

PCB Symposium: Source Identification & Tracking

June 15, 2023

Resources Shared

Maryland

- [Document library](#) for the Anacostia River Sediment Project, which includes:
 - [2022 USFWS Forage fish report and appendices](#)
 - [UMBC reports on passive samplers](#)
 - [Tributary Study for the USGS SIR 2016 report](#)
- MDE Guidance to MS4s in a PCB TMDL with controllable waste load allocations requires track down of sources. Includes a stepwise method.
 - [Maryland](#) and select *PCB TMDL guidance*
 - [Anacostia River](#)

San Francisco Bay

- [San Leandro Bay Conceptual Model Report](#)
- [Steinberger Slough/Redwood Creek Conceptual Model Report](#)
- [Emeryville Crescent Conceptual Model Report](#)
- [PCBs in Shiner Surfperch in Priority Margin Areas](#)
- [Contaminant Concentrations in Sport Fish from San Francisco Bay: 2019](#)
- Report on the stormwater reconnaissance: [Pollutants of Concern Reconnaissance Monitoring Progress Report, Water Years 2015 -2020](#)
- Report on the congener/Aroclor analysis: [Small Tributaries Pollutants of Concern Reconnaissance Monitoring: Pilot Evaluation of Source Areas Using PCB Congener Data](#)

PCB Fingerprinting at Newton Creek Superfund Site

- [PMF for dummies video](#)
- [Spreadsheet from Boon](#), that categorizes all 209 congeners by metabolizability
- Boon, Jan P., and Frans Eijgenraam. "The possible role of metabolism in determining patterns of PCB congeners in species from the Dutch Wadden Sea." *Marine Environmental Research* 24.1-4 (1988): 3-8. Available at: <https://www.sciencedirect.com/science/article/pii/0141113688902449>.
- Overview of the [Daubert standard](#)

Discussion

PCB sniffing dogs and inspectors

- The University of Washington Conservation Canines and Seattle Public Utilities piloted using detection dogs to trace PCB sources. Email Michael Jeffers (Jeffers, Michael Michael.Jeffers@seattle.gov) and the university (cefs@uw.edu) to learn more
 - Overview of University of Washington [Conservation Canines](#)
 - [Short overview video](#) from the Earthshot prize
 - [Most recent pilot study report](#) and [proposed standard operating procedures](#)

- [Original pilot study](#) from 2017, which showed that both detection dogs and inspectors can learn to recognize PCB odors
- [Video](#) from Julianne Ubigau about testing dogs for PCB recognition
- Feel free to reach out to Brandee Era-Miller at the Washington State Department of Ecology (bera461@ecy.wa.gov) to learn more

Other

- Washington State Department of Ecology [report](#) and [training](#) on Tuesday June 27, 2023 on how to find and address PCBs in building materials
- King County [study](#) looking at silicone tubing effects on PCB congener concentrations from sampling in stream water
- [New PCB requirements under consideration](#) for Washington 2024 stormwater general permits
- Weitekamp, Chelsea A et al. "A state-of-the-science review of polychlorinated biphenyl exposures at background levels: relative contributions of exposure routes." *The Science of the total environment* vol. 776 (2021): 145912. doi:10.1016/j.scitotenv.2021.145912
- The stormwater programs in Bay Area have developed a protocol for screening old industrial areas for PCBs source areas. It involves a combination of looking at historical use of parcels to screen for those where PCBs were likely used, analyzing available data, right-of-way surveys using google earth street view, etc. Feel free to reach out to Richard (Richard.looker@waterboards.ca.gov) for more details