

2022 Americas Site Solutions Technology Transfer Conference

Title: Innovative Tools for PFAS Site Assessment and Client Outreach

Authors' Names: Gina Daniel, Rebecca Siebenaler

Presenter's Name: Gina Daniel

Key Topic: Emerging Contaminants

PDP Manager/Managing Principal's Name: Kim Groff

Client Name: N/A

Project Name: N/A

Project Location: N/A

Primary Ramboll Project Staff (Office): Rebecca Siebenaler, Mary Cottingham (Princeton, New Jersey)

ABSTRACT

Background/Objectives:

Per- and polyfluoroalkyl substances (PFAS) are a hot topic and an increasingly important class of contaminants of concern in the fields of site investigation, risk assessment, and site remediation. As regulations advance beyond PFOA and PFOS at the federal and state levels in more environmental matrices, a greater number of potential liabilities and types of contamination may be identified. To be responsive to this evolving landscape, environmental consultants need to have the latest science, regulatory information, and network of experts at their fingertips.

Approach/Activities:

This talk will provide an introduction to the tools and resources available to support your site work within the Site Solutions network, highlighting the types of information on PFAS that are being compiled and maintained by the PFAS SME team, as well as points of contact for questions. Particular focus will be on displaying two innovative PowerBI dashboards: 1) the PFAS in drinking water across the US data dashboard, and 2) the PFAS chemical database PowerBI dashboard which displays physical/chemical properties, regulatory values, and toxicity information by chemical. Additional sources of information, including the PFAS publications reference library and Emerging Contaminants Sharepoint site may be discussed, time permitting.

Results/Lessons Learned:

Through the compilation of PFAS regulatory information as part of the PFAS SME team, we discovered that there is a need to rapidly access/view PFAS regulatory information by state and US-wide to adequately respond to client questions. This capability should be available to all within Ramboll, not just within the PFAS SME team, and can be used to help guide site investigation and risk assessment efforts. Accordingly, the PowerBI PFAS chemical information dashboard was built.

Aspect of Work that Relates to Sustainability:

By directly linking the PFAS chemical information dashboard to an underlying SQL database, the dashboard automatically updates when new regulatory, chemical information, or toxicity data are loaded to the base database. This eliminates the need to make updates in multiple locations, streamlining tracking efforts and reducing redundant work. Practitioners across Ramboll can access the dashboard as a central repository of information, reducing the chance of using conflicting phys/chem/toxicity information in fate and transport or risk assessment evaluations. All of these improvements enhance the sustainability of PFAS site investigation and remediation within Site Solutions, which in turn leads to better informed decision making for protecting drinking water sources and other natural resources.