Table 2
Region 4 Ecological Technical Advisory Group Sediment Screening Values for Hazardous Waste Sites. (Organic Carbon Normalized)

Chemical	*CAS*	*Freshwater Sediment Screening Value (mg/kg OC)*		*Source*	*Marine/Estuarine Sediment Screening Value (mg/kg OC)*		*Source*
		Conventional ESB	Narcosis ESB		*Conventional ESB*	Narcosis ESB	
Volatile Organic Compounds (VOCs)							
Chlorinated alkanes							
1,1,2,2-Tetrachloroethane	79-34-5	140	830	a	140	830	a
1,1,1-Trichloroethane	71-55-6	3	660	a	3	660	a
Tetrachloromethane (Carbon tetrachloride)	56-23-5	120	770	a	120	770	a
Chlorinated alkenes							
1,1,2,2-Tetrachloroethylene (PCE)	127-18-4	41	840	a	41	840	a
1,1,2-Trichloroethylene (TCE)	79-01-6	22	650	a	22	650	**a**
Chlorobenzenes							
Chlorobenzene	108-90-7	41	570	a	41	570	a
1,2-Dichlorobenzene	95-50-1	33	780	a	33	780	a
1,2-Dichlorobenzene	95-50-1	2.3	2.3	b	2.3	2.3	b
1,3-Dichlorobenzene	541-73-1	170	780	a	170	780	a
1,4-Dichlorobenzene	106-46-7	34	780	a	34	780	a
1,4-Dichlorobenzene	106-46-7	3.1	9	b	3.1	9	b
1,2,4-Trichlorobenzene	120-82-1	960	1,100	a	960	1,100	a
1,2,4-Trichlorobenzene	120-82-1	0.81	1.8	b	0.81	1.8	b
Monoaromatic hydrocarbons							
Benzene	71-43-2	16	660	a	16	660	a
Ethylbenzene	100-41-4	8.9	970	a	8.9	970	a
Toluene	108-88-3	5	810	a	5	810	a
Xylene, m-	108-38-3	94	980	a	94	980	a
Other VOCs							
Bromoform (Tribromomethane)	75-25-2	65	1,200	a	65	1,200	a
Semi-Volatile Organic Compounds (SVOCs)							
Chlorobenzenes							
Pentachlorobenzene	608-93-5	70	1,600	a	70	1,600	a
Hexachlorobenzene	118-74-1	-	-	-	0.38	2.3	b

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		Conventional ESB	Narcosis ESB		*Conventional ESB*	Narcosis ESB	
Phthalates							
Bis (2-ethylhexyl) phthalate	117-81-7				47	78	b
Butyl benzyl phthalate	85-68-7	1,100		a	4.9	64	b
Diethyl phthalate	84-66-2	77		a		110	b
Dimethyl phthalate	131-11-3				53	53	b
Di-n-butyl phthalate	84-74-2	1,200		a	220	1,700	b
Di-n-octyl phthalate	117-84-0				58	4,500	b
Polycyclic Aromatic Hydrocarbons (PAHs)							
2-Methyl naphthylene	91-57-6				38	64	b
Acenaphthene	83-32-9		491	a	16	57	b
Acenaphthylene	208-96-8		452	a	66	66	b
Anthracene	120-12-7		594	a	220	1,200	b
Benzo(a)anthracene	56-55-3		841	a	110	270	b
Benzo(a)pyrene	50-32-8		965	a	99	210	b
Benzo(b)fluoranthene	205-99-2		979	a			
Benzo(e)pyrene	192-97-2		967	a			
Benzo(g,h,i)perylene	191-24-2		1,095	a	31	78	b
Benzo(k)fluoranthene	207-08-9		981	a			
Chrysene	218-01-9		844	a	110	460	b
Dibenz(a,h) anthracene	53-70-3		1,123	a	12	33	b
Fluoranthene	206-44-0		707	a	160	1,200	b
Fluorene	86-73-7		538	a	23	79	b
Indeno(1,2,3-cd)pyrene	193-39-5		1,115	a	34	88	b
Naphthalene	91-20-3		385	a	99	170	b
Perylene	198-55-0		967	a			
Phenanthrene	85-01-8		596	a	100	480	b
Pyrene	129-00-0		697	a	1,000	1,400	b
LMW PAHs					370	780	b
HMW PAHs					960	5,300	b

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		Conventional ESB	Narcosis ESB		*Conventional ESB*	Narcosis ESB	
Other SVOCs							
1,1-Biphenyl	92-52-4	110	1,500	a	110	1,500	a
4-Bromophenyl Phenyl Ether	101-55-3	120	1,600	a	120	1,600	a
Dibenzofuran	132-64-9	37	1,700	a	37	1,700	a
Dibenzofuran	132-64-9				15	58	b
Hexachloroethane	67-72-1	100	1,400	a	100	1,400	a
N-Nitrosodiphenylamine	86-30-6				11	11	b
Hexachlorobutadiene	87-68-3				3.9	6.2	b
Pesticides							
BHC-alpha	319-84-6	11		a			
BHC-beta	319-85-7	11		a			
BHC-delta	319-86-8	11		a			
BHC-gamma (Lindane)	58-89-9	0.37		a			
Diazinon	333-41-5	0.74		a	3.6		a
Dieldrin	60-57-1	12 (5.4-27)		a	28 (12-62)		a
Endosulfan-mixed isomers	115-29-7	0.6		a	0.093		a
Endosulfan-alpha	959-98-8	0.33		a	0.051		a
Endosulfan-beta	33213-65-9	1.6		a	0.24		a
Endrin	72-20-8	5.4 (2.4-12)		a	0.99 (0.44-2.2)		a
Malathion	121-75-5	0.067		a	0.11		a
Methoxychlor	72-43-5	1.9		a			
Toxaphene	8001-35-2	10		a	54		a
Polychlorinated Biphenyls (PCBs) -							
Total PCBs	1336-36-3	12	65	b	12	65	b
ESB - Equlibrium Sediment Benchmark							

a = Burgess, et al. 2013. Mechanistic sediment Quality Guidelines Based on Contaminant Bioavailability: Equlibrium Partitioning Sediment Benchmarks. *Environ, Toxicol. Chem.* 32-1: 102-114.

b - Washington State Sediment Management Standards, Cleanup Objectives. http://www.ecy.wa.gov/programs/tcp/smu/sed_standards.htm