#### Entries for April 16-30, 2025

#### Market/Commercialization Information

# RARITAN BAY SLAG SUPERFUND SITE, OPERABLE UNIT 1 (OU1) -- SEAWALL SECTOR, OLD BRIDGE TOWNSHIP AND SAYREVILLE, MIDDLESEX COUNTY, NEW JERSEY (SRCSGT) U.S. Army Corps of Engineers (USACE), Kansas City District, Kansas City, MO Contract Opportunities on SAMio, ow W912025553001, 2025

This is a sources sought notice for marketing purposes only. The U.S. Army Corps of Engineers, Kansas City District, seeks responses from qualified firms interested in conducting soil and sediment remediation under NAICS code 562910at the Rarraten Bay Slag Superfund Site in the Laurence Harbor section of Old Bridge. Remediation involves excavation and removal site, being conducted in phases, with this work addressing the Seawall Sector (Areas 1, 2, 3, 4, and for an of Old Bridge Margaret's Creek Sector (Areas 9) that had not been remediation charup [eve] of 0.00 movies excavation and removal site, battery casings and associated waste (including miscellaneous demolitor) dehrs in the form of concrete and various brick(s), and excavation and removal site, battery casings and associated waste (including miscellaneous demolitor) dehrs in the form of concrete and various brick(s), and excavation and removal site, aduction and removal site, battery casings and associated waste (including miscellaneous demolitor) dehrs in the form of concrete and various brick(s), and excavation and removal site, aduction aduction aduction and removal site, aduction aduction as USACF, U.S. Environmental Protection Agency, National Occasenatic and Atmospheric Administration, New Jersey Department of Environmental Protection, Agency, National Occasenas and removal site aduction, adverted and adverted and adverted and adverte adverted and adverted andverted and adverted and adverted andverted and adverted and

UMIAT RELEASE INVESTIGATION (SRCSGT) U.S. Department of Transportation, Federal Aviation Aministration, Regional Acquisition Services, Fort Worth, TX Contract Opportunities on SAM-gov 697DCK-25R-00353, 2025

Contract opportances on Sanigov BDCR22-Process only. The Federal Aviation Administration seeks to solicit statements of interest and capabilities from Small Business Administration (SBA) SEDB 8(a) certified business concerns capable of performing a remedial action and remedial investigation under NAICS code 552910 at the former Umait Radio Range in Alaska. Generally, the scope will be to delineate the metal- and petroleum-contaminated soil, sediment, and surface water and sediment samples for KCA Interact (Isso) et al. (Isso) and a former form set. Work will include the collection of surface water and sediment samples for Alaska; the calculation of TAA activities and a former form set. Work will include the collection of surface water and sediment samples for Alaska; the calculation of TAA indivisor and year of the state of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State of Alaska; the calculation of TAA and Year on the State S

# RELIEF WELL ENGINEERING WITH GEOPHYSICAL SURVEYING FOR THE GREAT LAKES AND OHIO RIVER DIVISION US Army Corps of Engineers Engineer Division Great Lakes and Ohio Contract Opportunities on SAM.gov V9123725RA0003, 2025

The purpose of this notice is to gain knowledge of potentially qualified small business sources under NAICS code 541330 to include Small Business, Small Disadvantaged Business, Certified HUBZone, Woman-Owned, and Service-Disabled Veteran-Owned. Work would occur as assigned to Districts within the U.S. Army Corps of Engineers, Great Lakes and Ohio River Division, which includes the Buffalo, Chicago, Detroit, Huntington District. Contractor shall demonstrate through professional registration, company and personnel resumes, executed examples, and supporting customer feedback documents that brugh the Buffalo, Chicago, Detroit, Huntington District. Checkback documents and through professional registration, company and personnel resumes, executed examples, and supporting customer feedback documents and brute ability to groundwater cleanup related to relief wells; and environmental studies and knowledge required related to relief wells, and collector systems. Interested Contractors should provide artsprinted interest. JACS

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#### Cleanup News

## MULTI-YEAR PASSIVE IN SITU TREATMENT OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) WITH AN HRX WELL® Divine, C., J. Wright, A. Baumeister, J. Lang, D. Liles, M. Kladias, M. Lubrecht, D. Ombalski, T. Olechiw, M. Riggle, and B. Grunewald. I Remediation 35(3): e70021(2025)

