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# Comparison of 2013 Soil and Soil Leachate Screening Levels with 2021 Soil and Soil Leachate Remediation Standards for the Migration to Ground Water Exposure Pathway

		Ground Water Remediation Standard (ug/)	Soil Screening Level	Soil Remediation Standard	Soil Leachate Screening Level	Soll Leachate Remediation Standard
Contaminant	CAS No.		Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway
			2013	2021	2013	2021
			mg/kg	mg/kg	ug/l	ug/l
Acenaphthene	83-32-9	400	110	NA <sup>1</sup>	4,200	NA <sup>1</sup>
Acenaphthalene	208-96-8	NA	NA	NR	NA	NR
Acetone (2-Propanone)	67-64-1	6,000	19	19	120,000	120,000
Acetophenone	98-86-2	700	3	3.6	14,000	14,000
Acrolein	107-02-8	4	0.5	NR	80	NR
Acrylonitrile	107-13-1	0.06	0.5	NR	2.0	NR
Aldrin	309-00-2	0.04	0.2	0.13	0.04	0.8
Aluminum (total)	7429-90-5	NA	6,000	NA <sup>2</sup>	4,000	NA <sup>2</sup>
Anthracene	120-12-7	2,000	2,400	NA <sup>1</sup>	43	NA <sup>1</sup>
Antimony (total)	7440-36-0	6	6	5.4	120	120
Arsenic (total)	7440-38-2	3	19	19 <sup>3</sup>	3	60
Atrazine	1912-24-9	3	0.2	0.33 4	60	60
Barium (total)	7440-39-3	6,000	2,100	2,100	120,000	120,000
Benzaldehyde	100-52-7	NA	NA	NA <sup>5</sup>	NA	NA <sup>5</sup>
Benzene	71-43-2	1	0.005	0.0094	4	20
Benzidine	92-87-5	20	0.7	NR	20	NR
Benzo(a)anthracene (1,2-Benzanthracene)	56-55-3	0.1	0.8	0.71	1	2
Benzo(a)pyrene	50-32-8	0.1	0.2	NA <sup>1</sup>	0.1	NA <sup>1</sup>
Benzo(b)fluoranthene (3,4-Benzofluoranthene)	205-99-2	0.2	2	NA <sup>1</sup>	1	NA <sup>1</sup>
Benzo(ghi)perylene	191-24-2	NA	NA	NR	NA	NR
Benzo(k)fluoranthene	207-08-9	0.5	25	NA <sup>1</sup>	0.8	$NA^1$

