### Entries for June 16-30, 2025

### Market/Commercialization Information

### - SOURCES SOUGHT: EPA REGION 4 START VI (SOL)

U.S. Environmental Protection Agency, Region 4 Contracting Office, Atlanta, GA Contract Opportunities on SAM.gov 68HE0P24R0007, 2025

This is a full and open competition under NAICS code 541620. EPA Region 4 requires a contractor to provide nationally consistent technical assistance services to EPA On-Scene Coordinators and other federal officials implementing EPA's responsibilities under the national response system for the Superfund Technical Assessment and Response Team (START) class of contracts. These services primarily support Region 4's Areas of Responsibility (AOR). Within the Region 4 AORs, certain locations have been established as out-post ed OSC (elites/zones. EPAS primary mobilization point is it faithant Regional Office, and the out-post cities/zones are Louisving, ITN, Raleigh, NC, and Tallahassee, FL. Other AAORs, attains the contractor is not required to have office locations at any of the outpost cities. Technical requirements include response, preparedness and prevention, assessment and inspection, technical support, data management, and training. Offers are due by 4:13 OPM EOT On September 1, 2005. <a href="https://sam.org/workspace/contraction/sam.org

# F -- PROJECT LABOR AGREEMENT (PLA) SURVEY FOR REMEDIAL ACTION SATOC AT THE WELSBACH SUPERFUND SITE (SNOTE) U.S. Army Corps of Engineers, Northwestern Division, Kansas City, MO contract Opportunities on SAM-gov W912DQ26RA002, 2025

The U.S Army Corps of Engineers (USACE), Kanasa City District (NWK) is soliciting comments from the construction community addressing the potential use of Project Labor Agreements (PLA) for large-scale construction projects located at the Welsbach/General Gas Mantle (GGM) Superfund site. This SATOC will have a capacity of \$95M. Remedial action activities will consist of environmental investigation, construction, preparation of appropriate documents, monitoring, and site restoration. Construction may include, but is not limited to the following: Large-scale construction may excavation, and handling of radiologically impracted soils; Preparation of environmental work plans and reports; Groundwater monitoring and field data collection; Collection, management, and treatment of water during excavation activities; Radiation air permit monitoring; Health physics, radiation safety and radiation training; Extensive community relations with property owners; Management and technical staffing of an on-site laboratory; and the use of the Multi-Agency Radiation Survey & Site Investigation Manual. A Project Labor Agreement is defined as a pre-hire collective bargaining agreement with one or more labor organizations that establishes the terms and conditions of a specific construction project and is an agreement described in 29 U.S.C. § 158(f). F. The public is invited to respond to the use of a PAI for this construction project utilizing the PLA Questionnaire attached to this notice. <a href="https://doi.org/10.1007/journal/">https://doi.org/10.1007/journal/</a> (All Pain Planck of PLA) (All Planck Pl

F -- MD-CHESAPEAKE BAY ESFO-LEAD SHOT SITE (SOL)
U.S. Department of the Interior, Fish and Wildlife Service, Construction A/E Team 2, Falls Church, VA Contract Opportunities on SAM, Gov 140FC25K0015, 2025

This is a total small business set-aside under NAICS code 562910. The U.S. Department of the Interior, Fish and Wildlife Service, requires a contractor to plan and complete soil removal and remediation at the Lead Shot Site within the Prime Hook National Wildlife Refuge in Milton, Delaware. Key activities include obtaining permits and utility clearances, completing a Health and Safety Plan, conducting environmental surveys (wetlands, trees, soil, groundwater, and surface water), decommissioning unneeded wells, and preparing the site. Additional steps involve identifying clean fill source water), decommissioning unneeded wells, and preparing the site. Additional steps involved identifying clean fill source water), developing a Contraminated Materials Management Plan, implementing the approved remedy (including Envirolelled® CS application), waste characterization and disposal approvals, invasive species prevention measures, and drafting a Long-Term Stewardship Plan outlining inture site restrictions and monitoring. The award will be a firm-fixed-price contract with a period of performance of 545 calendar days after receipt of the Notice to Proceed. Offers are due by 5:00 or do n August 21, 2025. https://decam.org/inspirate/fizas/abad/abad/542/2t/zithinsbad/wiew.

