Underground Storage Tank Branch Guidance Manual (USTBGM)
and Risk Integrated System of Closure (RISC)

Petroleum COCs - USTBGM, October 1994, LUST Site Cleanup Objectives and

RISC Appendix 1 Default ClosureTables - 2001, 2004 and 2006[#]

Pathway >	**Default Residential/Off-Site**				**Default Commercial-Industrial/On-Site**			
Concentration >	**Soil (mg/kg)**				**Soil (mg/kg)**			
Contaminant	**10/1/1994**	**2/15/2001**	**1/1/2004**	**1/31/2006**	**10/1/1994**	**2/15/2001**	**1/1/2004**	**1/31/2006**
Benzene	NA	0.034	0.034	0.034	NA	0.67	0.35	0.35
Ethylbenzene	NA	13	13	13	NA	200	160	160
Toluene	NA	12	12	12	NA	240	240	96
Xylene	NA	190	170	170	NA	410	170	170
MTBE	NA	0.35	0.18	0.18	NA	5.6	3.9	3.2
Benzo(a)anthracene	NA	5	5	5	NA	15	15	15
Benzo(b)fluoranthene	NA	5	5	5	NA	15	15	15
Benzo(k)fluoranthene	NA	39	39	50[#]	NA	39	39	150[#]
Benzo(a)pyrene	NA	0.5	0.5	0.5	NA	1.5	1.5	1.5
Chrysene	NA	25	25	500[#]	NA	25	25	1500[#]
Dibenzo(a,h)anthracene	NA	0.5	0.5	0.5	NA	1.5	1.5	1.5
Indeno(1,2,3-cd)pyrene	NA	3.1	3.1	5[#]	NA	3.1	3.1	15[#]
Naphthalene	NA	0.7	0.7	0.7	NA	170	170	170
Total SVOCs	NA	NA	NA	NA	NA	NA	NA	NA
TPH-GRO	20	SS	SS	120	100	SS	SS	1,500
TPH-DRO/ERO	20	SS	SS	230	100	SS	SS	2,300
Other (VOCs, metals, PCBs, etc.)[&]	SS	SS	SS	SS	SS	SS	SS	SS
Pathway >	**Default Residential/Off-Site**				**Default Commercial-Industrial/On-Site**			
Concentration >	**Ground Water(µg/l)**				**Ground Water(µg/l)**			
Contaminant	**10/1/1994**	**2/15/2001**	**1/1/2004**	**1/31/2006**	**10/1/1994**	**2/15/2001**	**1/1/2004**	**1/31/2006**
Benzene	5	5	5	5	5	99	52	52
Ethylbenzene	700	700	700	700	700	10000	10000	10000
Toluene	1000	1000	1000	1000	1000	20000	20000	8200
Xylene	10000	10000	10000	10000	10000	180000	20000	20000
MTBE	NA	45	40	40	NA	720	870	720
Benzo(a)anthracene	NA	1.2	1.2	1.2	NA	3.9	3.9	3.9
Benzo(b)fluoranthene	NA	1.2	1.2	1.2	NA	1.5	1.5	3.9[#]
Benzo(k)fluoranthene	NA	0.8	0.8	12[#]	NA	0.8	0.8	39[#]
Benzo(a)pyrene	NA	0.2	0.2	0.2	NA	0.39	0.39	0.39
Chrysene	NA	1.6	1.6	120[#]	NA	1.6	1.6	390[#]
Dibenzo(a,h)anthracene	NA	0.12	0.12	0.12	NA	0.39	0.39	0.39
Indeno(1,2,3-cd)pyrene	NA	0.022	0.022	1.2[#]	NA	0.022	0.022	3.9[#]
Naphthalene	NA	8.3	8.3	8.3	NA	2000	2000	2000
Total SVOCs	100	NA	NA	NA	100	NA	NA	NA
TPH-GRO	1000	SS	SS	**1,100***	1000	SS	SS	**14,000***
TPH-DRO/ERO	1000	SS	SS	**260***	1000	SS	SS	**2,500***
Other (VOCs, metals, PCBs, etc.)[&]	SS	SS	SS	SS	SS	SS	SS	SS

Key:
NA= Not applicable
SS = Site Specific

[#] In August 2006, RISC Staff determined the default ground water closure levels based on solubility for certain PAHs were problematic because the closure levels approached, or were below, analytical method detection limits and decided to use the health protective level as the ground water default closure level instead.

[&]IDEM may require additional analyses for metals, PCBs, etc., depending on UST contents or site history

*Based on the June 17, 2010 Announcement of Changes to Total Petroleum Hydrocarbon (TPH) Procedures for Ground Water, analysis of TPH in groundwater is no longer warranted, except to confirm the safety of municipal or private drinking water wells that are potentially affected by a petroleum release.