

US EPA ARCHIVE DOCUMENT

stituent-Specific Exit Level Development Using MCL-Based Numbers

CASNUM	NAME	WW Totals (mg/l)	
		Multipath Modeled Exit Level	Groundwater Modeled Exit Level
83-32-9	Acenaphthene	49.5	31.2
208-96-8	Acenaphthylene		
67-64-1	Acetone	232000	15.6
75-05-8	Acetonitrile	6.58	0.78
98-86-2	Acetophenone	5960	16.8
75-36-5	Acetyl chloride		
591-08-2	Acetyl-2-thiourea, 1-		
53-96-3	Acetylaminofluorene, 2-		
107-02-8	Acrolein	0.00248	
79-06-1	Acrylamide	3.67	0.00026
107-13-1	Acrylonitrile	0.00428	0.0011
1402-68-2	Aflatoxins		
116-06-3	Aldicarb		
309-00-2	Aldrin	0.0000006	0.00469
107-18-6	Allyl alcohol		
107-05-1	Allyl chloride	0.0742	
92-67-1	Aminobiphenyl, 4-		
2763-96-4	Aminomethyl-3-isoxazolol, 5-		
504-24-5	Aminopyridine, 4-		
61-82-5	Amitrole		
62-53-3	Aniline	0.444	0.053
120-12-7	Anthracene		
7440-36-0	Antimony	8210	0.136
140-57-8	Aramite		
7440-38-2	Arsenic	40.5	0.384
2465-27-2	Auramine		
115-02-6	Azaserine		
7440-39-3	Barium		28
71-43-2	Benzene	0.0209	0.0295
92-87-5	Benzidine	0.00015	0.00000224
106-51-4	Benzoquinone, p-		
98-07-7	Benzotrichloride		
50-32-8	Benzo(a)pyrene	0.00231	1.88
205-99-2	Benzo(b)fluoranthene	0.000805	0.0164
205-82-3	Benzo(j)fluoranthene		
207-08-9	Benzo(k)fluoranthene		
191-24-2	Benzo[g,h,i]perylene		
100-51-6	Benzyl alcohol	22500	39
100-44-7	Benzyl chloride	1.13	3.9
56-55-3	Benz(a)anthracene	0.0138	0.000717
225-51-4	Benz[c]acridine		
7440-41-7	Beryllium	10.1	0.000827
39638-32-9	Bis (2-chloroisopropyl) ether	0.569	0.007

111-44-4	Bis(2-chlorethyl)ether	0.00141	0.000648
117-81-7	Bis(2-ethylhexyl)phthalate	0.00044	1260
542-88-1	Bis(chloromethyl) ether		
598-31-2	Bromoacetone		
75-27-4	Bromodichloromethane	33.3	0.00854
75-25-2	Bromoform (Tribromomethane)	0.178	0.064
101-55-3	Bromophenyl phenyl ether, 4-		
357-57-3	Brucine		
71-36-3	Butanol	38600	15.6
88-85-7	Butyl-4,6-dinitrophenol, 2-sec- (Dinoseb)	15.4	0.0336
85-68-7	Butylbenzylphthalate	235	437
7440-43-9	Cadmium	1600	0.038
86-74-8	Carbazole		
75-15-0	Carbon disulfide	0.738	18.4
353-50-4	Carbon oxyfluoride		
56-23-5	Carbon tetrachloride	0.0115	0.1
75-87-6	Chloral		
305-03-3	Chlorambucil		
57-74-9	Chlordane	0.000014	24
494-03-1	Chlornaphazin		
126-99-8	Chloro-1,3-butadiene, 2- (Chloroprene)	0.515	
107-20-0	Chloroacetaldehyde		
106-47-8	Chloroaniline, p-	517	0.42
108-90-7	Chlorobenzene	1.5	0.68
510-15-6	Chlorobenzilate	0.0731	0.054
124-48-1	Chlorodibromomethane	16.3	0.0066
75-00-3	Chloroethane (ethyl chloride)		
110-75-8	Chloroethyl vinyl ether, 2-		
67-66-3	Chloroform	0.00759	0.057
59-50-7	Chloro-m-cresol, p-		
107-30-2	Chloromethyl methyl ether		
91-58-7	Chloronaphthalene, 2-		
