TABLE 4-5

POTENTIAL ARAR VALUES FOR SOIL

Compounds Detected[f]	Washington State Model Toxics Control Act WAC 173-340-720[d,h]			
	Method B, mg/kg		Method C, mg/kg	
	Carcinogenic	Non-carcinogenic	Carcinogenic	Non-carcinogenic
METALS				
Aluminum		80000		320000
Antimony		32		128
Arsenic[a]		7	57.1	240
Barium		5600		22400
Beryllium	0.233	400	9.3	1600
Cadmium		80		320
Calcium				
Chromium[b]		400		1600
Cobalt		4800		19200
Copper		2960		11800
Iron				
Lead[c]		250		1000
Magnesium				
Manganese		11200		44800
Mercury		24		96
Nickel		1600		6400
Potassium				
Selenium		400		1600
Silver		400		1600
Sodium				
Thallium		5.6		22.4
Vanadium		560		2240
Zinc		24000		96000
ORGANICS				
Acetone		8000		32000
Aroclor-1242[g]	1.6		6.4	
Aroclor-1254	1.6		6.4	
benzene	34.5		1380	
benzo(a)pyrene	0.137		5.48	
Bis(2-ethylhexyl)phthalate	71.4	1600	2860	6400
2-butanone (MEK)		48000		192000
butylbenzylphthalate		16000		64000
carbon disulfide		8000		32000
chrysene	0.137		5.48	
dibutylphthalate		8000		32000
1,2-dichlorobenzene		7200		28800
1,4-dichlorobenzene	41.7		1670	
dibenzofuran[e]		3200		12800
diethylphthalate		64000		256000
dimethylphthalate		80000		320000
4,4'-DDT	2.94	40	118	160
ethylbenzene		8000		32000
fluorene		3200		12800
isophorone	1050	16000	42100	64000
methylene chloride	133	4800	5330	19200
2-methylnaphthalene[e]		3200		12800
naphthalene		3200		12800
phenanthrene[j]		2400		9600
styrene	33.3	16000	1330	64000
tetrachloroethene	19.6	800	784	3200
toluene		16000		64000
total petroleum hydrocarbons (TPH)		200[i]		200[i]
1,1,1-trichloroethane		72000		288000
trichloroethene	90.9		3640	
1,1,2-trichloro-1,2,2-trifluoroethane[k]		1000000		1,000,000
trichlorofluoromethane		24,000		1,000,000
total xylenes		160000		640000

POTENTIAL ARAR VALUES FOR SOIL

[a] Method B cleanup level based on background concentration for the State of Washington as defined in WDOE (1994).
[b] Assumes Cr(VI).
[c] There is no Method B or C cleanup level for lead. Cleanups level based on MTCA Method A and Method A (Industrial).
[d] Cleanup levels based on the January 1995 Update to the MTCA Cleanup Levels and Risk Calculations (CLARC II) Database (WDOE 1995).
[e] Naphthalene used as a surrogate.
[f] Compounds detected in soil in this RI and in the Site Hazard Assessment (E&E [1991]) (See Chapter 5).
[g] Aroclor-1254 used as a surrogate.
[h] Values shown do not account for protection of groundwater.
[i] There is no Method B or C cleanup value for TPH. Value shown represents the Method A value.
[j] Pyrene used as a surrogate.
[k] Method B value presented in the CLARC II database (2.4×10^6 mg/kg) is not reasonable.
Therefore, have adjusted value to 1×10^6 mg/kg.