

Metals

	CBSQGs for Sediment		Soil Values From DNR RSL Spreadsheet			EPA Region 5 Ecological Screening Levels	
Constituent	TEC (mg/kg dry wt)	PEC (mg/kg dry wt)	Non-industrial (mg/kg)	Industrial (mg/kg)	Groundwater Pathway (mg/kg)	R5 Sediment ESL (mg/kg)	R5 Soil ESL (mg/kg)
Antimony	2	25	31.3	409	0.542		0.142
Arsenic	9.8	3	0.613	2.39	0.584	9.79	5.7
Cadmium	0.99	5	70	799	0.752	0.99	0.00222
Chromium	43	110				43.4	0.4
Copper	32	150	3,130	40,900	91.6	31.6	5.4
Iron	20,000	40,000	54,800	100,000			
Lead	36	130	400	800	27	35.8	0.0537
Manganese	460	1,100	1,830	22,900	39.1244		
Mercury	0.18	1.1	3.13	3.13	0.208	0.174	0.1
Nickel	23	49		19,800	13.0612	22.7	13.6
Silver	1.6	2.2	391	5,110	0.8491	0.5	4.04
Zinc	120	460	23,500	100,000		121	6.62

Green shaded areas are the most protective concentrations

NOTE: The Region 5 Ecological screening levels are one of several tools available through the Risk Assessment Information System (RAIS) housed by the University of Tennessee. The tool can be found at: https://rais.ornl.gov/tools/eco_search.php

PAHs & PCBs

	CBSQGs for Sediment		Soil Values From DNR RSL Spreadsheet			EPA Region 5 Ecological Screening Levels	
Constituent	TEC (mg/kg dry wt)	PEC (mg/kg dry wt)	Non-industrial (mg/kg)	Industrial (mg/kg)	Groundwater Pathway (mg/kg)	R5 Sediment ESL (mg/kg)	R5 Soil ESL (mg/kg)
Acenaphthene	0.0067	0.089	3,440	33,000		0.00671	682
Acenaphthylene	0.0059	0.128				0.00587	682
Anthracene	0.0572	0.845	17,200	100,000	196.9492	0.0572	1480
Fluorene	0.0774	0.536	2,290	22,000	14.8299	0.0074	
Naphthalene	0.176	0.561	5.15	26	0.6582	0.176	0.0994
2-methylnaphthalene	0.0202	0.201	229	22,000		0.0202	3.24
Phenanthrene	0.204	1.17				0.204	45.7
Benza(a)anthracene	0.108	1.05	0.147	2.1		0.108	5.21
Benzo(a)pyrene	0.15	1.45	0.015	0.211	0.47	0.15	1.52
Benzo(e)pyrene	0.15	1.45					
Benzo(b)fluoranthene	0.24	13.4	0.148	2.11	0.4793	10.4	59.8
Bnezo(k)fluoranthene	0.24	13.4	1.48	21.1		0.24	148
Benzo(g,h,i)perylene	0.17	3.2				0.17	119
Chrysene	0.166	1.29	14.8	211	0.1446	0.166	4.73
Dibenzo(a,h)anthracene	0.033	0.135	0.015	0.211		0.033	18.4
Fluoranthene	0.423	2.23	2,290	22,000	88.8778	0.423	122
Indeno(1,2,3-cd)pyrene	0.2	3.2	0.148	2.11		0.2	109
Pyrene	0.195	1.52	1720	16500	54.5455	0.195	78.5
Total PAHs	1.61	22.80					
Total PCBs	0.06	0.676	0.208	0.714		0.0598	

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Pesticides, etc.