Results of the first field demonstration of a Horizontal Reactive Treatment Well (HRX Welle)) designed to treat PFAS are presented. Based on treatability test results and numerical design modeling, a 645-ft long HRX Well was constructed with removable cartridges containing granular activated carbon for passive PFAS treatment. It has operated continuously with minimal operation and maintenance activity for more than three years. Total PFAS treatment efficiencies ranged from 53% to 74%, resulting in a sustained and average PFAS mass discharge reduction of -5 mg/day. The HRX Well (Wells could be traatlend to adverage average the estimated treatment zone, and wells could be paired with other technologies in an overall plume treatment stategy. The study highlights the importance of understanding groundwater dynamics and PFAS concentration trends when designing the wells and interpreting results. It also indicates it may be prudent to design most HRX Wells with a active (pumping) configuration point, which addies to moders constantiation and consease capture. Results affirm that HRX Wells may be a viable in situ remediation technology for FFAS.

### PASSIVE AND SOLAR-POWERED BIOVENTING IMPLEMENTATION TO AUGMENT NATURAL SOURCE ZONE DEPLETION (NSZD) OF PETROLEUM LIGHT NON-AQUEOUS PHASE LIQUIDS (LNAPL) IN THE SUBSURFACE Wheeler, K. 1 I DCHWS East 2025 Spring Symposium, 2-4 April, Philadelphia, PA, poster, 2025

This presentation discusses performance monitoring of bioventing to document leading and leaging indicators of remedial progress (a.g. groundwater concentrations, geochemistry, temperature changes, and sell gas composition and concentrations) to support the calculation of sexociated biodegradation relates a performance monitoring of bioventing biodegradation and a support the calculation of modeling and 02 depletion data to document remedial progress and to optimize the bioventing operations to enhance MSZD as an effective remedy for performance multivate. LINAPL sites. LINES //cleaned and to document remedial progress and to optimize the bioventing operation to enhance MSZD as an effective remedy for performance MAPL sites.

# IN-SITU TREATMENT OF A LONG CARBON TETRACHLORIDE AND OTHER CHLORINATED SOLVENT PLUME ASSESSED WITH GROUNDWATER MODELING, TRACERS, MOLECULAR DIAGNOSTIC TOOLS, AND COMPOUND-SPECIFIC ISOTOPE ANALYSIS (CSIA) Birk, G. 1 AEHS Foundation d'una literational conference on Solis, Sediments, Water and Energy 21-24 October, Amherst, MA, 35 slides, 2024

A project addressed a 900 ft x 600 ft groundwater plume impacted with carbon tetrachoride (CT) ranging from 4 to 2 4,000 mg/L, along with other solvents in the uppermost, relatively thin saturated sand unit at a site in Kansas. The remediation approach consisted of using direct push technology injections (DPT) to distribute the amendment in the suburface. The injection points formed linear target separated by the equivalent of 2 years of groundwater flow. Three permanent wells for large batch soluble-based amendment injections upper larget and the soluble distribute the amendment in the suburface. The injection points formed linear target separated by the equivalent of 2 years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of a years of groundwater flow. Three permanent wells for large batch soluble-based amendments equivalent of groundwater flow and the groundwater flow. Three permanent wells for a years of groundwater flow. Three permanent wells for the soluble composition of groundwater flow and the groundwater flow and the groundwater flow and the permitting of the soluble composition of groundwater flow and the permitting of groundwater flow. Three permanent wells and the permitting of the textremanent of the permitting of a baseli

# Grant S. I AEHS Foundation 40th Annual International Conference on Solis, Sediments, Water and Energy 21-24 October, Amherst, MA, 24 sildes, 2024

Or JNLES/DK 51/LES/DK 201/LES/DK See Remedial

#### Demonstrations / Feasibility Studies

## IN SITU BARRIER FOR PFAS AT MID-ATLANTIC DOD SITE Seymour, K. I I DCHWS East 2025 Spring Symposium, 2-4 April, Philadelphia, PA, 19 slides, 2025