Beryllium	Contaminant	CAS No.	Ground Water Remediation Standard (ug/)	Soil Screening Level  Migration to Ground  Water Exposure  Pathway  2013  mg/kg	Soil Remediation Standard  Migration to Ground Water Exposure Pathway 2021 mg/kg	Soil Leachate Screening Level  Migration to Ground Water Exposure Pathway  2013  ug/l	Soll Leachate Remediation Standard  Migration to Ground Water Exposure Pathway  2021  ug/l
1.1* Biplemy    92-524   400   140   NA¹   6,000   NA²     Big2-chlorethowyhethane   111-911   NA   NR   NA²   NR   NA²     Big2-chlorethylpether   111-444   7   0.2   0.33	Pondlium	7440 41 7	1				
Bis(2-chloroethoxy)methane         111-91-1         NA         NR         NA*         NR         NA*           Bis(2-chloroethyl)ether         111-44-4         7         0.2         0.33*         7         140         60           Bromodichloromethane         117-81-7         3         1,200         14         40         60         60           Bromoform         75-27-4         1         0.005         0.0050*         12         20         10         10         10         10         12         20         10         10         10         10         12         20 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>							
Bis(2-chronestly)lether         111-44.4         7         0.2         0.33 *         7         140           Bis(2-chrytheyylphthalate         117-81-7         3         1,200         14         40         60           Bis(2-chrytheyylphthalate         117-81-7         3         1,200         14         40         60           Bromondchnormomethane         75-27-4         1         0.005         0.0050 *         12         20           Bromondchnormomethane         75-27-2         4         0.03         0.018         80         80           Bromonethane (Methyl bromide)         74-83-9         1.0         0.04         0.043         200         200         200           2-Butanone (Methyl ethyl ketone) (MEK)         78-93-3         300         0.9         0.98         6,600         6,600           Burylberxyl phthalate         85-68-7         100         230         29         2,000         2,000           Cadmium         74-03-39         4         2         1.9         80         80           Cadmium         75-78-8         5,000         12         16         70,000         80,000           Carbarolestam         105-60-2         5,000         12         16 <td>· · · · ·</td> <td></td> <td></td> <td></td> <td></td> <td>·</td> <td></td>	· · · · ·					·	
Bis/2-ethylhexyliphthalate   117-81-7   3   1,200   14   40   60							
Bromodichloromethane   75-27-4   1			·				
(Dichlorboromomethane)	. , , , , , ,	117-81-7	3	1,200	14	40	60
Dichiorborkommentane  Semonform   77-25-2		75-27-4	1	0.005	0.0050 4	12	20
Bromomethane (Methyl bromide)   74-83-9   10   0.04   0.043   200   200	,			0.00			20
2-Butanone (Methyl ethyl ketone) (MEK)			·				
Butylbenzyl phthalate	·						
Cadmium         7440-43-9         4         2         1.9         80         80           Caprolactam         105-60-2         5,000         12         16         70,000         80,000           Carbazole         86-74-8         NA         NA         NR         NA         NR           Carbon disulfide         75-15-0         700         6         3.7         14,000         14,000           Carbon tetrachloride         56-23-5         1         0.005         0.0075         8         20           Chlordane (alpha and gamma forms summed)         57-74-9         0.5         0.05         1.4         0.5         10           4-Chloroaniline         106-47-8         30         NR         0.23         NR         600           Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chloropthrane (Ethyl chloride)         75-00-3         NA         <							
Caprolactam         105-60-2         5,000         12         16         70,000         80,000           Carbazole         86-74-8         NA         NA         NR         NA         NR           Carbon disulfide         75-15-0         700         6         3.7         14,000         14,000           Carbon tetrachloride         56-23-5         1         0.005         0.0075         8         20           Chlordane (alpha and gamma forms summed)         57-74-9         0.5         0.05         1.4         0.5         10           4-Chloroaniline         106-47-8         30         NR         0.23         NR         600           4-Chloroaniline         108-90-7         50         0.6         0.64         1,000         1,000           Chlorothane (Ethyl chloride)         75-00-3         NA         NA         NA         NA         NA         NA           Chlorothane (Ethyl chloride)         74-87-3         NA         NA         NA         NA         NA         NA         NA           Chlorothane (Methyl chloride)         74-87-3         NA         NA         NA         NA         NA         NA         NA         NA         NA           Chlorom	, , ,					,	,
Carbazole         86-74-8         NA         NA         NR         NA         NR           Carbon disulfide         75-15-0         700         6         3.7         14,000         14,000           Carbon tetrachloride         56-23-5         1         0.005         0.0075         8         20           Chlordane (alpha and gamma forms summed)         57-74-9         0.5         0.05         1.4         0.5         10           4-Chloroaniline         106-47-8         30         NR         0.23         NR         600           Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chloroethane (Ethyl chloride)         75-00-3         NA         NA         NA*         NA*         NA			·				
Carbon disulfide         75-15-0         700         6         3.7         14,000         14,000           Carbon tetrachloride         56-23-5         1         0.005         0.0075         8         20           Chlordane (alpha and gamma forms summed)         57-74-9         0.5         0.05         1.4         0.5         10           4-Chloroaniline         106-47-8         30         NR         0.23         NR         600           Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chlorofethane (Ethyl chloride)         75-00-3         NA         NA         NA         NA         NA           Chloroferm         67-66-3         70         0.4         0.33         1,400         1,400           Chloromethane (Methyl chloride)         74-87-3         NA         NA         NA         NA         NA           2-Chlorophenol (o-Chlorophenol)         95-57-8         40         0.8         0.76         800         800           Chysene         218-01-9         5         80         NA         NA         <	•		,			,	
Carbon tetrachloride         56-23-5         1         0.005         0.0075         8         20           Chlordane (alpha and gamma forms summed)         57-74-9         0.5         0.05         1.4         0.5         10           4-Chloroaniline         106-47-8         30         NR         0.23         NR         600           Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chlorobethane (Ethyl chloride)         75-00-3         NA         NA         NA²         NA         NA         NA²           Chloromethane (Methyl chloride)         74-87-3         NA							
Chlordane (alpha and gamma forms summed) 57-74-9 0.5 0.05 1.4 0.5 10 10 4-Chloroaniline 106-47-8 30 NR 0.23 NR 600 100 100 1000 1000 1000 1000 1000 1				-		,	·
