

**Recommended Soil Cleanup Objectives for
Gasoline Contaminated Soils**

Contaminant	CAS Registry Number	Partition coefficient Koc	Recommended EPA Method	Groundwater Standards/ Criteria C _w ug/l or ppb	Allowable Soil Concentration Cs ¹ (ppm)	Soil Cleanup objectives to Protect GW Quality (ppm)*	USEPA Health Based (HEAST)		Detection Limit Solid (ppb)	Rec.soil Cleanup Objective (ppm)
							Carcinogens (ppm)	Systemic Toxicants (ppm)		
Benzene	71-43-2	83	8021/8260	0.7	0.0006	0.06	24	N/A	2	0.06 or MDL
Ethylbenzene	100-41-4	1,100	8021/8260	5	0.055	5.5	N/A	8,000	2	5.5
Toluene	108-88-3	300	8021/8260	5	0.015	1.5	N/A	20,000	2	1.5
Mixed Xylenes	N/A	240	8021/8260	5	0.012	1.2	N/A	200,000	2	1.2
Isopropylbenzene	98-82-8	454	8021/8260	5	0.023	2.3	N/A	3,100	1	2.3
n-Propylbenzene	103-65-1	741	8021/8260	5	0.037	3.7	N/A	N/A	1	3.7
p-Isopropyltoluene	99-87-6	2,114	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
1,2,4 - Trimethylbenzene	95-63-6	2,590	8021/8260	5	0.13	13.0	N/A	N/A	1	10.0*
1,3,5 - Trimethylbenzene	108-67-8	661	8021/8260	5	0.033	3.3	N/A	N/A	1	3.3
n-Butyl-Benzene	104-51-8	2,455	8021/8260	5	0.12	12.0	N/A	N/A	1	10.0*
sec-Butyl-Benzene	135-98-8	2,200	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
Tert-Butyl-Benzene	98-06-6	2,200	8021/8260	5	0.11	11.0	N/A	N/A	1	10.0*
Naphthalene	91-20-3	1,300	8021/8260	10	0.13	13.0	N/A	300	1	13.0
Methyl-Tert-Butyl-Ether (MTBE)**	1634-04-4	12	8021/8260**	10	0.0012	0.12	N/A	N/A	1	0.12
N/A - Not applicable MDL - Method Detection Limit 1 - Allowable concentration with no Dilution Attenuation Factor - see TAGM 4046	<p>*As per TAGM 4046 individual and the sum of VOCs not listed (Tentatively Identified Compounds(TICs)) ≤ 10 ppm</p> <p>** Methyl t-butyl ether (MTBE) is not a target compound of Methods 8021 and 8260, but MTBE may be determined using these methods with appropriate quality assurance and quality control measures.</p> <p>Note: Soil cleanup objectives are developed for soil organic content (f) of 1 %, and should be adjusted for the actual soil organic content if it is known.</p>									