95-57-8	Chlorophenol, 2-	134	0.9
7005-72-3	Chlorophenyl phenyl ether, 4-		
5344-82-1	Chlorophenyl thiourea, 1-o-		
542-76-7	Chloropropionitrile, 3-		
7440-47-3	Chromium	1300	0.618
218-01-9	Chrysene	1.32	0.1
6358-53-8	Citrus red No. 2		
7440-48-4	Cobalt		
7440-50-8	Copper	674	2790
108-39-4	Cresol, m-	615	8.4
95-48-7	Cresol, o-	656	8.4
106-44-5	Cresol, p-	63.5	0.84
4170-30-3	Crotonaldehyde		
57-12-5	Cyanide		
14901-08-7	Cycasin		
108-94-1	Cyclohexanone		
131-89-5	Cyclohexyl-4,6-dinitrophenol, 2-		
50-18-0	Cyclophosphamide		
20830-81-3	Daunomycin		
72-54-8	DDD	0.000126	913000
53-19-0	DDD (o,p')		
72-55-9	DDE	0.0000091	0.228

3424-82-6	DDE (o,p')		
50-29-3	DDT	0.0000181	20.4
789-02-6	DDT (o,p')		
2303-16-4	Diallate	0.26	90.1
132-64-9	Dibenzofuran		
192-65-4	Dibenzo[a,e]pyrene		
189-64-0	Dibenzo[a,h]pyrene		
189-55-9	Dibenzo[a,i]pyrene		
194-59-2	Dibenzo[c,g]carbazole, 7H-		
226-36-8	Dibenz(a,h)acridine		
53-70-3	Dibenz(a,h)anthracene	0.0000084	0.00176
224-42-0	Dibenz[a,j]acridine		
96-12-8	Dibromo-3-chloropropane, 1,2-	0.0723	0.0022
764-41-0	Dichloro-2-butene, 1,4-		
110-57-6	Dichloro-2-butene, trans-1,4-		
96-23-1	Dichloro-2-propanol, 1,3-		
95-50-1	Dichlorobenzene, 1,2-	15.4	7.8
541-73-1	Dichlorobenzene, 1,3-		
106-46-7	Dichlorobenzene, 1,4-	3.01	1.12
91-94-1	Dichlorobenzidine, 3,3'-	0.0037	0.0042
75-71-8	Dichlorodifluoromethane	14.7	35.7
75-34-3	Dichloroethane, 1,1-	37.4	0.00016
107-06-2	Dichloroethane, 1,2-	0.00698	0.0475
75-35-4	Dichloroethylene, 1,1-	0.00345	0.0413
156-59-2	Dichloroethylene, cis-1,2-	30000	0.294
156-60-5	Dichloroethylene, trans-1,2-	44200	0.42
111-91-1	Dichloromethoxy ethane		
98-87-3	Dichloromethylbenzene (benzal chloride)		
120-83-2	Dichlorophenol, 2,4-	6.94	0.62
87-65-0	Dichlorophenol, 2,6-		
94-75-7	Dichlorophenoxyacetic acid, 2,4- (2,4-D)	58.5	0.273
78-87-5	Dichloropropane, 1,2-	0.303	0.115
542-75-6	Dichloropropene, 1,3-	0.00476	0.0028
10061-01-5	Dichloropropene, cis-1,3-	0.00485	90000
10061-02-6	Dichloropropene, trans-1,3-	0.0049	90000
60-57-1	Dieldrin	0.000059	682
1464-53-5	Diepoxybutane, 1,2,3,4- (2,2'-bioxirane)		
84-66-2	Diethyl phthalate	3560	186
311-45-5	Diethyl-p-nitrophenyl phosphate		
56-53-1	Diethylstilbestrol	0.0000008	0.00000043
94-58-6	Dihydrosafrole		
60-51-5	Dimethoate	38.1	29.4
131-11-3	Dimethyl phthalate	200000	78
77-78-1	Dimethyl sulfate		
60-11-7	Dimethylaminoazobenzene, p-		
119-93-7	Dimethylbenzidine, 3,3'-	0.000625	0.0000702
57-97-6	Dimethylbenz(a)anthracene, 7,12-	0.0000038	0.00464
79-44-7	Dimethylcarbamoyl chloride		
122-09-8	Dimethylphenethylamine, alpha, alpha-		
105-67-9	Dimethylphenol, 2,4-	151	3.78