4-Chloroaniline 106-47-8 30 NR 0.23 NR 600 1,000 1,000 Chlorobenzene 108-90-7 50 0.6 0.64 1,000 1,000 1,000 Chloroethane (Ethyl chloride) 75-00-3 NA	Carbon tetrachloride	56-23-5	1	0.005	0.0075	8	20
Chlorobenzene         108-90-7         50         0.6         0.64         1,000         1,000           Chloroethane (Ethyl chloride)         75-00-3         NA         NA <td>Chlordane (alpha and gamma forms summed)</td> <td>57-74-9</td> <td>0.5</td> <td>0.05</td> <td>1.4</td> <td>0.5</td> <td>10</td>	Chlordane (alpha and gamma forms summed)	57-74-9	0.5	0.05	1.4	0.5	10
Chloroethane (Ethyl chloride)         75-00-3         NA         NA         NA         NAS         NA         NAS           Chloroform         67-66-3         70         0.4         0.33         1,400         1,400           Chloromethane (Methyl chloride)         74-87-3         NA         NA         NA         NAS         NA	4-Chloroaniline	106-47-8	30	NR	0.23	NR	600
Chloroform         67-66-3         70         0.4         0.33         1,400         1,400           Chloromethane (Methyl chloride)         74-87-3         NA         NA         NA         NA <sup>5</sup> NA         NA           2-Chloronaphthalene         91-58-7         600         NR         NA <sup>1</sup> NR         NA           2-Chlorophenol (o-Chlorophenol)         95-57-8         40         0.8         0.76         800         800           Chrysene         218-01-9         5         80         NA <sup>1</sup> 2         NA <sup>1</sup> Cobalt (total)         7440-48-4         100         90         90         2,000         2,000           Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA <sup>5</sup> NR         NA <sup>5</sup> 4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2         2           4,4'-DDT (DE)         72-55-9         0.1         18         0.47         2	Chlorobenzene	108-90-7	50	0.6	0.64	1,000	1,000
Chloromethane (Methyl chloride)         74-87-3         NA         NA         NA         NAS         NA         NAS           2-Chloronaphthalene         91-58-7         600         NR         NA¹         NR         NA¹           2-Chlorophenol (o-Chlorophenol)         95-57-8         40         0.8         0.76         800         800           Chrysene         218-01-9         5         80         NA¹         2         NA¹           Cobalt (total)         7440-48-4         100         90         90         2,000         2,000           Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA⁵         NR         NA⁵           4,4'-DDE (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2           4,4'-DDT (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2	Chloroethane (Ethyl chloride)	75-00-3	NA	NA	NA <sup>5</sup>	NA	NA <sup>5</sup>
2-Chloronaphthalene         91-58-7         600         NR         NA¹         NR         NR         NA¹           2-Chlorophenol (o-Chlorophenol)         95-57-8         40         0.8         0.76         800         800           Chrysene         218-01-9         5         80         NA¹         2         NA¹           Cobalt (total)         7440-48-4         100         90         90         2,000         2,000           Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA⁵         NR         NA⁵           4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2         2	Chloroform	67-66-3	70	0.4	0.33	1,400	1,400
2-Chlorophenol (o-Chlorophenol)       95-57-8       40       0.8       0.76       800       800         Chrysene       218-01-9       5       80       NA¹       2       NA¹         Cobalt (total)       7440-48-4       100       90       90       2,000       2,000         Copper (total)       7440-50-8       1,300       11,000       910       26,000       26,000         Cyanide       57-12-5       100       20       20       2,000       2,000         Cyclohexane       110-82-7       NA       NR       NA⁵       NR       NA NR         4,4'-DDD (p,p'-TDE)       72-54-8       0.1       4       0.47       2       2         4,4'-DDE (p,p'-DDX)       72-55-9       0.1       18       0.47       2       2       2         4,4'-DDT       50-29-3       0.1       11       0.67       2       2       2	Chloromethane (Methyl chloride)	74-87-3	NA	NA	NA <sup>5</sup>	NA	NA <sup>5</sup>
2-Chlorophenol (o-Chlorophenol)       95-57-8       40       0.8       0.76       800       800         Chrysene       218-01-9       5       80       NA¹       2       NA¹         Cobalt (total)       7440-48-4       100       90       90       2,000       2,000         Copper (total)       7440-50-8       1,300       11,000       910       26,000       26,000         Cyanide       57-12-5       100       20       20       2,000       2,000         Cyclohexane       110-82-7       NA       NR       NA⁵       NR       NA NR         4,4'-DDD (p,p'-TDE)       72-54-8       0.1       4       0.47       2       2         4,4'-DDE (p,p'-DDX)       72-55-9       0.1       18       0.47       2       2       2         4,4'-DDT       50-29-3       0.1       11       0.67       2       2       2	2-Chloronaphthalene	91-58-7	600	NR	$NA^1$	NR	NA <sup>1</sup>
Chrysene         218-01-9         5         80         NA¹         2         NA¹           Cobalt (total)         7440-48-4         100         90         90         2,000         2,000           Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA⁵         NR         NR         NA⁵           4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2         2	2-Chlorophenol (o-Chlorophenol)	95-57-8	40	0.8		800	
Cobalt (total)         7440-48-4         100         90         90         2,000         2,000           Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA <sup>5</sup> NR         NA           4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2         2	, ,						
Copper (total)         7440-50-8         1,300         11,000         910         26,000         26,000           Cyanide         57-12-5         100         20         20         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA <sup>5</sup> NR         NA           4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2         2	<u> </u>						
Cyanide         57-12-5         100         20         20         2,000         2,000         2,000           Cyclohexane         110-82-7         NA         NR         NA <sup>5</sup> NR         NR         NA <sup>5</sup> 4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2         2							'
Cyclohexane         110-82-7         NA         NR         NA <sup>5</sup> NR         NA           4,4'-DDD (p,p'-TDE)         72-54-8         0.1         4         0.47         2         2           4,4'-DDE (p,p'-DDX)         72-55-9         0.1         18         0.47         2         2           4,4'-DDT         50-29-3         0.1         11         0.67         2         2			,				·
4,4'-DDD (p,p'-TDE)     72-54-8     0.1     4     0.47     2     2       4,4'-DDE (p,p'-DDX)     72-55-9     0.1     18     0.47     2     2       4,4'-DDT     50-29-3     0.1     11     0.67     2     2						,	·
4,4'-DDE (p,p'-DDX)       72-55-9       0.1       18       0.47       2       2         4,4'-DDT       50-29-3       0.1       11       0.67       2       2	,						
4,4'-DDT 50-29-3 0.1 11 0.67 2 2	7 471 7						
Dibenz(a,h)anthracene 53-70-3 0.3 0.8 NA <sup>1</sup> 0.3 NA <sup>1</sup>	Dibenz(a,h)anthracene		-		NA <sup>1</sup>		NA <sup>1</sup>

