Range of Biodegradable Contaminants by Molecular Biological Tool

Microbial Insights, Inc. has analyzed over 150,000 samples from sites contaminated with chlorinated solvents, petroleum hydrocarbons, emerging contaminants, and more. Contact us today with your contaminant of concern, and we will guide you through which analyses will provide the data you need to meet your remediation goals.

Contaminant of Concern	Monitored Natural Attenuation (MNA)			Aerobic Bioremediation			Anaerobic Bioremediation[2]			Colloidal Activated Carbon	In Situ Chemical Oxidation[4]		In Situ Thermal Remediation[4]
	QuantArray® or CENSUS® qPCR	SIP	In Situ Microcosm	QuantArray® or CENSUS® qPCR	SIP	In Situ Microcosm	QuantArray® or CENSUS® qPCR	SIP	In Situ Microcosm	QuantArray® or CENSUS® qPCR	QuantArray® or CENSUS® qPCR	SIP	QuantArray® or CENSUS® qPCR
BTEX													
Benzene	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Toluene	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ethylbenzene	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Xylenes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Trimethylbenzene	✓	✓[1]		✓	✓[1]			✓[1]		✓	✓	✓[1]	✓
n-Alkanes	✓	✓[1]		✓	✓[1]		✓	✓[1]		✓	✓	✓[1]	✓
Fuel Oxygenates													
Methyl tert-butyl ether (MTBE)	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
Tert-butyl alcohol (TBA)	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓
Polycyclic Aromatic Hydrocarbons (PAHs)													
Naphthalene	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Acenaphthylene	✓			✓						✓	✓		✓
Anthracene	✓			✓						✓	✓		✓
Benzo(a)pyrene	✓			✓						✓	✓		✓
Fluorene	✓			✓						✓	✓		✓
Phenanthrene	✓			✓						✓	✓		✓
Pyrene	✓			✓						✓	✓		✓

For more information on MBTs or additional contaminants, please reach out!

[1] Stable isotope probing (SIP) studies can be conducted with this compound, but synthesis of the 13C-labeled compound may be cost prohibitive

[2] Enhanced anaerobic bioremediation of BTEX and other petroleum hydrocarbons by addition of alternative electron acceptors such as nitrate or sulfate.

[3] Enhanced anaerobic bioremediation of chlorinated solvents by addition of electron donor products such as emulsified vegetable oil (biostimulation) or addition of a bioaugmentation culture.

[4] For assessment of MNA or bioremediation as a follow-up treatment after ISCO or ISTR

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