119-90-4	Dimethoxybenzidine, 3,3'-	1.78	0.0336
84-74-2	Di-n-butyl phthalate	883	900
99-65-0	Dinitrobenzene, 1,3-	1.28	0.0168
100-25-4	Dinitrobenzene, 1,4-		

534-52-1	Dinitro-o-cresol, 4,6-		
51-28-5	Dinitrophenol, 2,4-	50.2	0.273
121-14-2	Dinitrotoluene, 2,4-	10.7	0.294
606-20-2	Dinitrotoluene, 2,6-	12.9	0.168
117-84-0	Di-n-octyl phthalate	0.002	1260
123-91-1	Dioxane, 1,4-	558	0.0424
122-39-4	Diphenylamine	29	14.7
122-66-7	Diphenylhydrazine, 1,2-		
298-04-4	Disulfoton	0.0131	458
541-53-7	Dithiobiuret		
115-29-7	Endosulfan	6.62	6
959-98-8	Endosulfan I		
33213-65-9	Endosulfan II		
1031-07-8	Endosulfan sulfate		
145-73-3	Endothall		
72-20-8	Endrin	0.0729	4800
7421-93-4	Endrin aldehyde		
53494-70-5	Endrin ketone		
106-89-8	Epichlorohydrin	0.335	414000
51-43-4	Epinephrine		
110-80-5	Ethoxyethanol, 2-	14.7	39
141-78-6	Ethyl acetate		390
51-79-6	Ethyl carbamate		
107-12-0	Ethyl cyanide (propionitrile)		
60-29-7	Ethyl ether		27.3
97-63-2	Ethyl methacrylate	25500	24
62-50-0	Ethyl methanesulfonate	0.0055	930000
100-41-4	Ethylbenzene	74.5	8.4
106-93-4	Ethylene Dibromide	0.000928	0.018
75-21-8	Ethylene oxide		
96-45-7	Ethylene thiourea	17.7	0.00053
151-56-4	Ethyleneimine (aziridine)		
52-85-7	Famphur		
640-19-7	Fluoracetamide, 2-		
62-74-8	Fluoroacetic acid, sodium salt		
206-44-0	Fluoranthene	1580	27.5
86-73-7	Fluorene	1310	22.4
16984-48-8	Fluoride		
50-00-0	Formaldehyde	0.0158	27.3
64-18-6	Formic Acid		273
765-34-4	Glycidylaldehyde		
319-86-8	HCH, delta-		
76-44-8	Heptachlor	0.0000237	
1024-57-3	Heptachlor epoxide	0.000528	17400
87-68-3	Hexachloro-1,3-butadiene	0.00788	0.0806
118-74-1	Hexachlorobenzene	0.000424	3.6
319-84-6	Hexachlorocyclohexane, alpha- (alpha-BH)	0.000142	21
319-85-7	Hexachlorocyclohexane, beta- (beta-BHC)	0.000445	0.0013
58-89-9	Hexachlorocyclohexane, gamma- (Lindane)	0.000783	340
77-47-4	Hexachlorocyclopentadiene	0.00521	
67-72-1	Hexachloroethane	0.049	0.212
70-30-4	Hexachlorophene	0.0000052	0.0521
1888-71-7	Hexachloropropene		
757-58-4	Hexaethyl tetraphosphate		

591-78-6	Hexanone, 2-		
302-01-2	Hydrazine		
193-39-5	Indeno(1,2,3-cd) pyrene	0.00285	0.0165
74-88-4	Iodomethane		
78-83-1	Isobutyl alcohol	180000	39
465-73-6	Isodrin		
78-59-1	Isophorone	78.6	0.531
120-58-1	Isosafrole		
143-50-0	Kepone	0.0000264	0.00022
303-43-4	Lasiocarpine		
7439-92-1	Lead	907000	30
108-31-6	Maleic anhydride		
123-33-1	Maleic hydrazide		
109-77-3	Malononitrile		
148-82-3	Melphalan		
7439-97-6	Mercury	125	0.0596
126-98-7	Methacrylonitrile	0.0708	0.0156
74-93-1	Methanethiol		
67-56-1	Methanol		78
91-80-5	Methapyrilene		
16752-77-5	Methomyl		
72-43-5	Methoxychlor	6.73	