Contaminant	CAS No.	Ground Water Remediation Standard (ug/)	Soil Screening Level  Migration to Ground  Water Exposure  Pathway  2013	Soil Remediation Standard  Migration to Ground Water Exposure Pathway 2021	Soil Leachate Screening Level  Migration to Ground Water Exposure Pathway  2013	Soll Leachate Remediation Standard  Migration to Ground Water Exposure Pathway  2021
			mg/kg	mg/kg	ug/l	ug/l
(Chlorodibromomethane)	124-48-1	1	0.005	0.0050 4	8	20
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.005	0.0050 4	0.4	0.4
1,2-Dibromoethane (Ethylene dibromide)	106-93-4	0.03	0.005	0.0050	0.03	0.6
1,2-Dichlorobenzene (o-Dichlorobenzene)	95-50-1	600	17	11	12,000	12,000
,					,	·
1,3-Dichlorobenzene (m-Dichlorobenzene)	541-73-1	600	19	11	12,000	12,000
1,4-Dichlorobenzene (p-Dichlorobenzene)	106-46-7	75	2	1.4	1,500	1,500
3,3'-Dichlorobenzidine	91-94-1	30	0.2	3.9	30	600
Dichlorodifluoromethane (Freon 12)	75-71-8	1,000	39	38	20,000	20,000
1,1-Dichloroethane	75-34-3	50	0.2	0.24	1,000	1,000
1,2-Dichloroethane	107-06-2	2	0.005	0.0095	6	40
1,1-Dichloroethene (1,1-Dichloroethylene)	75-35-4	1	0.008	0.0069	20	20
1,2-Dichloroethene (cis) (c-1,2-Dichloroethylene)	156-59-2	70	0.3	0.35	1,400	1,400
1,2-Dichloroethene (trans) (t-1,2-Dichloroethylene)	156-60-5	100	0.6	0.56	2,000	2,000
2,4-Dichlorophenol	120-83-2	20	0.2	0.19	400	400
1,2-Dichloropropane	78-87-5	1	0.005	0.0058	10	20
1,3-Dichloropropene (total)	542-75-6	1	0.005	0.0063	8	20
Dieldrin	60-57-1	0.03	0.003	0.024	0.04	0.6
Diethylphthalate	84-66-2	6,000	88	44	120,000	120,000
2,4-Dimethylphenol	105-67-9	100	1	2.3	2,000	2,000
Di-n-butyl phthalate	84-74-2	700	760	NA <sup>1</sup>	11,000	$NA^1$
4,6-Dinitro-2-methylphenol	534-52-1	1	0.3	NR	14	NR
2,4-Dinitrophenol	51-28-5	40	0.3	0.33 4	200	800
2,4-Dinitrotoluene	121-14-2	NA	NA	NR	NA	NR
2,6 -Dinitrotoluene	606-20-2	NA	NA	NR	NA	NR
2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture)	25321-14-6	10	0.2	0.27	10	200
Di-n-octyl phthalate	117-84-0	100	3300	NA <sup>1</sup>	20	NA <sup>1</sup>
1,4-Dioxane	123-91-1	10	NR	0.067 <sup>(4)</sup>	NR	8
1,2-Diphenylhydrazine	122-66-7	20	0.7	NR	20	NR