F.- HAZARDOUS SUBSTANCE EMERGENCY SPILL FEMEDIATION (COMBINE)
U.S. Department of the Air Force, Air Force Material Command, Air Force Life Cycle Management Center, Wright Patterson AFB, OH Contract Opportunities on SAHA,

This is a full and open competition under NAICS code 562910. The U.S. Department of the Air Force requires a contractor to provide timely response and remediation for hazardous substance emergency response and compliance-driven tasks that are beyond the capabilities of the 88th Air Base Wing Civil Engineer Environmental Management Branch at Wright-Paterson Air Force Base in Ohio. Emergency response and remediation services performed shall ensure compliance with all federal, state, can WPAFB laws and regulations. Response situations may include but are not limited to: Hazardous material containment/spill cleanup, PCB containment/spill cleanup and disposal, prosporation and disposal of hazardous and non-hazardous waste, and sampling and analysis. The contractor must provide a 24-hour point of contact who is available seven days a week, 355 days a year for emergency response calls or compliance-related work. The award will be a Blanket Purchase Order. Offers of the award will be a Blanket Purchase Order. Offers of the award will be a Blanket Purchase Order. Offers are due by 10:00 AM EDT on September 4, 2025. publics: //samp.awardous.publica/spill-fides/Sf5/saffs/sit/size/w

### Return to ton

### Cleanup News

CAN'T REMOVE ALL YOUR SOURCE MATERIAL? DOES IT MATTER?
Fischer, G. I DCHWS East 2025 Spring Symposium, 2-4 April, Philadelphia, PA, 15 slides, 2025

This presentation reviews the groundwater plumes from two manufactured gas plants (MGP) pre-and post remediation. Both sites were located in similar settings, with similar underlying lithology and hydrology, degree of MGP-related impact, and offsite groundwater plumes. Both sites were also located in the New Jersey Principles of the Section of the S

## CASE STUDY OF A SUCCESSFUL BROWNFIELDS REMEDIATION PROJECT AT A FORMER MANUFACTURING FACILITY Wong, C. I DCHWS East 2025 Spring Symposium, 2-4 April, Philadelphia, PA, 15 slides, 2025

An Industrial Side Recovery Act (SRR) equivalent Preliminary Assessment/Sic Investigation (PASI) was completed for Lots 6 (Neely property) and 7 at a former manufacturing facility that assembled trailers to transport construction equipment. Based on the results of the PASI, 22 areas of environmental concern (ACCs) were identified across the property, including TCE at the Neely property. The objective was to remediate the ACOs effectively to facilitate the sale of the property and redevelopment as a Brownfields project. Various phases of remediate advites were conducted on the Neely property, including excavation and disposal of drums and contaminated soil. Reduction are remediated by which indigenous becaute facing and excitive throughout the dissolved plume. An extensive groundwater monitoring program has been conducted as part of the approved natural attenuation remedy for the past 25 years. Due to natural attenuation and source removal, the extent of the contaminant plume has decreased significantly, in addition to the magnitude of concentrations in the former source area. In a proactive move to attempt to enhance a factor of magnitude, and overall decreasing concentration trends. Following a Restricted Use Response Action Outcome issued by NJDEP, the site was successfully developed into a warehouse logistics facility.

https://maid.active.com/pii/sites/s

## BUGS AND BUBBLES: AN IN-SITU BIOREMEDIATION LEARNING EXPERIENCE Kapson, D. I DCHWS East 2025 Spring Symposium, 2-4 April, Philadelphia, PA, 15 slides, 2025

A historic tree farm turned residential property adjoining a private country club was impacted by releases from a 1,000-gallon heating oil UST and a 290-gallon gasoline UST. The areas of concern occurred near Moggy Brook, a protected stream with storied significance in relation to glacial geology in the Watchung Mountain region. Dissolved concentrations of primarily MTBE (maximum concentrations of 1,700 ug/L) and benzene (maximum concentrations of 140 ug/L) occurred in an overburden plume of -5,000 ft 2, ranging in depth from -5 ft to -40 ft bgs. The objective of the project was to achieve unrestricted residential use and return groundwater quality to the condition prior to the benzenes from the USTs and remediate the site as quickly and as efficiently as possibles. Sonic "drilling methods were used to install monitoring in install monitoring in install monitoring in install monitoring in the control of prior to the control of prior to the control of the prior to the control of the prior that is controlled by an advised part of the prior to the control of the prior to the control of prior to the control of the prior to the control of the prior to the prior

