Range of **Treatable Contaminants Guide**

REGENESIS®

Range of Treatable Contaminants

REGENESIS products have been used to effectively treat a broad range of groundwater contaminants from petroleum hydrocarbons, to chlorinated solvents, pesticides, and metals. Contact us to discuss the treatability of your contaminant of concern and site details so that we can recommend the most effective REGENESIS solution.

✔ Contaminant treatable with REGENESIS Products

	LAC		ISCO			Aerobic Bio	Anaerobic Bio				ISCR	
Range of Treatable Contaminants	PlumeStop®	PetroFix®	RegenOx®	PetroCleanze	PersulfOx®	ORC® Advanced	3DME®	HRC®	HRC-X®	BDI® Plus	CRS®	S-MicroZVI™
BTEX												
Benzene	✔	✔	✔	✔	✔	✔						
Toluene	✔	✔	✔	✔	✔	✔						
Ethylbenzene	✔	✔	✔	✔	✔	✔						
Xylene	✔	✔	✔	✔	✔	✔						
Petroleum Hydrocarbons												
Gasoline Range Organics (GRO) (C_6-$C_{10\text{-}12}$)	✔	✔	✔	✔	✔	✔						
Diesel Range Organics (DRO) ($C_{8\text{-}12}$-$C_{24\text{-}26}$)	✔	✔	✔	✔	✔	✔						
Oil Range Organics (ORO) ($C_{22\text{-}32}$)	✔	✔	✔	✔	✔	✔						
Creosote (coal tar)	✔	✔	✔	✔	✔	✔						
Oxygenates												
Methyl tert-butyl ether (MTBE)	✔	✔	✔	✔	✔	✔						
Tert-butyl alcohol (TBA)			✔	✔	✔	✔						
Chlorinated Solvents												
Tetrachloroethylene (PCE)	✔		✔	✔	✔		✔	✔	✔	✔	✔	✔
Trichloroethene (TCE)	✔		✔	✔	✔		✔	✔	✔	✔	✔	✔
Dichloroethene (DCE)	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Vinyl chloride (VC)	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Tetrachloroethane	✔		✔	✔	✔		✔	✔	✔	✔	✔	✔
Trichloroethane (TCA)	✔		✔	✔	✔		✔	✔	✔	✔	✔	✔
Dichloroethane (DCA)	✔		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Carbon tetrachloride	✔		✔	✔	✔		✔	✔	✔		✔	✔
Chloroethane	✔		✔	✔	✔	✔	✔	✔	✔		✔	✔
Chloroform	✔		✔	✔	✔		✔	✔	✔		✔	✔
Chloromethane	✔		✔	✔	✔		✔	✔	✔		✔	✔
Chlorotoluene	✔		✔	✔	✔	✔	✔	✔	✔		✔	✔
Methylene chloride	✔		✔	✔	✔		✔	✔	✔		✔	✔
Dichloropropane	✔		✔	✔	✔		✔	✔	✔		✔	✔
Dichloropropene	✔		✔	✔	✔		✔	✔	✔		✔	✔
Hexachlorobutadiene	✔		✔	✔	✔		✔	✔	✔		✔	✔
Trichloropropane	✔		✔	✔	✔		✔	✔	✔		✔	✔
Bis(2-chloroethyl)ether	✔		✔	✔	✔		✔	✔	✔		✔	✔
Bis(2-chloroethoxy)methane	✔		✔	✔	✔		✔	✔	✔		✔	✔
PAHs												
Acenaphthene	✔	✔	✔	✔	✔	✔						
Acenaphthylene	✔	✔	✔	✔	✔	✔						
Anthracene	✔	✔	✔	✔	✔	✔						
Benzo(a)anthracene	✔	✔	✔	✔	✔	✔						
Benzo(a)pyrene	✔	✔	✔	✔	✔	✔						
Benzo(b)fluoranthene	✔	✔	✔	✔	✔	✔						
Benzo(ghi)perylene	✔	✔	✔	✔	✔	✔						
Chrysene	✔	✔	✔	✔	✔	✔						
Dibenzo(a,h)anthracene	✔	✔	✔	✔	✔	✔						
Fluorene	✔	✔	✔	✔	✔	✔						
Naphthalene	✔	✔	✔	✔	✔	✔						
Phenathrene	✔	✔	✔	✔	✔	✔						
Pyrene	✔	✔	✔	✔	✔	✔						
Aromatics												
2-chlorophenol	✔		✔	✔	✔	✔						
2,4-dichlorophenol	✔		✔	✔	✔	✔						
2,4-dinitrophenol	✔		✔	✔	✔	✔						
4-chloro-3-methyl phenol	✔		✔	✔	✔	✔						
4-iso-propyltoluene	✔		✔	✔	✔	✔						
4-nitrophenol	✔		✔	✔	✔	✔						