A pilot colloidal activated carbon (CAC) barrier was installed in a former fire training area to explore the approach's efficacy in cleaning up PFAS-impacted groundwater and test the CAC's distribution in the subsurface. The presentation highlights the modeling to determine the appropriate CAC dosing, the use of passive flux measurement tools to assess PFAS flux and performs and distribution testing, and the long-term effectiveness of treatment at the downgradient edge of the barrier in both the shallow and deep groundwater. Nearly two years of post-application data are presented, showing a >96% reduction in PFOA and PFOA and

# COMPARING ENHANCED NATURAL RECOVERY AND ENHANCED NATURAL RECOVERY WITH ACTIVATED CARBON: A CASE STUDY IN THE LOWER DUWAMISH WATERWAY Magar, V.S., J.M. Conder, L. Nells, D. Williston, J. Stern, D. Schuchardt, A. Crowley, P.D. Rude, J. Florer, and J. Flaherty. Integrated Environmental Assessment and Management vjaf040, 2025

Integrated Environmental Assessment and Phanagement sported accord EPA and the Washington Department of Ecology directed a three-year pilot study to determine whether activated carbon (IAC) (Coconut Fine Mesh Activated Carbon graded 200-1.000 µm) would enhance the effectiveness of enhanced natural recovery (ENR+AC) to remediate PCBs in aquatic sediments in the Lower Duwamish Waterway (LDW). Three 1-acre areas were established within the LDW, representing an interidal area, an area prove to scour, and a subtidal area, where EMR+AC and ENR would be compared. This target ENR and ENR+AC pilot structure to the effectiveness are established within the LDW, representing an interidal area, an area prove to scour, and a subtidal area, where EMR+AC and ENR would be compared. This target ENR and ENR+AC pilots structure threes established within the men depth of material across pilot struct angle end of material across pilot structure to the SIM and Carbon (IAC) and AC remained and AC

## EVALUATION OF A PASSIVE APPROACH TO TREAT LARGE, DILUTE CHLORINATED VOC GROUNDWATER PLUMES Lippincott. D.R. ESTCP Project ER-201629, 2 pp, 2025

This project impect to index the effective insistu biological treatment of large, dilute cVOC plumes using a sustainable and cost-effective approach. The critical objectives were to determine whether an off-the-orid biosparging syste sustainably and economically deliver gaseous amendments in a biobarrier configuration across a large, dilute plume, stimulating indigenous bacteria to biodegrade target cVOCs, and whether consistent in situ treatment to target leve feasible. During the project, an oxygen and propane with ammonia cometabolic biosparging system in a barrier configuration was successfully utilized to degrade target cVOCs, and whether consistent in situ treatment to target leve is a subicipation of the project, as virget whether and the subicipation across a large, dilute plume, stis configuration was successfully utilized to degrade target cVOCs, and whether consistent in situ treatment to target leve is subicipation processes are insufficient to protect receptors. Application of the improved methods to treat cor may result in significant cost stirained was constrained across configuration was constrained and across a large, dilute plumes is a significant drive of remediation costical constrained across the improved methods to treat cor may result in significant cost strained across and the subicipation across constrained across and the subicipation across constrained and the subicipation across a levels was strated that

## INNOVATIVE IN-SITU PFAS REMEDIATION VIA IN-WELL GROUNDWATER RECIRCULATION AND FOAM FRACTIONATION Rabah, N. I AEHS Foundation 40th Annual International Conference on Soils, Sediments, Water and Energy 21-24 October, Amherst, MA, 13 slides, 2024

This paper presents the results of the first successful field application of the ART-PFAS technology developed and implemented at a former industrial fractionation/stripping. It integrates proven synergistic in situ remediation of the ART-PFAS technology developed and implemented at a former industrial fractionation/stripping. It integrates proven synergistic in situ remediation processes, including groundwater recirculation, soli flushing/washing, volalitization, and in-well stripping via air sparging and soli vapor extraction (SVE). Air sparging is used in ART-PFAS technology developed and implemented at a former industrial recirculation/stripping. It integrates proven synergistic in situ remediation processes, including groundwater recirculation, soli flushing/washing, volalitization, and in-well stripping via air sparging and soli vapor extraction (SVE). Air sparging is used in ART-PFAS technology developed and implemented at a former industrial can be recovered (bitto ondersate by modifying) by forvitallic ativities and by accessing the time the water is exposed to FFAS partitioning and enhancing soli washing/thushing across the water table and capiliary fringe. Air sparging affects groundwater recirculation by providing a hydrallic divide and packer functions. The test demonstrated mass reduction of long-chain and short-chain PFAS with more preferential removal efficiences of long-chain PFAS. After a few months of operation, FFAS was enriched in the recovered for and on 100 300 times withing was the veet produced after recirculating >500.000 (as) of groundwater. PFAS concentrations were reduced by 50%-100% in the test well and by 25%-40% in a nearby monitoring well. PFOA and PFOS concentrations in the test well were reduced of the mericulation and the *Chain PFAS*. Standards. https://artimetel.com/secset.phi/sta/sase.https://artimetel.com/stardard.https://artimetel.com/stardard.https://artimetel.https://artimetel.https://artimetel.https://artimetel.https://artimatel.https://artimetel.https://artimetel.htt