74-83-9	Methyl bromide (Bromomethane)	0.37	3.12
74-87-3	Methyl chloride (Chloromethane)	0.0959	
78-93-3	Methyl ethyl ketone	141	78
1338-23-4	Methyl ethyl ketone peroxide		
60-34-4	Methyl hydrazine		
108-10-1	Methyl isobutyl ketone	10.3	7.8
80-62-6	Methyl methacrylate	69900	28.2
66-27-3	Methyl methanesulfonate		
91-57-6	Methyl naphthalene, 2-		
298-00-0	Methyl parathion	0.662	78
75-55-8	Methylaziridine, 2-		
56-49-5	Methylcholanthrene, 3-	0.0000099	0.0117
74-95-3	Methylene bromide	11700	0.029
75-09-2	Methylene chloride	0.376	0.039
101-14-4	Methylenebis, 4,4'- (2-chloroaniline)		
70-25-7	Methyl-nitro-nitrosoguanidine (MNNG)		
56-04-2	Methylthiouracil		
50-07-7	Mitomycin C		
7439-98-7	Molybdenum	121000	1.83
91-20-3	Naphthalene	385	14
130-15-4	Naphthoquinone, 1,4-		
86-88-4	Naphthyl-2-thiourea, 1-		
134-32-7	Naphthylamine, 1-		
91-59-8	Naphthylamine, 2-		
7440-02-0	Nickel	5040	4.38
54-11-5	Nicotine and salts		
88-74-4	Nitroaniline, 2-		
99-09-2	Nitroaniline, 3-		
100-01-6	Nitroaniline, 4-		
98-95-3	Nitrobenzene	0.345	0.084
55-86-7	Nitrogen mustard		
51-75-2	Nitrogen mustard hydrochloride salt		

126-85-2	Nitrogen mustard N-Oxide		
302-70-5	Nitrogen mustard N-Oxide, HCl salt		
55-63-0	Nitroglycerine		
99-55-8	Nitro-o-toluidine, 5-		
88-75-5	Nitrophenol, 2-		
100-02-7	Nitrophenol, 4-		
79-46-9	Nitropropane, 2-	0.00019	
56-57-5	Nitroquinoline-1-oxide, 4-		
55-18-5	Nitrosodiethylamine	0.0000406	0.00000318
62-75-9	Nitrosodimethylamine	0.000268	0.0000106
924-16-3	Nitrosodi-n-butylamine	0.000279	0.000122
10595-95-6	Nitrosomethylethylamine	0.129	0.0000212
1116-54-7	N-Nitrosodiethanolamine		
621-64-7	N-Nitrosodi-n-propylamine	0.0644	0.000053
86-30-6	N-Nitrosodiphenylamine	7.54	0.2
4549-40-0	N-Nitrosomethyl vinyl amine		
59-89-2	N-Nitrosomorpholine		
759-73-9	N-Nitroso-N-ethylurea		
684-93-5	N-Nitroso-N-methylurea		
615-53-2	N-Nitroso-N-methylurethane		
16543-55-8	N-Nitrosornicotine		
100-75-4	N-Nitrosopiperidine	0.0106	0.0000106
930-55-2	N-Nitrosopyrrolidine	0.101	0.000212
13256-22-9	N-Nitrososarcosine		
103-85-5	N-Phenylthiourea		
1615-80-1	N,N-Diethylhydrazine		
152-16-9	Octamethylpyrophosphoramidate	7310	0.273
20816-12-0	Osmium tetroxide		
297-97-2	O,O-Diethyl O-pyrazinyl phosphorothioate		
126-68-1	O,O,O-Triethyl phosphorothioate		
123-63-7	Paraldehyde		
56-38-2	Parathion	2.63	440000
608-93-5	Pentachlorobenzene	7.86	5.15
76-01-7	Pentachloroethane		
82-68-8	Pentachloronitrobenzene (PCNB)	13.9	0.27
87-86-5	Pentachlorophenol	0.301	0.00204
62-44-2	Phenacetin		
85-01-8	Phenanthrene		
108-95-2	Phenol	19300	84
62-38-4	Phenyl mercuric acetate	0.506	0.0117
25265-76-3	Phenylenediamines (N.O.S.)		