Contaminant	Ground Water - CAS No. Remediation Standard (ug/)	Soil Screening Level  Migration to Ground  Water Exposure	Soil Remediation Standard  Migration to Ground Water Exposure	Soil Leachate Screening Level  Migration to Ground Water  Exposure Pathway	Soll Leachate Remediation Standard  Migration to Ground Water Exposure Pathway	
			Pathway 2013	Pathway 2021	2013	2021
			mg/kg	mg/kg	ug/l	ug/l
Endosulfan I and Endosulfan II (alpha and beta) (summed)	115-29-7	40	4	NA <sup>1</sup>	510	NA <sup>1</sup>
Endosulfan sulfate	1031-07-8	40	2	NR	800	NR
Endrin	72-20-8	2	1	1.6	40	40
Ethylbenzene	100-41-4	700	13	15	14,000	14,000
Extractable Petroleum Hydrocarbons (No. 2 Fuel Oil and Diesel)	various	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
Extractable Petroleum Hydrocarbons (Other)	various	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
Fluoranthene	206-44-0	300	1300	NA <sup>1</sup>	210	NA <sup>1</sup>
Fluorene	86-73-7	300	170	NA <sup>1</sup>	2,000	NA <sup>1</sup>
alpha-HCH (alpha-BHC)	319-84-6	0.02	0.002	0.0023	0.1	0.4
beta-HCH (beta-BHC)	319-85-7	0.04	0.002	0.0046	0.4	0.8
Heptachlor	76-44-8	0.05	0.5	0.083	0.2	1
Heptachlor epoxide	1024-57-3	0.2	0.01	0.081	0.2	4
Hexachlorobenzene	118-74-1	0.02	0.2	0.17 4	0.4	0.4
Hexachloro-1,3-butadiene	87-68-3	1	0.9	0.17 4	8	20
Hexachlorocyclopentadiene	77-47-4	40	320	2.5	800	800
Hexachloroethane	67-72-1	7	0.2	0.17 4	40	140
n-Hexane	110-54-3	30	NR	5.5	NR	600
2-Hexanone	591-78-6	300	NR	0.15	NR	800
Indeno(1,2,3-cd)pyrene	193-39-5	0.2	7	NA <sup>1</sup>	0.2	NA <sup>1</sup>
Isophorone	78-59-1	40	0.2	0.23	800	800
Isopropylbenzene	98-82-8	700	NR	22	NR	14,000
Lead (total)	7439-92-1	5	90	90	100	100
Lindane (gamma-HCH)(gamma-BHC)	58-89-9	0.03	0.002	0.0035	0.6	0.6
Manganese (total)	7439-96-5	NA	65	NA <sup>2</sup>	1,000	NA <sup>2</sup>
Mercury (total)	7439-97-6	2	0.1	0.10 4	40	40
Methoxychlor	72-43-5	40	160	NA <sup>1</sup>	45	NA <sup>1</sup>
Methyl acetate	79-20-9	7,000	22	22	140,000	140,000
Methylene chloride (Dichloromethane)	75-09-2	3	0.01	0.013	60	60
2-Methylnaphthalene	91-57-6	30	8	3.1	600	600
4-Methyl-2-pentanone (MIBK)	108-10-1	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
2-Methylphenol (o-cresol)	95-48-7	50	NA	0.77	NA	1,000