#### Research

## EX SITU TREATMENT OF PFAS-IMPACTED GROUNDWATER USING ION EXCHANGE WITH REGENERATION Fuller, M.E. SERDP Project ER18-1027, 233 pp, 2024

This project aimed to develop treatment trains for PFAS-contaminated groundwater consisting of jon exchange (1X) using novel resins coupled with sonochemical destruction of PFAS in waste regeneration brine. While the project focused on jon exchange remove PFOA and PFOS, it also examined the treatment of the broader range of PFAS (shorter- and longer-chain perfluoroalky) acids and sulfonates) and precursors (fluorotelomer sulfonates). The technical approach consisted of lab experiments to identify and test new IX resins combined with a small-scale field study to demonstrate their effectiveness in removing a broad range of PFAS in solve elevation of the davelopment and validation of effects are lab examined. An Excel-based tool was also developed to guide which media or combination of media would be cost-effective for PFAS removal under various conditions. The main benefits were (1) the development and validation of effects and to call efficient IX resins and resin segmentation waste treatment approaches to destroy accumulated PFAS and precursor (1) the development and validation of effective for resin regeneration waste treatment approaches to destroy accumulated PFAS and precursor (1) the development and validation of effective for regeneration waste treatment tain, and (4) preparing a tool that provides technical and cost guidate which regeneration waste treatment approaches to destroy accumulated PFAS and precursor in regeneratives (1) field pluston waste treatment tain) and (4) preparing a tool that provides technical and cost guidate of real regeneration waste. The set of the store to the store treatment train and regeneration waste treatment tain) and regeneration waste treatment tain and (4) preparing a tool that provides technical and cost guidate for real regeneration waste. Tainsone west-1 kausene west-1 kausen

# EMERGING PER- AND POLYFLUOROALKYL SUBSTANCES IN TAP WATER FROM THE AMERICAN HEALTHY HOMES SURVEY II Boetger, J.D., N.M. DeLuca, M.A. Zurek-Ost, K.E. Miller, C. Fuller, K.D. Bradham, P. Ashley, W. Friedman, E.A. Pinzer, D.C. Cox, G. Dewalt, K.K. Isaacs, E.A.C. Hubal, and J.P. McCord. Environmental Science & Technology 39(5):2686-2698(2025)

A study analyzed 680 tap waters amples from the American Healthy Homes Survey II for PFAS using non-targeted analysis (NTA) to expand the range of detectable PFAS. About half of the identified PFAS were found only by NTA, based on detection frequency and relative abundance. The study identified 75 idstinct PFAS, including 57 exclusively detected by NTA. The identified PFAS are members of seven structural subclasses differentiated by their head groups and degree of fluorination. Clustering analysis categorized the PFAS in the PFAS into four co-abundance groups and materiated by specific PFAS subclasses. On the group inquelity identified by MTA contains zwitterion PFAS and other PFAS transformation products, which are specific PFAS subclasses. On the PFAS into four individent of the indit of the individent of the individent of the

### ANAEROBIC BIODEGRADATION OF PERFLUOROOCTANE SULFONATE (PFOS) AND MICROBIAL COMMUNITY COMPOSITION IN SOIL AMENDED WITH A DECHLORINATING CULTURE AND CHLORINATED SOLVENTS Lorah, M.M., K. He, L. Blaney, D.M. Akob, C. Harris, A. Tokranov, Z. Hopkins, and B.P. Shedd. I Science of The Total Environment 932:172996(2024)

