Arizona Department of Environmental Quality UST Program

Tier 1 Cleanup Standards- Petroleum Products

January 2014

COMPOUND OF CONCERN	Aquifer Water Quality Standard (µg/L)	Residential SRLs (mg/Kg)			Non-Residential SRL (mg/Kg)	GPL[3] (mg/Kg)
		school[1]	residential[2]	non-carcinogenic		
1,3-Butadiene		0.058	0.58		1.2	0.04
1,2-Dibromoethane (EDB)	0.05	0.029	0.29		0.63	
1,2-Dichloroethane (DCA)	5	0.28	2.8		6.0	0.23
1,2,4-Trimethylbenzene				52	170	26
1,3,5-Trimethylbenzene				21	70	6
Acenaphthene				3700	29000	21*
Anthracene				22000	240000	1*
Benz[a]anthracene		0.69	6.9		21	
Benzene	5	0.65			1.40	0.70
Benzo[a]pyrene	0.2	0.069	0.69		2.1	
Benzo[b]fluoranthene		0.69	6.9		21	
Benzo[k]fluoranthene		6.9	69		210	
n-Butylbenzene				240	240	41*
sec-Butylbenzene				220	220	39*
tert-Butylbenzene				220	220	69*
Carbon disulfide		360	360		720	122
Chrysene		68	680		2000	0.64*
Cumene (isopropylbenzene)				92	92	21*
Cyclohexane				140	140	44*
Cyclohexanone		310000	310000		1,000,000	
Dibenz[a,h]anthracene		0.069	0.69		2.1	
Dicyclopentadiene				0.54	1.8	
Ethylbenzene	700			400	400	82*
Fluoranthene		2300	2300		22000	
Fluorene				2700	26000	26*
n-Hexane				110	110	24*
Indeno[1,2,3-c,d]pyrene		0.69	6.9		21	

Methyl ethyl ketone				23000	34000	121
Methyl isobutyl ketone				5300	17000	48
Methyl *tert*-butyl ether (MTBE)		32	320		710	0.47
Methylcyclohexane				230	230	49*
Naphthalene				56	190	4
n-Propylbenzene				240	240	41*
Pyrene				2300	29000	14*
Tetraethyl lead				0.0061	0.062	
Toluene	1000			650	650	159*
Xylenes (total)	10000			270	420	31*
Other Organics						
1,1-Biphenyl				350	350	
Carbazole		27	270		860	
2-Methylphenol (o-creosol)				3100	31000	
3-Methylphenol				3100	31000	
4-Methylphenol				310	3100	
Inorganics						
Antimony	6	31	31		410	35
Arsenic	50 (MCL is 10)	10	10		10	290
Beryllium	4	150	150		1900	23
Cadmium	5	39	39		510	29
Lead	50	400	400		800	290
Mercury	2	23	23		310	12
Molybdenum		390	390		5100	
Selenium	50	390	390		5100	290
Vanadium		78	78		1000	

[1] represents 10^{-6} risk (school or childcare) Soil Remediation Levels

[2] represents 10^{-5} risk (residential) Soil Remediation Levels

[3] Groundwater Protection Levels; the lower of the minimum GPL or the saturation limit*