAMINANTS	**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	◆		◆	

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
Phone: +49 (0) 6221 64924 68
info@alphacleantec.com · www.alphacleantec.com