108-45-2	Phenylenediamine, m-	5440	0.78
106-50-3	Phenylenediamine, p-		
298-02-2	Phorate	0.106	
298-06-6	Phosphorodithioic acid, o-o-diethyl ester		
3288-58-2	Phosphorodithioic acid, o-o-diethyl-s-methyl		
2953-29-9	Phosphorodithioic acid, trimethyl ester		
85-44-9	Phthalic anhydride		
109-06-8	Picoline, 2-		
1336-36-3	Polychlorinated biphenyls	0.000286	11.5
23950-58-5	Pronamide	80.3	21.3
1120-71-4	Propane sultone, 1,3-		
107-10-8	Propylamine, n-		
51-52-5	Propylthiouracil		



107-19-7	Propyn-1-ol, 2-		
129-00-0	Pyrene	3040	54.1
110-86-1	Pyridine	0.522	0.156
50-55-5	Reserpine		
108-46-3	Resorcinol		
81-07-2	Saccharin and salts		
94-59-7	Safrole	0.0829	0.0035
7782-49-2	Selenium	822	0.232
7440-22-4	Silver	199	
18883-66-4	Streptozotocin		
57-24-9	Strychnine	3.34	0.045
100-42-5	Stryene	75.7	0.91
18496-25-8	Sulfide		
1746-01-6	TCDD, 2,3,7,8-	1.05E-009	0.00057
95-94-3	Tetrachlorobenzene, 1,2,4,5-	14.8	0.234
630-20-6	Tetrachloroethane, 1,1,1,2-	0.0241	0.075
79-34-5	Tetrachloroethane, 1,1,2,2-	0.0037	0.024
127-18-4	Tetrachloroethylene	15600	0.0255
58-90-2	Tetrachlorophenol, 2,3,4,6-	2720	1.89
107-49-3	Tetraethyl pyrophosphate		
3689-24-5	Tetraethyldithiopyrophosphate	0.23	
7440-28-0	Thallium (I)	646	0.0353
62-55-5	Thioacetamide		
39196-18-4	Thiofanox		
108-98-5	Thiophenol		
79-19-6	Thiosemicarbazide		
62-56-6	Thiourea		
137-26-8	Thiram		
7440-31-5	Tin		
108-88-3	Toluene	29.8	5.9
584-84-9	Toluene diisocyanate		
95-80-7	Toluenediamine, 2,4-	0.211	0.000159
823-40-5	Toluenediamine, 2,6-		
496-72-0	Toluenediamine, 3,4-		
636-21-5	Toluidine hydrochloride, o-		
95-53-4	Toluidine, o-	0.441	0.00224
106-49-0	Toluidine, p-	0.703	0.00224
8001-35-2	Toxaphene	0.000364	1170
76-13-1	Trichloro-1,2,2-trifluoroethane, 1,1,2-	2210	0.77
120-82-1	Trichlorobenzene, 1,2,4-	0.685	9.31
71-55-6	Trichloroethane, 1,1,1-	73.9	120
79-00-5	Trichloroethane, 1,1,2-	0.0117	0.035
79-01-6	Trichloroethylene	138	0.024
75-69-4	Trichlorofluoromethane	51.4	48
75-70-7	Trichloromethanethiol		
95-95-4	Trichlorophenol, 2,4,5-	38.8	18.1
88-06-2	Trichlorophenol, 2,4,6-	0.1	0.0536
93-76-5	Trichlorophenoxyacetic acid, 2,4,5- (245-T)	15.5	1.68
93-72-1	Trichlorophenoxypropionic acid, 2,4,5- (Silv)	9.72	0.21
96-18-4	Trichloropropane, 1,2,3-	707	1.1
99-35-4	Trinitrobenzene, sym-	3	0.0078
126-72-7	Tris (2,3-dibromopropyl) phosphate	0.000237	0.00252