## Demonstrations / Feasibility Studies

## LARGE-SCALE FIELD EXPERIMENTS ON ENHANCING IN-SITU BURNING WITH FIRE WHIRLS Cui, W., J. Dowling, M. Hajilou, M. Huffman, B. Pawar, J. Aurell, Q. Wang, E. Oran, K. Stone, and M. Gollner. I Fuel 403:136093(2025)

A study addressed a critical research gap by conducting one of the largest controlled fire whirl experiments to date, focusing on enhancing in situ burning for remediation of oil spills. Fire whirls were successfully generated within a 5-meter-tall three-wall structure under the influence of various wind conditions using a 1.5-meter diameter crude oil pool with 15 mm and 40 mm sick thicknesses on an open water surface. Measurements of flame geometry, flow velocity, temperature profiles, heat flux, mass consumption, and emissions were compared to pool expensive profiles. The surface profiles is the surface of the surface profiles and the surface profiles of the surface profiles that fire whiris implified before the first with surface profiles. The study discusses the potential interactive effects of ambient conditions, configuration sand mitigate detrimental emissions, thereby enhancing the effect of surface profiles configurations and mitigate detrimental emissions, thereby enhancing the effect of surface profiles configurations and mitigate detrimental emissions, thereby enhancing the effect of surface profiles configurations and mitigate detrimental emissions, thereby enhancing the effect of surface profiles of surface profiles of the surface profiles of the surface profiles of the surface profiles profiles of the surface profiles profiles of the surface profiles p

## BOREHOLE GEOPHYSICAL TIME-SERIES LOGGING TO MONITOR PASSIVE ISCO TREATMENT OF RESIDUAL CHLORINATED-ETHENES IN A CONFINING BED, NAS PENSACOLA, FLORIDA Harte, P.T., M.A. Singletary, and J.E. Landmeyer. I Hydrology 12:155(2025)

A passive ISCO (P-ISCO) experiment using potassium permanganate cylinders emplaced in boreholes was conducted at Naval Air Station Pensacola. Chlorinated ethenes are found primarily at the base of a shallow sandy aquifer in contact with an underlying silty-clay confired bed. Results of the time-series borehole logging collected between 2011 and 2022 in four monitoring wells were used to track oxidant delivery. The electromagnetic (EM)-induction logs from the monitoring wells showed an increase in EM response a tritier of the four wells, possibly from the formation of manganese precipitates coating sediments. Coupling time-series logging and well-chemistry data allowed for an improved assessment of passive ISCO treatment effectiveness. This article is Open Access a flutters://www.mdpi.com/2306-5338/12/6/155

# FIELD TEST OF A BIOELECTROCHEMICAL MEMBRANE-LESS REACTOR FOR CHLORINATED ALIPHATIC HYDROCARBON AND NITRATE REMOVAL FROM A CONTAMINATED GROUNDWATER Sassetto, G., M. Presutti, A. Lai, G. Simonetti, L. Lorini, M.P. Papini, and M. Zeppilli. ChemPlusChem (Published 20 May 2025 before publication)

A membrane-less reactor was used to explore bioelectrochemical remediation of groundwater contaminated with chlorinated aliphatic hydrocarbons (CAHs) and nitrates. A column-type bioelectrochemical reactor was used to stimulate in situ degradation of contaminants through the supply of electrons by a graphite granules biocarbode. After preliminary lab characterization and operation with a synthetic feeding solution, a field test was conducted at a contaminated site, where the reactor demonstrated effective degradation of CAHs and inorganic anions. The cathodic potential promoted return described species. Nitrate reductions, upliphate reduction and methanogenesis occurred simultaneously, influencing the overall coulombic efficiency of the process. Using real groundwater compared to the synthetic medium significantly decreased the coulombic efficiency of reductive declinorination, decreasing from 2.43% to 0.01%. Concentration profiles along the bioelectrochemical reactor allowed for a deeper description of the reductive declinorination and vacidation mechanisms. Scaling up the technology presents several challenges, including the optimization of coulombic efficiency and the management of competing microbial metabolisms. The study provides a valuable contribution towards advancing bioelectrochemical technologies to remediate complex contaminated sites.