A study investigated the potential to utilize microbially-mediated reduction (bioreduction) to degrade PFOS and other PFAS by adding a dehalogenating culture, WBC-2, to soil obtained from an AFFF-contaminated site. A substantial decrease in total PFOS mass (soil and water) was observed in microbially-mediated from an AFFF-contaminated site. A substantial decrease in total PFOS mass (soil and water) mon-detectable concentrations of potential metabolities in full FAS analyses, including after application of TOP, indicated that defined upwater for the contrast, PFOA and 62 fluorotelomer sulfnate (6.2 FTS) concentrations did not decrease in total PFOS mass (soil and water) mon-detectable concentrations of potential metabolities in full FAS analyses, including after application of TOP, indicated that definite on contrast, PFOA and 62 fluorotelomer sulfnate (6.2 FTS) concentrations did not decrease in the agence of the metabolities and degradation pathways is needed. Population abundances of known dehalorespiters did not dhange with PFOS removal uning the experiment, have important implications for the development of in sub lubernediation methods for PFAS and davatering knowledge of natural sub-figure and the domination contrast. The low or fully and the important implications for the development of in sub lubernediation methods for PFAS and advanced in the development of in sub lubernediation methods for PFAS and advanced or natural knowledge of natural sub-figure and the formation methods for PFAS and advanced in knowledge of natural sub-figure and the sub lubernediation methods for PFAS and advanced in knowledge of natural sub-figure and the formation methods for PFAS and advanced in the development of in sub lubernediation methods for PFAS and advanced or natural knowledge of natural sub-figure and the sub lubernediation methods for PFAS and advanced in the development of in sub lubernediation methods for PFAS and advanced in the development of in sub lubernediation methods for PFAS and advanced advanced advanced

ENHANCING GROUNDWATER REMEDIATION EFFICIENCY THROUGH INTEGRATING PUMP-AND-TREAT SYSTEM AND GROUNDWATER CIRCULATION WELL Zhang, Z., B. Ran, C. Gong, N. Yan, J. Yang, C. Shen, and Y.-L. Wang. Process Safety and Environmental Protection 1941454-1446(2025)

The effectiveness of jointly operated groundwater circulation wells (GCW) and pump-and-treat (P&T) in the remediation of contaminants was examined in a sandbox experiment and numerical simulations. Findings demonstrate that integrating GCW with P&T results in a more effective and dynamic hydraulic regime than the conventional single-technology approach. The jointly operated system demonstrated efficiency in contaminant capture, with an expanded radius of influence compared to the use of either method alone. The GCW also reduces the size of unsaturated zones created by P&T, enhancing the overall remediation effectiveness. The innovative hybrid approach improves contaminant capture, making it a promising strategy for effective and sustainable groundwater remediation, especially in complex geological environments.

## BACKGROUND PFAS CONCENTRATIONS IN SURFACE SOIL OF MASSACHUSETTS AND NORTHERN NEW ENGLAND: REGIONAL AND GLOBAL SOURCE PATTERNS AND REGULATORY RELEVANCE McIntosh, L., C. Rockwell, S. Olney, L. Campe, R.D. Collins, J.D. Bryant, V. Ward, P. Harring, and J. Occhialini. I Remediation 35(2):e70013(2025)

In this study, surface soil (0-15 cm below grade) was collected from 100 locations at 25 properties across Massachusetts and analyzed for 36 PFAS. PFOS and PFOA were detected in every sample at the highest concentrations relative to other PFAS. PFCAs were more common than PFAS. PFSS-FAS concentrations were include to a consistent pattern. No fluorotelomers, perfuring a final detected in every sample at the highest concentrations relative to other PFAS. PFCAs were more common than PFAS. PFSS-FAS concentrations were include the negative to a constant pattern. PFOS and PFOA were detected PFAS and are found at the highest concentrations relative to other PFAS. PFSCs used to a constant pattern include the subject of a constant pattern. PFOS and PFOA are the most commonly detected PFAS and are found at the highest concentrations. The predominant PFAS present and here concentrations are also and are more like deposition estimates resulting from global densities in a constant pattern. PFOS and PFOA are the most commonly detected PFAS and are found at the highest concentrations. The predominant PFAS present and here concentrations are cleaning bar contents in the substration acids were cleaning bar contents in the substration and are more like deposition estimates resulting from global densities in concentrations. The predominant PFAS present and here concentrations are used in the deposition estimates resulting from global densities include a consistent pattern. PFOS were even though no onsite release has occured. Given the ubiquity of PFAS today, soil anthropogenic background concentrations should be considered during the promute studies. . soil