52-24-4	Tris(1-azridinyl) phosphine sulfide		
72-57-1	Trypan blue		



66-75-1	Uracil mustard		
7440-62-2	Vanadium	15800	9.58
108-05-4	Vinyl acetate		
75-01-4	Vinyl chloride	0.00199	0.0078
81-81-2	Warfarin		
1330-20-7	Xylenes (total)	22.4	88
7440-66-6	Zinc	23200	99

Extrapolated Exit Level	NWW Totals (mg/kg)			NWW Leach (mg/l)			
	WW EQC	Multipath Modeled Exit Level	Extrapolated Exit Level	NWW EQC	Groundwater Modeled Leach Level	Extrapolated Leach Level	WW EQC
	0.0018	9480		0.0742	4.9		0.0018
0.00285	0.02		3.9	0.7		0.00119	0.02
	0.2	17400		0.027	6		0.2
	0.015	923		0.014	0.3		0.015
	0.00158	1210		0.03	6.4		0.00158
0.0241			30.85			0.0115	
0.11775	1		1.66	70		6.4	1
0.02762	0.02		3.28	1		0.00884	0.02
	0.013	2.63		0.075			0.013
	0.01	0.00436		0.1	0.000038		0.01
	0.008	0.961		0.7	0.00034		0.008
14.7			6900			10.5	
0.0069415	0.05		0.194	1		0.54	0.05
	0.000034	0.000444		0.0006	0.0000037		0.000034
39			36700			15	
	0.002	258		0.002			0.002
0.02762	0.02		3.28	1		0.00884	0.02
0.159			19.955			0.105	
0.02762			3.28			0.00884	
0.0069415			0.194			0.54	
	0.00023	4.21		0.0132	0.017		0.00023
0.00285	0.007		3.9	0.5		0.00119	0.007
	0.0008	8.72		2	0.053		0.0008
14.7	0.02		6900	1		10.5	0.02
	0.0005	0.17		0.3031	0.15		0.0005
0.159			19.955			0.105	
0.159			19.955			0.105	
	0.001	2080		0.2	10.8		0.001
	0.00004	109		0.0001	0.009		0.00004
	0.0025	0.0000298		0.042	0.0000007		0.0025
14.7	0.01		6900	0.7		10.5	0.01
0.27			142	0.004		0.033	
	0.000023	0.227		0.0621	0.0036		0.000023
	0.000018	3.7		0.0699	0.0000661		0.000018
0.00285	0.0002		3.9	0.01		0.00119	0.0002
0.00285	0.0002		3.9	0.7		0.00119	0.0002
0.00285	0.0008		3.9	0.7		0.00119	0.0008
	0.00074	2740		0.034	15		0.00074
	0.000005	37.5		0.00276	15		0.000005
	0.000013	0.1		0.0826	0.0000043		0.000013
0.00285	0.0005		3.9	0.03		0.00119	0.0005
	0.0003	0.0591		0.1	0.00032		0.0003
	0.00145	0.944		0.0586	0.0019		0.00145

	0.0003	0.115		0.0651	0.00036		0.0003
	0.00027	225		0.143	0.108		0.00027
0.0241			30.85			0.0115	
0.0241	0.005		30.85	0.03		0.0115	0.005
	0.00008	19		0.0012	0.00252		0.00008
	0.0002	173		0.02	0.018		0.0002
0.0241	0.01		30.85	0.7		0.0115	0.01
0.159	20		19.955			0.105	20
	0.014	18200		0.23	6		0.014
	0.00029	772		0.042	0.0112		0.00029
	0.000042	87		0.049	64		0.000042
	0.00005	14.1		0.2	0.015		0.00005
0.159			19.955			0.105	