Contaminant	CAS No.	Ground Water Remediation Standard	Soil Screening Level  Migration to Ground	Soil Remediation Standard Migration to Ground	Soil Leachate Screening Level  Migration to Ground Water	Soll Leachate Remediation Standard  Migration to Ground Water
Contamilant	CAS IVO.	(ug/)	Water Exposure	Water Exposure	Exposure Pathway	Exposure Pathway
		( 3/ )	Pathway 2013	Pathway 2021	2013	, ,
			mg/kg	mg/kg	2013 ug/l	2021 ug/l
4-Methylphenol (p-cresol)	106-44-5	50	NA	0.75	ug/i NA	1,000
Methyl tert-butyl ether (MTBE)	1634-04-4	70	0.2	0.75	1,400	1,400
Naphthalene	91-20-3	300	25	19	6,000	6,000
Nickel (total)	7440-02-0	100	48	48	2,000	2,000
2-Nitroaniline	88-74-4	NA NA	NA	NR	NA	NR
4-Nitroaniline	100-01-6	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
Nitrobenzene	98-95-3	6	0.2	0.17 4	80	120
N-Nitrosodimethylamine	62-75-9	0.8	0.7	NR	0.8	NR NR
N-Nitrosodi-n-propylamine	621-64-7	10	0.2	0.17 4	10	200
	86-30-6	10	0.4		140	200
N-Nitrosodiphenylamine	108-60-1	300	5	1.1 1.9	6,000	6,000
2,2'-oxybis(1-chloropropane)	ł — — — — — — — — — — — — — — — — — — —				,	, ,
Pentachlorophenol	87-86-5	0.3	0.3	0.33 4	6	6
Phenanthrene	85-01-8	NA	NA	NR	NA	NR
Phenol (202)	108-95-2	2,000	8	21	40,000	40,000
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.2	1.6	0.5	10
Pyrene	129-00-0	200	840	NA <sup>1</sup>	140	NA <sup>1</sup>
Selenium (total)	7782-49-2	40	11	11	800	800
Silver (total)	7440-22-4	40	1	0.50 4	800	800
Styrene	100-42-5	100	3	2.1	2,000	2,000
Tertiary butyl alcohol (TBA)	75-65-0	100	0.3	0.32	2,000	2,000
1,2,4,5-Tetrachlorobenzene	95-94-3	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.00001	NR	0.00010 <sup>(6)</sup>	NR	0.00020 <sup>(6)</sup>
1,1,2,2-Tetrachloroethane	79-34-5	1	0.007	0.0069	20	20
Tetrachloroethene (PCE) (Tetrachloroethylene)	127-18-4	1	0.005	0.0086	8	20
2,3,4,6-Tetrachlorophenol	58-90-2	200	NR	26	NR	4,000
Thallium	7440-28-0	10	3	NR	10	NR
Toluene	108-88-3	600	7	7.8	12,000	12,000
Toxaphene	8001-35-2	0.03	0.3	6.2	2	40
1,2,4-Trichlorobenzene	120-82-1	9	0.7	0.52	180	180
1,1,1-Trichloroethane	71-55-6	30	0.3	0.2	600	600
1,1,2-Trichloroethane	79-00-5	3	0.02	0.017	60	60
Trichloroethene (TCE) (Trichloroethylene)	79-01-6	1	0.01	0.0065	20	20
Trichlorofluoromethane (Freon 11)	75-69-4	2,000	34	29	40,000	40,000

