

US EPA ARCHIVE DOCUMENT

Table PG3. Chemical-specific Waste Concentrations for Surface Impoundments (mg/l)
 Human Receptors - 1000 meters; Ecological Receptors - 2000 meters

Chemical Name	CASRN	Protection Group 1			Protection Group 2			Protection Group 3			Protection Group 4		
		HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest	HH	Eco	Lowest
Acetonitrile	75-05-8	20	note 1	20	500	note 1	500	500	note 1	500	2000	note 1	2000
Acrylonitrile	107-13-1	0.005	note 1	0.005	0.01	note 1	0.01	0.7	note 1	0.7	5	note 1	5
Aniline	62-53-3	0.4	1000	0.4	0.9	1000	0.9	7	1000	7	10	1000	10
Arsenic	7440-38-2	0.004	0.3	0.004	0.007	0.6	0.007	0.4	0.6	0.4	0.6	10	0.6
Barium	7440-39-3	4	700	4	90	1000	90	90	1000	90	600	1000	600
Benzene	71-43-2	0.07	20	0.07	0.4	40	0.4	30	40	30	70	100	70
Benzo(a)pyrene	50-32-8	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Beryllium	7440-41-7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bis-(2-ethylhexyl) phthalate	117-81-7	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Cadmium	7440-43-9	0.04	10	0.04	0.6	10	0.6	0.6	10	0.6	1	10	1
Carbon disulfide	75-15-0	6	10	6	100	30	30	100	30	30	100	100	100
Chlorobenzene	108-90-7	0.5	100	0.5	20	100	20	20	100	20	70	100	70
Chloroform	67-66-3	0.3	3	0.3	0.6	8	0.6	6	8	6	100	300	100
Dibenz[a,h]anthracene	53-70-3	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Dichlorophenoxyacetic acid, 2,4-	94-75-7	0.3	note 1	0.3	6	note 1	6	6	note 1	6	40	note 1	40
Divalent Mercury	7439-97-6	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Ethylene dibromide	106-93-4	0.0002	note 1	0.0002	0.0004	note 1	0.0004	0.02	note 1	0.02	0.2	note 1	0.2
Lead	7439-92-1	note 2	2	2	note 2	3	3	note 2	3	3	note 2	40	40
Methyl ethyl ketone	78-93-3	80	2000	80	6000	6000	6000	6000	6000	6000	10000	10000	10000
Methyl methacrylate	80-62-6	60	note 1	60	1000	note 1	1000	1000	note 1	1000	1000	note 1	1000
Methylene chloride	75-09-2	0.4	1000	0.4	0.8	1000	0.8	100	1000	100	500	1000	500
Nickel [+2]	7440-02-0	1	1000	1	50	1000	50	50	1000	50	200	1000	200
Nitrobenzene	98-95-3	0.03	100	0.03	0.6	100	0.6	0.6	100	0.6	20	100	20
Pentachlorophenol	87-86-5	0.4	1	0.4	0.8	1	0.8	1	1	1	1	1	1
Phenol	108-95-2	500	4000	500	10000	10000	10000	10000	10000	10000	10000	10000	10000
Pyridine	110-86-1	0.04	10	0.04	1	10	1	1	10	1	6	10	6
Silver	7440-22-4	note 4	4000	note 4	7	10000	7	7	10000	7	30	10000	30

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Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	1746-01-6	0.000002	0.00001	0.000002	0.000006	0.00001	0.000006	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Tetrachloroethylene	127-18-4	0.06	100	0.06	0.3	100	0.3	7	100	7	50	100	50
Thallium [+1]	7446-18-6	0.003	1	0.003	0.05	1	0.05	0.05	1	0.05	0.09	1	0.09
Thiram	137-26-8	10	10	10	10	10	10	10	10	10	10	10	10
Toluene	108-88-3	20	6	6	800	20	20	800	20	20	1000	400	400
Trichloroethane, 1,1,1-	71-55-6	note 4	20	note 4	60	60	60	60	60	60	600	900	600
Trichloroethylene	79-01-6	0.4	0.3	0.3	0.8	0.6	0.6	60	0.6	0.6	100	20	20
Vinyl chloride	75-01-4	0.003	0.2	0.003	0.007	0.4	0.007	0.4	0.4	0.4	0.9	10	0.9
Zinc	7440-66-6	40	2000	40	700	3000	700	700	3000	700	3000	10000	3000

- note 1: Ecological impacts were not evaluated due to the lack of chronic ecological toxicity values.
- note 2: Human impacts were not evaluated due to the lack of human health toxicity values.
- note 3: The values in the highlighted cells are the same as the highest waste concentration evaluated.
- note 4: The lowest concentration does not meet the protection criteria for this protection group.
- NA: Not Applicable