	0.00121	330		0.0002	6.4		0.00121
0.0241			30.85			0.0115	
	0.00021	8.54		0.02	0.0115		0.00021
0.27			142			0.033	
0.27			142			0.033	
	0.00004	0.00976		0.0015	0.036		0.00004
0.27			142			0.033	
	0.002	288		0.00099			0.002
0.0241			30.85			0.0115	
	0.00066	142		0.0592	0.16		0.00066
	0.00004	2470		0.0002	0.19		0.00004
	0.00504	6.82		0.069	0.0057		0.00504
	0.00007	27.5		0.00085	0.0018		0.00007
0.0241	0.005		30.85	0.005		0.0115	0.005
0.27			142	0.005		0.033	
	0.00003	6.74		0.002	0.017		0.00003
0.27	0.02		142	1		0.033	0.02
0.0241			30.85	0.005		0.0115	
0.27	0.01		142	0.7		0.033	0.01
	0.00058	104		0.0758	0.32		0.00058
0.0241	0.01		30.85	0.7		0.0115	0.01
0.0241			30.85			0.0115	
0.27	0.1		142	0.5		0.033	0.1
	0.002	9.76		0.003	0.238		0.002
	0.00015	34.6		0.084	0.00119		0.00015
14.7			6900			10.5	
0.618	0.5		8.72	5		0.194	0.5
	0.0007	5.91		0.5	1080		0.0007
	0.00046	21500		0.035	3.2		0.00046
	0.00055	27400		0.027	3.2		0.00055
	0.00046	2550		0.035	0.32		0.00046
7.8	0.06		1210	4		6.2	0.06
0.159	0.2		19.955	0.2		0.105	0.2
14.7			6900			10.5	
7.8	10		1210	10		6.2	10
0.0252	0.1		2.991	7		0.0083	0.1
0.159			19.955			0.105	
14.7			6900			10.5	
	0.00005	0.00648		0.0012	2800		0.00005
0.0069415			0.194			0.54	
	0.000058	0.000936		0.0006	0.0000623		0.000058

0.0069415			0.194			0.54	
	0.000081	0.00315		0.0006	0.0054		0.000081
0.0069415			0.194			0.54	
	0.00063	1.26		0.023	0.46		0.00063
8.4	0.01		27400	0.7		1.8	0.01
0.00285	0.001		3.9	0.7		0.00119	0.001
0.00285	0.0002		3.9	0.01		0.00119	0.0002
0.00285	0.0002		3.9	0.01		0.00119	0.0002
0.00285	0.01		3.9	0.7		0.00119	0.01
0.00285	0.0002		3.9	0.01		0.00119	0.0002
	0.00003	0.000155		0.084	0.0000006		0.00003
0.00285	0.001		3.9	0.7		0.00119	0.001
	0.00026	0.663		0.0003	0.00038		0.00026
0.0241	0.005		30.85	0.005		0.0115	0.005
0.0241	0.005		30.85	0.005		0.0115	0.005
0.27	0.01		142	0.05		0.033	0.01
	0.00003	50000		0.0002	1.62		0.00003
0.0241	0.005		30.85	0.7		0.0115	0.005
	0.00004	63.9		0.0001	0.216		0.00004
	0.0024	0.0524		0.116	0.00072		0.0024
	0.0001	8070		0.0052	11.9		0.0001
	0.00004	24.2		0.0002	0.00006		0.00004
	0.00006	6.1		0.0001	0.009		0.00006
	0.00012	2.55		0.0014	0.0126		0.00012
	0.00012	5400		0.02	0.112		0.00012
	0.00006	13800		0.0006	0.16		0.00006
0.0241	0.01		30.85	0.7		0.0115	0.01
0.0241	0.005		30.85	0.3		0.0115	0.005