Contaminant		Ground Water	Soil Screening Level	Soil Remediation Standard	Soil Leachate Screening Level	Soll Leachate Remediation Standard
	CAS No.	Remediation Standard (ug/)	Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway	Migration to Ground Water Exposure Pathway
			2013	2021	2013	2021
			mg/kg	mg/kg	ug/l	ug/l
2,4,5-Trichlorophenol	95-95-4	700	68	68	14,000	14,000
2,4,6-Trichlorophenol	88-06-2	20	0.2	0.86	20	400
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon TF)	76-13-1	20,000	NR	NA <sup>1</sup>	NR	NA1
1,2,4-Trimethylbenzene	95-63-6	NA	NR	NA <sup>5</sup>	NR	NA <sup>5</sup>
Vanadium (total)	7440-62-2	NA	NA	NA <sup>5</sup>	NA	NA <sup>5</sup>
Vinyl chloride	75-01-4	1	0.005	0.0067	2	20
Xylenes (total)	1330-20-7	1,000	19	19	20,000	20,000
Zinc (total)	7440-66-6	2,000	930	930	40,000	40,000

NA = Standard not available/not applicable

NR = Compound not regulated

- 1 Standard not applicable because criterion is above soil saturation limit
- 2 Standard not applicable because drinking water MCL is a secondary standard
- 3 Standard is based on natural background
- 4 Standard set to soil reporting limit
- 5 Ground Water Remediation Standard not available
- 6 This standard is used for comparison to site soil or soil leachate data that have been converted to sample-specific TCDD-TEQ values through application of the Toxicity Equivalence Factor Methodology (USEPA 2010) and using the WHO 2005 Mammalian Toxic Equivalency Factors (TEFs).