# SOURCES OF POLYCHLORINATED DIBENZO-P-DIOXINS AND -FURANS TO SEDIMENT IN THE NEWTOWN CREEK SUPERFUND SITE Chitsaz, M., M. Al Hello, D.R. Burris, K.L. Francisco, and L.A. Rodenburg. Science of The Total Environment 958:17771(2025)

Sources of polychlorinated dilenzo-p-dioxins and -furans (PCDD/Fs) to the sediment of Newtown Creek were investigated using Positive Matrix Factorization (PMF) to analyze two data sets containing data on concentrations of PCDD/Fs and PCDD/Fs plus PCBs. The PCDD/F data set generated eight factors that did not help identify PCDD/F sources. The combined PCDD/F plus PCB data set generated eight and refining of mata on concentrations of PCDD/Fs plus PCB data set generated eight factors that did not help identify PCDD/F sources. The combined PCDD/F plus PCB data set generated eight factors that did not help identify PCDD/F sources. The combined PCDD/F plus PCB data set generated eight factors that did not help identify for 20% of the containing data on concentrations of PCDD/Fs and Stribution, the primary source of PCDD/F-frated toxic equivalency quotiency and for 53% of total TEQ) may be related to a facility that performed smelting and refining of matas. Anclors appear to be responsible for about 20% of the total TEQ. The analysis revealed two additional secondary sources of PCDD/Fs to Newtown Creek sediment: the East River (3% of TEQ) and Combined Sewer Outfalls ([CSOB], 0.5% of TEQ). The East River was responsible for about 20% of the data matrix appears to increase the ability of the PMF analysis to identify both primary (Ancclors) and secondary (CSOS, East River) PCDD/F sources, but it is unclear whether it may overstate the fraction of PCDD/Fs arising from Ancclors.

#### General News

USING ADVECTIVE TRANSPORT PHENOMENA TO ACCOUNT FOR UNCERTAINTY OF CONDUCTIVITY IN MONITORING DESIGN de Lange, W.J. I Groundwater 63(3):319-325(2025)

Advective transport phenomena allow for the calculation of the longitudinal and vertical growth of a contaminant plume along the flow path using simple analytic expressions, based solely on the log conductivity variance and the horizontal and vertical characteristic lengths that describe the aquifer heterogeneity. In previous work, the calculated plume growth was verified in 12 large-scale experiments workwide. The method is used to investigate the relationship between uncertainty in the conductivity variation and the plume growth was verified in 12 large-scale experiments workwide. The method is used to investigate the relationship between uncertainty in the conductivity variation and the plume growth by calculating the spreading of water particles are spreading of water particles

## HOW DO NOVEL PFAS SORBENTS FIT INTO CURRENT ENGINEERING PARADIGM? Burkhardt, J., T.F. Speth, S. Gorzelnik, A.S. Gorzalski, O. Coronell, A.R. El-Khatlabi, and M. Ateia. I ACS ES&T Engineering 5(4):830-838(2025)

This article provides insights into potential advantages and challenges by exploring the current state of novel PFAS sorbents within the broader context of existing technologies. Novel sorbents bring promising benefits, including enhanced selectivity, rapid kinetics, and flexibility for different PFAS temstifies, particularly in challenging matrices such as wastewater. Despite their advantages, significant work remains to refine these materials for large-scale applications, including addressing scalability, cost-effectiveness, fouling resistance, and regulatory compliance with integrit and utilities and novels storted revelopers, this perspective aims to guide informed decisions that regulatory compliance with integrit and addressing that are interediated regulatory compliance with integrit and addressing that are interediated regulatory compliance with integrit and addressing that are interediated regulatory compliance with integrit and addressing that are interediated regulatory compliance with integrit and tradition.