	CBSQGs		From DNR RSL Spreadsheet			EPA Region 5 Ecological Screening Levels	
Constituent	TEC (mg/kg dry wt)	PEC (mg/kg dry wt)	Non-industrial (mg/kg)	Industrial (mg/kg)	Groundwater Pathway (mg/kg)	R5 Sediment ESL (mg/kg)	R5 Soil ESL (mg/kg)
Aldrin	0.002	0.08	0.037	0.164		0.002	0.00332
BHC	0.003	0.12	0.27	0.948			
alpha-BHC	0.006	0.1	0.077	0.274		0.006	0.0994
beta-BHC	0.005	0.21	0.27	0.958		0.005	0.00398
gamma-BHC (lindane)	0.003	0.005	0.516	2.06		0.00237	0.005
Chlordane	0.0032	0.018	1.55	6.23		0.00324	0.24
Dieldrin	0.0019	0.062	0.03	0.018		0.0019	0.00238
Sum DDD	0.0049	0.028	2.02	7.18		0.00488	0.758
Sum DDE	0.0032	0.031	1.84	8.25		0.00316	0.596
Sum o,p' + p,p' DDT	0.0042	0.063					
Sum of DDT + DDD DDE	0.0053	0.572					
Endrin	0.0022	0.207	18.3	185	0.1616	0.00222	0.0101
Heptachlor Epoxide	0.0025	0.016	0.066	0.299	0.0082	0.00247	0.152
Mirex	0.007	0.014	0.034	0.151			
Toxaphene	0.001	0.002	0.441	1.57	0.928	0.000077	0.119

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Other Assorted

	CBSQGs for Sediment		Soil Values From DNR RSL Spreadsheet			EPA Region 5 Ecological Screening Levels	
Constituent	TEC (mg/kg dry wt)	PEC (mg/kg dry wt)	Non-industrial (mg/kg)	Industrial (mg/kg)	Groundwater Pathway (mg/kg)	R5 Sediment ESL (mg/kg)	R5 Soil ESL (mg/kg)
Benzene	0.057	0.11	1.49	7.41	0.0051	0.14157	0.255
Toluene	0.89	1.8	818	818	1.1072	1.22	5.45
Xylene	0.025	0.05	260	260	3.96	0.433	10
2,3,7,8-TCDD (pgTEQ/g)	0.00085	0.0215	0.00000439	0.000018	0.00003	0.00000012	0.00000019
Pentachlorophenol	0.15	0.2	0.892	2.7	0.0202	23	0.119
Tributyltin	0.00052	0.00294	18.3	185			
1,2-dichlorobenzene	0.023	0.023	376	376	1.168	0.294	2.96
1,4-dichlorobenzene	0.031	0.09	3.48	17.5	0.144	0.318	0.546
1,2,4-trichlorobenzene	0.008	0.018	22	98.7	0.408	5.062	11.1
Dimethyl Phthalate	0.53	0.53	7,820	100,000			734
Diethyl Phthalate	0.61	1.1	48,900	100,000		0.295	24.8
Di-N-Butyl Phthalate	2.2	17	6,110	61,600		1.114	0.15
Di-N-Octyl Phthalate	0.58	45	611	6,160		4.06	709
Dibenzofuran	0.15	0.58	72.2	853		0.449	
Phenol	4.2	12	18,300	100,000	2.2946	0.0491	120
2-methylphenol	6.7	6.7				0.30453	
2,4 dimethyl phenol	0.29	0.29	1,220	12,300		30453	0.01
Benzyl Alcohol	0.57	0.73	6,110	61,600		0.00104	65.8
Benzoic Acid	6.5	6.5	100,000	100,000			

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EPA Region 5 ESLs - Sed

The ESL reference database consists of Region 5 media-specific (soil, water, sediment, and air) Ecological Screening Levels (ESLs) for RCRA Appendix IX hazardous constituents. The ESLs are initial screening levels with which the site contaminant concentrations can be compared. The ESLs help to focus the investigation on those areas and chemicals that are most likely to pose an unacceptable risk to the environment. ESLs also impact the data requirements for the planning and implementation of field investigations. ESLs alone are not intended to serve as cleanup levels. See the August 2003 revision of the ESLs (formerly EDQLs) at [EPA_RS_ESL.pdf](#)

EPA Region 5 ESLs – Soil

The ESL reference database consists of Region 5 media-specific (soil, water, sediment, and air) Ecological Screening Levels (ESLs) for RCRA Appendix IX hazardous constituents. The ESLs are initial screening levels with which the site contaminant concentrations can be compared. The ESLs help to focus the investigation on those areas and chemicals that are most likely to pose an unacceptable risk to the environment. ESLs also impact the data requirements for the planning and implementation of field investigations. ESLs alone are not intended to serve as cleanup levels. See the August 2003 revision of the ESLs (formerly EDQLs) at [EPA_RS_ESL.pdf](#)