## A NON-TARGET EVALUATION OF DRINKING WATER CONTAMINANTS IN PILOT SCALE ACTIVATED CARBON AND ANION EXCHANGE RESIN TREATMENTS Tisler, S., N.S. Mrkajic, L.M. Reinhardt, C.M. Jensen, L. Clausen, A.H. Thomsen, H.-J. Albrechtsen, and J.H. Christensen. I Water Research 271:122871(2025)

A study evaluated the effectiveness of five types of GAC and one anion exchange resin in a pilot test to treat groundwater for drinking water production, specifically targeting persistent compounds like PFAS. Using liquid chromatography and supercritical fluid chromatography coupled with high-resolution mass spectrometry, hundreds of features (i.e., peak at specific mass and retention time) were detected in the groundwater by non-target analysis. After freating <5,200 bed volumes (BV), GAC filter materials showed <6% breakthrough for all features, which decreasing efficiency down to 79% breakthrough after 7 months (68,000 treated 69% for gAGC). Using resin as a lag first GAC did not improve the removal of compounds detected in negative electrospay ionization mode was enhanced, indicating higher selectivity of resin for acidic compounds detected in negative electrospay; ourzation mode was enhanced, indicating higher selectivity of resin for acidic compounds with PFAS. FFBA and PFFeA broke through completely for all GAC and the resin material except the progressive progre

PERFORMANCE TESTING OF A PFAS METHODS FOR SOIL GAS, SEWER GAS, AND INDOOR AIR Lutes, C., H. Hayes, K. Bronstein, B. Schumacher, J. Zimmerman and A. Williams. 34th Annual International Conference on Soil, Water, Energy, and Air, 17-20 March, San Diego, CA, 28 slides, 2025

A method for the analysis of a set of fluorotelomer alcohols and perfluoroctanesulfonamides was developed and validated to study the potential for PFAS vapor intrusion. The method includes the active collection of samples in multi-bed sorbent tubes followed by analysis using thermal desorption ags chromatography-tandem mass spectrometry. Method validation steps included the evaluation of desorption efficiency, second source verification, storage stability, and method detection intridection of the perfluoroctanesulfonamides. Method applications to perfluoroctanesulfonamides and perfluoroctanesulfonamides. Method applications to perfluoroctanesulfonamides. Method applications to perfluoroctanesulfonamides. Method applications for early application fever also evaluated, revealing some potential for artifact formation during thermal desorption. The method's performance was evaluated by sampling large volumes of indoor air with and without added humidification (up to 288 L). Results revealed potential recovery concerns at high humidity. Testing included similar tubes, and the perfluoroctanesular tubes. The method was also extend to the effect of the perfluoroctanesular tubes. The method was also extend to the perfluoroctanesular tubes, and non-target compounts, providing information on field application fleasibility and potential interferences from non-target compounts. Providing information on field application fleasibility and potential interferences from non-target compounts. Providing information on field supplication fleasibility and potential interferences from non-target compounts. Providing information on field application fleasibility and potential interferences from non-target compounts. Providing information on field application fleasibility and potential interferences from non-target compounts. Providing information on field application fleasibility and potential interferences from non-target compounts. Providing information on field application fleasibility and potential interferences from non-target co

# MODELING PFAS SORPTION IN SOILS USING MACHINE LEARNING Fabregat-Palau, J., A. Ershadi, M. Finkel, A. Rigol, M. Vidal, and P. Grathwohl. Environmental Science & Technology 59(15):7678-7687(2025)