✓ Contaminant treatable with REGENESIS Products

	LAC		ISCO			Aerobic Bio	Anaerobic Bio				ISCR	
Range of Treatable Contaminants	PlumeStop®	PetroFix®	RegenOx®	PetroCleanze	PersulfOx®	ORC® Advanced	3DME®	HRC®	HRC-X®	BDI® Plus	CRS®	S-MicroZVI™
Aromatics (continued)												
Chlorobenzene	✓		✓	✓	✓	✓						
Dichlorobenzene	✓		✓	✓	✓	✓						
N-butylbenzene	✓		✓	✓	✓	✓						
Nitrobenzene	✓		✓	✓	✓	✓						
Pentachlorophenol	✓				✓	✓	✓	✓	✓		✓	✓
Phenol	✓		✓	✓	✓	✓						
Propylbenzene	✓		✓	✓	✓	✓						
Styrene	✓		✓	✓	✓	✓						
Trichlorobenzene	✓		✓	✓	✓	✓						
Trimethylbenzene	✓		✓	✓	✓	✓						
Haloalkanes												
Dichlorodifluoromethane (Freon 12)	✓						✓	✓	✓		✓	✓
Trichlorofluoromethane (Freon 11)	✓						✓	✓	✓		✓	✓
Trichlorofluoroethane (Freon 113)	✓						✓	✓	✓		✓	✓
Per- and polyfluoroalkyl substances (PFAS)	✓											
Pesticides and Herbacides												
Chlordane	✓						✓	✓	✓		✓	✓
Heptachlor Epoxide	✓						✓	✓	✓		✓	✓
Lindane (hexachlorocyclohexane)	✓						✓	✓	✓		✓	✓
DDT, DDD, DDE	✓						✓	✓	✓		✓	✓
Toxaphene	✓						✓	✓	✓		✓	✓
Dieldrin	✓						✓	✓	✓		✓	✓
2,4-D	✓						✓	✓	✓		✓	✓
2,4,5-T	✓						✓	✓	✓		✓	✓
Endrin	✓						✓	✓	✓		✓	✓
Energetics												
TNT	✓		✓				✓	✓	✓		✓	✓
DNT	✓		✓				✓	✓	✓		✓	✓
Nitroglycerine	✓		✓				✓	✓	✓		✓	✓
HMX	✓		✓				✓	✓	✓		✓	✓
RDX	✓		✓				✓	✓	✓		✓	✓
Miscellaneous												
Acetone	✓		✓	✓	✓	✓						
Bis(2-ethylhexyl)phthalate	✓		✓	✓	✓	✓						
4-methyl-2-pentanone	✓		✓	✓	✓	✓						
Perchlorate							✓	✓	✓		✓	✓
Polychlorinated biphenyls (PCBs)	✓						✓					✓
Nitrates							✓	✓	✓		✓	✓
Carbon Disulfide (CS2)			✓	✓	✓		✓	✓	✓			
1,4-Dioxane					✓							
Heavy Metals												
Chromium (VI)							✓	✓	✓		✓	✓

For additional questions or for a site review please call 949.366.8000

Treatment Applicability of *In Situ* Technologies- Based on Geology and Concentration

Contact us on **europe@regenesis.com** to discuss the treatability of your contaminant of concern and site details so that we can recommend the most effective REGENESIS solution.

		Geology			Concentration				
		Clay/ Silt	Sand/ Gravel	Bedrock	Low (dissolved)	Mid (dissolved)	High (dissolved)	NAPL Potential[1]	NAPL Measurable[2]
Sorption and Bio	PlumeStop®	🟡	🟢	🟢	🟢	🟢	🟡	🔴	🔴
	PetroFix™	🟡	🟢	🟢	🟢	🟢	🟢	🟢	🔴
ISCO and Enhanced Desorption	PetroCleanze®	🔴	🟢	🟡	🔴	🟡	🟢	🟢	🟢
	RegenOx®	🟡	🟢	🟡	🔴	🟢	🟢	🟡	🔴
	PersulfOx®	🟡	🟢	🟡	🔴	🟢	🟢	🟡	🔴
Aerobic Bio	ORC Advanced®	🟢	🟢	🟢	🟢	🟢	🟡	🔴	🔴
Anaerobic Bio	3DME®	🟡	🟢	🟢	🟢	🟢	🟢	🟢	🟡🔴
	HRC®	🟢	🟡	🟡	🟢	🟢	🟢	🟡	🔴
	BDI® Plus	🟢	🟢	🟢	🟢	🟢	🟢	🟢	🔴
ISCR	S-MicroZVI®	🟡	🟢	🟢	🟡	🟢	🟢	🟢	🟡🔴
	CRS®	🟡	🟢	🟢	🟡	🟢	🟢	🟢	🔴

(1): Refers to iridescence, few mm layer, or tiny droplets

(2): Refers to continuous layer of NAPL (≥ several mm)

🟢 Ideal 🟡 Suitable 🔴 Not suitable

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