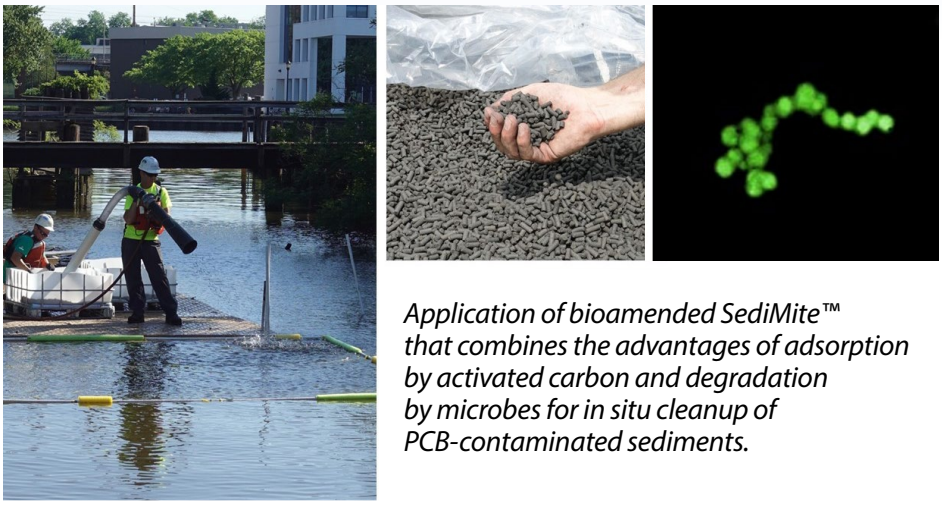
Grant Information: Institution, Principal Investigator(s), Contact Information, Grant Number	**RemBac Environmental LLC** **Project:** Development of an Innovative Approach for In Situ Treatment of PCB Impacted Sediments by Microbial Bioremediation **Project Leader**: **Craig Bennett Amos**, **Upal Ghosh**, **Kevin Sowers** Contact: ben@sedimite.com **Funding Period:** 2023-2025 R44ES032365
Technology	The proposed research will advance toward commercialization a novel in situ bioremediation technology that employs microbes and activated carbon to treat PCB impacted sediments.
Innovation	Current methods for treating PCB-contaminated sediments are expensive, energy-intensive, and disruptive to the ecosystem. Sustainable, minimally invasive, and relatively low-cost technology is critically needed to help reduce the vast inventory of PCB-contaminated sediments. Our innovative technology meets this need by employing naturally occurring PCB degrading microbes combined with activated carbon pellets as a delivery system for in situ sequestration and degradation of PCBs in sediments.
Contaminant and Media	We are targeting polychlorinated biphenyls (PCBs) in intertidal sediments.
Expansion Potential	The sensor has been evaluated using PFAS spiked synthetic wastewater samples, but has not validated with real world samples yet.
Sites/Samples	We proposed testing the technology at the New Bedford Harbor Superfund site located in Fairhaven, Massachusetts.
Technology Readiness Level	TRL 6 — Technology demonstrated in relevant environment (Industrially relevant environment in the case of key enabling technologies)
Update of Progress	The project was recently funded, and we are in the early stages of developing the work plan and seeking approvals from site stakeholders.



Application of bioamended SediMite™ that combines the advantages of adsorption by activated carbon and degradation by microbes for in situ cleanup of PCB-contaminated sediments.