This study introduces PFASorptionML, a novel machine learning tool developed to predict solid-liquid distribution coefficients (Kd) for PFAS in soil. Leveraging a data set of 1,274 K<sub>d</sub> entries for PFAS in soils and sediments, including compounds such as trifluoroacetate, cationic, and zwitterionic PFAS, and neutral fluorotelomer alcohols, the model incorporates PFAS-specific properties such as molecular weight, hydrophobicity, and op K<sub>B</sub>, and soil characteristics like ph, texture, organic carbon content, and cation exchange capacity. Sensitivity analysis revealed that molecular weight, hydrophobicity, and organic carbon content are the most significant factors influencing sorption behavior, while charge density and mineral soil length and functional group variability significantly influence K<sub>d</sub> with longer chain lengths and higher hydrophobicity positively correlating with K<sub>d</sub> By integrating location-specific soil repository data, the model enables the generation of spatial K<sub>d</sub> maps for selected PFAS species. These capabilities are implemented in the online platform PFASorptionML, providing researchers and practitioners with a valuable resource for conducting environmental risk assessments of PFAS

# NEW INSIGHTS INTO THE REDUCTIVE DESTRUCTION OF PER- AND POLYFLUOROALKYL SUBSTANCES IN HYDRATED ELECTRON-BASED SYSTEMS Wang, X, L. Qiu, Z. Chen, H. Chen, J. Wang, Y. Zhang, Y. Xu, D. Kong, M. Zhang, and C. Gu. Environmental Science & Technology Sy1(1):5786-5795(2020).

A study investigated the PFAS transformation processes in different hydrated electron-based systems, i.e., UV/Na<sub>2</sub>SO<sub>3</sub>, UV/indole, and UV/3-indoleacetic acid (IAA), using different PFCAs as model compounds. Monitoring the production and decay of hydrated electrons, molecular interactions, and the generated intermediates systematically revealed the structure-property-performance mechanism of different systems. In the UV/ Na<sub>2</sub>SO<sub>3</sub> system, the disordered attack of hydrated electrons induced rapid destruction of either long or short-chain PFCA. However, the lower hydrated electron in the UV/indole system, the interaction between indole and PFCA promoted the directed transfer of hydrated electrons, resulting in a significantly higher destruction efficiency for long-chain PFCA than for short-chain PFCA. However, the self-quenching of hydrated electrons in the UV/IAA system led to the ineffective decomposition of all PFCA. This study provides mechanistic insights into the hydrated electron-induced PFAS composition processes, which would expand the designing of strategies for improving PFAS destruction efficiency.

## TEN YEARS OF PFOS AND PFOA HUMAN BIOMONITORING IN ITALY: EXPOSURE LEVELS AND DETERMINANTS OF EXPOSURE Incelido, A.M., A. Abballe, E. Dellatte, F. Ferri, N. Jacovella, V. Marra, S. Valentini, and E. De Felio, I Chemosphere 376:144297(2025)

Concentrations of PFOA and PFOS in human serum were studied in this paper. Serum samples were collected in Italy between 2007 and 2017 along with information on the characteristics and lifestyle of the study participants. Univariate and multivariate statistical analyses we applied to the resulting database to identify major determinants of PFAS exposure over time and in different exposure scenarios. PFOA concentrations ranged over four orders of magnitude, with a median value of 2.4 ng/mL. Exposure scenarios and serve were identified as the major factors in determinants. In subjects with a background level of PFAS exposure, other relevance in determinants identified were age, geographical area, degi urbanization, level of education, and skill level in occupation. A declining time-trend was observed for PFOA, but not for PFOS. Results can support defining measures to limit future human exposure to these persistent contaminants.