## ADVANCING GROUNDWATER REMEDIATION: EFFICACY OF SLOW-RELEASE PERMANGANATE GELS (SRPG) IN TREATING CONTAMINANT PLUMES Egware, A.E. I Current Journal of Applied Science and Technology 44(2):124-132(2025)

Experimental and modeling studies were reviewed to assess the oxidation capacity, releace kinetics, and field applicability of SRPG to remediate groundwater. Literature from 2019 to 2024 was obtained from several databases, including Google Scholar, PubMed, Scopus, and Web of Science, focusing on the latest techniques and challenges in the field. Inclusion criteria ensured that the selected articles were peer-eviewed, discussing mechanisms, hydrogeologic applications, and contaminant mitigation involving SRPG. Experimental setup, numerical models, and field data were considered to assess performance and scalability for various uses of SRPG. The review identified five effective studies in reducing contaminant concentrations in groundwater. Key factors for mendation success were increased of user in tereview identified five effective studies in reducing contaminant concentrations in groundwater. Key factors for mendation success of SRPG. The review identified five effective studies in reducing contaminant concentrations in groundwater. Key factors for mendation success are increased of user in tereview identified five effective studies in reducing contaminant concentrations in groundwater. Key factors for mendation success of SRPG. The review identified five effective studies in reducing contaminant concentrations in groundwater. Key factors for mendation success of SRPG. The review identified five effective studies in reducing contaminant educing inflant contaminant reduction in Tele concentrations within six months with six months within six months of SRPG application na polic-stability of SRPG technology. Future studies are needed to ophinize get formulations with respect to their long-term environmental impacts and the ability to biodegrade under environmental conditions, contributing to globally sustainable water resource management. The province methy is province to the province to the province methy is pro

# RECENT ADVANCES ON DIOXIN AND FURAN (DIBENZOFURAN) BASED POLLUTANTS FROM ANALYTICAL, ENVIRONMENTAL, AND HEALTH PERSPECTIVES Kanan, S., F. Samara, L. Dronjak, A. Mahasneh, M. Moyet, K. Obeideen, and V. Gopal. Chemosphere 372:144120(2025)

hensive review highlights recent findings of dioxin and furan pollution. It focuses on major environmental and health aspects associated with exposure to dioxin and its derivatives by assessing the routes of exposure, toxicity, and action. VOSviewer was used to understand the research interest within the scientific community in the study of dioxins and furans. Various strategies are discussed, including remediation, extraction, and analysis methods, as well as required to improve compound filtration and mineralization to enhance the efficiency of environmental cleanup processes.

## WORKSHOP 05: ADVANCES IN APPLICATIONS, TECHNIQUES, AND INTERPRETATION IN THE FIELD OF ENVIRONMENTAL FORENSICS Philip, P. I 34th Annual International Conference on Soil, Water, Energy, and Air, 17-20 March, San Diego, CA, 195 slides, 2025

This workshop discusses the evolution of forensic fingerprinting techniques and their applications to environmental forensic problems as well as the integration of historical product information, site histories, and other information. The ultimate gala is to provide a comprehensive proteines as well as the integration of historical product information, site histories, and other information. The ultimate gala is to provide a comprehensive proteines as well as the integration of historical product information, site histories, and other information. The ultimate gala is to provide a comprehensive proteines expect or solid. Litter 25460/Prosecond Comprehensive proteines as well as the integration of historical product information. Site histories and other information. The ultimate gala is to provide a comprehensive proteines expect or solid. Litter 25460/Prosecond Comprehensive proteines as well as the integration of historical product information. Site histories and their applications the information of historical product information. The ultimate gala is to provide a comprehensive proteines expect or solid. Litter 25460/Prosecond Comprehensive proteines expect or solid. Litter 25460/Prosecond Comprehensive proteines as well as the integration of historical product information. The ultimate gala is to provide a comprehensive proteines expect or solid. Litter 25460/Prosecond Comprehensiv

The Technology Innovation News Survey welcomes your comments and suggestions, as well as information about errors for correction. Please contact Michael Adam of the U.S. EPA Office of Superfund Remediation and Technology Innovation at adam michael@epa.gov or (703) 603-9915 with any comments, suggestions, or corrections. Mention of non-EPA documents, presentations, or papers does not constitute a U.S. EPA endorsement of their contents, only an acknowledgment that they exist and may be relevant to the Technology Innovation News Survey audience.