### Summary of Comparison of Soil Screening Levels and Soil Remediation Standards for the Migration to Ground Water Exposure Pathway

2013 soil screening level existed but no 2021 soil remediation standard was adopted	15		
		8	2013 numeric soil screening level existed
		7	2013 soil screening level was "NA"
2021 soil remediation standard adopted but no 2013 soil screening level existed	17		
		7	2021 numeric soil remediation standard adopted
		10	2021 adopted soil remediation standard is "NA"
			(9 have no ground water quality standard; 1 is above soil saturation level)
2013 soil screening level existed and 2021 soil remediation standard was adopted	121		<u> </u>
		4	2013 soil screening level was "NA "and 2021 adopted soil remediation standard is "NA" (no ground water quality standard exists)
		2	2013 soil screening level was "NA" and a 2021 numeric soil remediation standard was adopted
		18	2013 numeric soil screening level existed but 2021 adopted soil remediation standard is "NA"
			(16 above soil saturation level; 2 only have secondary ground water quality standards)
		40*	2021 adopted numeric soil remediation standard is less than the former 2013 soil screening level
			34 Difference is less than an order of magnitude
			5 Difference is an order of magnitude or greater
		18	2021 adopted numeric soil remediation standard is equal to the former 2013 soil screening level
		39	2021 adopted numeric soil remediation standard is greater than the former 2013 soil screening level

<sup>\*40</sup> b/c of 2'2-oxybis(1-chloropropane)

### Summary of Comparison of Soil Leachate Screening Levels and Soil Leachate Remediation Standards for the Migration to Ground Water Exposure Pathway

2013 soil leachate screening level existed but no 2021 soil leachate remediation standard was 15 adopted 8 2013 numeric soil leachate screening level existed 7 2013 soil leachate screening level was "NA" 2021 soil leachate remediation standard adopted 17 but no 2013 soil leachate screening level existed 7 2021 numeric soil leachate remediation standard 10 2021 soil leachate remediation standard is "NA" (8 have no ground water quality standard; 2 are above soil saturation level) 2013 soil leachate screening level existed and a 2021 soil leachate remediation standard was 121 adopted 2013 soil leachate screening level was "NA "and 2021 adopted soil leachate remediation standard is "NA" 4 (no ground water quality standard exists) 2 2013 soil leachate screening level was "NA" and a 2021 numeric soil leachate remediation standard was adopted 18 2013 numeric soil leachate screening level existed but 2021 adopted soil leachate remediation standard is "NA" (16 above soil saturation level; 2 only have a secondary ground water quality standard) 0 2021 adopted numeric soil leachate remediation standard is less than the 2013 soil leachate screening level 64 2021 adopted numeric soil leachate remediation standard is equal to the 2013 soil leachate screening level 33 2021 adopted numeric soil leachate remediation standard is greater than the 2013 soil leachate screening level (adopted soil leachate remediation standard based on PQL-based Ground Water Quality Standard and not the health based criteria)

#### Order of Magnitude Contaminants - Soil - Migration to Ground Water Exposure Pathway

Contaminant	CAS#	2013 Soil screening level for the former impact to ground water soil exposure pathway (mg/kg)	2021 Soil remediation standard for the migration to ground water exposure pathway (mg/kg)
Bis(2-ethylhexyl)phthalate	117-81-7	1,200	14
Copper (total)	7440-50-8	11,000	910
4,4'-DDE (p,p'-DDX)	72-55-9	18	0.47
4,4'-DDT	50-29-3	11	0.67
Hexachlorocyclopentadiene	77-47-4	320	2.5

## Order of Magnitude Contaminants - Soil Leachate - Migration to Ground Water Exposure Pathway

Contaminant	CAS#	2013 Soil leachate screening level for the former impact to ground water soil exposure pathway (mg/kg)	2021 Soil leachate remediation standard for the migration to ground water exposure pathway (mg/kg)
NONE			