# MICROFLUIDIC STUDY ON GREEN REMEDIATION OF NONAQUEOUS PHASE LIQUID (NAPL) CONTAMINATION IN HETEROGENEOUS GROUNDWATER SYSTEMS USING DIHYDROLEVOCLUCOSENONE (CYRENE) Wang, X., H. Zhao, T. Zheng, Y. Li, X. Wang, Q. Wang, T. Long, C. Tsakiroglou, and J. Luo. Environmental Science & Technology 59(13):8580-6652 (2025)

A study explored the use of the bioderived green solvent dihydrolevoclucosenone (Cyrene) as an alternative to traditional remediating agents for NAPL remediation. Microfluidic experiments and accompanying numerical modeling demonstrated that Cyrene enhances the dissolution and mobilization of NAPL contaminants, particularly in low-permeability zones, achieving residual NAPL reductions of up to 80% compared with water and Tween 80 solutions. These findings underscore Cyrene's dual environmental benefits as an eco-friendly solvent for both treating solid waste and for NAPL reductions of up to 80% compared with water and Tween 80 solutions. These findings underscore Cyrene's dual environmental benefits as an eco-friendly solvent for both treating solid waste and for NAPL reductions of up to 80% compared with water and Tween 80 solutions. These findings underscore cyrenes are considered to a solution of the reduction of up to 80% compared with water and Tween 80 solutions. These findings underscore cyrenes are considered to 80% compared with water and Tween 80 solutions.

# FEASIBILITY EVALUATION OF A BLENDED COVER WITH ACTIVATED CARBON FOR IN-SITU STABILIZATION OF DDT IN SEDIMENT Cho, Y.-M., B.J. Pauken, A.E. Tovkach, O.B. Fringer, S.G. Monismith, and R.G. Luthy. Journal of Contaminant hydrology 267:10445 (2024)

A feasibility study for an activated carbon (AC)-blended cover was conducted at the Lauritzen Channel of the United Heckathorn Superfund site, which was contaminated with dichlorodiphenyltrichloroethane, its metabolites (DDx), and dieldrin. Vessel activities causing sediment disturbance were identified as key factors for remedy selection. A blended cover with medium-size gravel (D50 = 15 mm, D90 = 19 mm) with 4% granular AC by weight was designed to withstand varied hydrodynamic conditions and AC stability was tested in a current flume. Fulume erosion studies showed minimal AC loss (1-2 % of total AC) under shear forces 69 -31 Pa, equivalent to or exceeding the estimated worst-case erosional conditions in the channel induced by a hypothetical, stationary tugboat propelling at high power thrust. The treatability performance of the engineered blended cover design was evaluated through mesocosm studies using site sediment and various cover options. Post-treatment assessments on days 5 and 145 showed rapid reductions in freely dissolved (C fpcg) Dar and feldrin in the blended cover layers and surface water. For example, by day 145, Cfpce Dbx was reduced by over 98%, meeting US EPA remedial goals for the site. It is concluded that the combination of both stability and performance testing demonstrates that an engineered blended cover-AC design would be a feasible remedial option at the site, and that this testing approach can be applied to evaluate in the other sedement cleanup activities.

### General News

DESTRUCTION OF PFAS IN SOILS: TECHNOLOGY DEMONSTRATIONS AT JOINT BASE ELMENDORF-RICHARDSON, ANCHORAGE, ALASKA Zsolt, L., Crownover, E., and L. Kinsman. SERDP & ESTCP Webinar Series, June 2025

This SERDP and ESTCP webinar focused on three demonstrations of PFAS treatment technologies for impacted soil at Joint Base Elmendorf-Richardson in Anchorage, Alaska, funded in partnership with the Defense Innovation Unit. Investigators discussed demonstration results from thermal conduction heating, smoldering combustion, and electric induction, followed by thermal plasma oxidation, offering insights into the performance and scalability of each technology.

SYSTEMATIC EVIDENCE MAP FOR THE PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS) UNIVERSE
Shirke, A., E. Radke, R. Jones, B. Allen, C. Lin, A. Ross, N. Vetter, C. Lemeris, P. Hartmann, S. Eftim, A. Varghese, R. Blain, H. Hubbard, A. Williams, K. Thayer, and L. Carlson.
Environmental Health Perspectives (Published online 22 May 2025 before print)

Systematic evidence map (SEM) methods were used to summarize the available epidemiological and mammalian bioassay evidence for ~14,735 chemicals identified as PFAS by EPA's Center for Computational Toxicology and Exposure. This work is a continuation of previous 2022 <a href="https://ebn.niabs.nih.gov/doi/ndt/11.1280/EPID10343">https://ebn.niabs.nih.gov/doi/ndt/11.1280/EPID10343</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndt/11.1280/EPID10343">https://ebn.niabs.nih.gov/doi/ndt/11.1280/EPID10343</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndpt/11.1280/EPID10343">https://ebn.niabs.nih.gov/doi/ndt/11.1280/EPID10343</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndpt/11.1280/EPID103433</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndpt/11.1280/EPID103433</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndpt/11.1280/EPID103433</a> and 2024 <a href="https://ebn.niabs.nih.gov/doi/ndpt/11.1280/EPID103433</a> and a searches from peer-reviewed and gray literature sources conducted to identify, screen, and inventory mammalian bioassay and epidemiological literature inventory visuals for each studies informing chemical box/doi/ndbt/11.1280/EPID10343</a> and epidemiological literature inventory visuals for each studies informing chemical box/doi/ndbt/11.1280/EPID10343</a> and epidemiological evidence assessed opidemiological studies met PECO criteria. The mammalian bioassay and epidemiological evidence assessed 99 and 30 individual PFAS, respectively (n = 18 PFAS). The epidemiological evidence assessed 19 health systems, and the mammalian bioassay or epidemiological data available. The majority of PFAS lack publicly available information about the potential human health effects of exposure to these chemicals.

\*\*Accepted manuscript:\*\*
\*\*Interview of the properties of the potential human health effects of exposure to these chemicals.

\*\*Accepted manuscript:\*\*
\*\*Interview of the properties of the potential human health effects of exposure to these chemicals.

\*\*Accepted manuscript:\*\*
\*\*Interview

1.2-Dichloroethane is a manmade compound used to produce viryl chloride. Due to its toxicity, it generally has relatively low screening levels based on acceptable concentrations in indoor air, soil vapor, and groundwater. If a 1.2-dichloroethane release occurs, the compound not be detected in the subsurface and could be a risk driver for vapor intrusion (VI). Based on studies presented in this paper, however, this compound has become more frequently detected in indoor air and is likely attributed to sources in the buildings being sampled. Current is knowledged in door air background levels of 1.2-dichloroethane and potential sources is summarized in this article. Recent left data demonstrate that the typical indoor air concentrations for this compound are higher than those reported in the past and may be connected to a larger presence of internationally shipped materials in the current indoor environment than in previous decades. This is an important consideration when evaluating buildings for VI, as background indoor air concentrations of 1,2-dichloroethane may confound the VI pathway assessment. Internationally shipped materials in the current indoor environment than in previous decades. This is an important consideration when evaluating buildings for VI, as background indoor air concentrations of 1,2-dichloroethane may confound the VI pathway assessment. Internationally shipped materials in the current indoor environment than in previous decades. This is an important consideration when evaluating buildings for VI, as background indoor air concentrations of 1,2-dichloroethane may confound the VI pathway assessment.

## WORKSHOP 07: ADVANCES IN APPLICATIONS, TECHNIQUES, AND INTERPRETATIONS IN THE FIELD OF ENVIRONMENTAL FORENSICS Philip, P. I AEHS Foundation 40th Annual International Conference on Soils, Sediments, Water and Energy 21-24 October, Amherst, MA, 19 slides, 2024

This workshop discusses the evolution of environmental forensics techniques and their application to different problems. In addition, the integration of historical product information, site histories, and other potentially useful information is also covered. A good understanding of analytical chemistry and what happens to produce after release into the environment is essential, since the fingerprints of the spliet product may be quite different from the original product in the storage tank. An understanding of the origin and manufacturing processes involved in environments are manufactured to the environment is essential, since the fingerprints of the spliet product may be quite different from the original product in the storage tank. An understanding of the origin and manufacturing processes involved in environments as manufactured to the spliet product may be quite environmental samples is understands by age schromotography (CS, I) followed by more detailed analyses using gas chromotomenty (GC-MS) and possibly MSMS, along with 2D GC. Stable isotope composition of individual contaminants, including C, H, N, CI, bittos://ds.anazonaws.com/anazonavs/com/anazonav

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 <a href="mailto:adam.michael@epa.gou">adam.michael@epa.gou</a> or (703) 603-9915 with any comments, suggestions, or corrections.

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