	0.00041	769		0.0788	0.18		0.00041
0.0241	0.01		30.85	0.7		0.0115	0.01
	0.00029	3140		0.00011	0.105		0.00029
	0.00004	16.9		0.0001	0.0115		0.00004
	0.0009	32.4		0.0003	0.00085		0.0009
	0.00069	2.64		0.0003	1150		0.00069
	0.00094	2.67		0.0003	1150		0.00094
	0.000044	0.00176		0.0006	0.54		0.000044
14.7	0.005		6900	0.005		10.5	0.005
	0.00025	4490		0.022	54		0.00025
0.159			19.955			0.105	
	0.0078	2.47E-011		1	6.5E-008		0.0078
14.7	0.05		6900	3		10.5	0.05
	0.00029	1.6		0.0691	0.77		0.00029
	0.00064	3		0.013	30		0.00064
0.11775			1.66			6.4	
0.02762	0.01		3.28	0.7		0.00884	0.01
	0.0033	0.00062		0.7	0.000018		0.0033
	0.00037	0.00263		0.039	0.0000028		0.00037
0.27			142			0.033	
0.159	0.05		19.955	3		0.105	0.05
	0.00047	11300		0.052	1.19		0.00047
	0.0077	0.236		7	0.0102		0.0077
	0.00033	90000		0.249	100		0.00033
	0.00011	5.54		0.25	0.0064		0.00011
0.0252	0.04		2.991	3		0.0083	0.04

0.0252	0.05		2.991	3		0.0083	0.05
	0.00042	56.1		0.03	0.105		0.00042
	0.00002	213		0.26	0.112		0.00002
	0.00031	86.3		0.25	0.064		0.00031
	0.000042	4480		0.139	0.1		0.000042
	0.012	13.2		0.0005	0.0136		0.012
	0.00151	11800		0.041	2.6		0.00151
0.159	0.01		19.955	0.7		0.105	0.01
	0.00007	42.6		0.0035	13		0.00007
0.11775			1.66			6.4	
	0.00004	73.1		0.0005	0.94		0.00004
0.0069415	0.0003		0.194	0.009		0.54	0.0003
0.0069415	0.0004		0.194	0.003		0.54	0.0004
0.0069415	0.0004		0.194	0.04		0.54	0.0004
0.0069415	0.1		0.194			0.54	0.1
	0.00039	0.26		0.0036	24		0.00039
0.0069415	0.0005		0.194	0.02		0.54	0.0005
0.0069415	0.0005		0.194	0.03		0.54	0.0005
	0.06519	44		0.0714	5400		0.06519
0.159			19.955			0.105	
	1.16	6900		2.03	15		1.16
	0.009	272000		0.18	114		0.009
14.7	0.05		6900	3		10.5	0.05
0.159	0.1		19.955	0.1		0.105	0.1
	0.00153	41200		0.00319	10.5		0.00153
	0.00345	3420		0.0011	6.6		0.00345
	0.00106	0.00133		0.018	11700		0.00106
	0.00006	550000		0.0002	1.75		0.00006
	0.00006	0.00745		0.0001	0.00075		0.00006
14.7	0.001		6900	0.07		10.5	0.001
		0.51			0.00017		
0.159			19.955			0.105	
0.0069415	0.02		0.194	1		0.54	0.02
0.0241			30.85			0.0115	
0.0069415			0.194			0.54	
	0.00021	5970		0.084	1.74		0.00021
	0.00021	89800		0.08	3.4		0.00021
0	0.05		0			0	0.05
	0.0232	48.8		4	10.5		0.0232
	0.2	301000		10	105		0.2
7.8			1210			6.2	
0.0069415	0.0002		0.194	0.0006		0.54	0.0002
	0.00004	7.79		0.0008			0.00004
	0.000032	0.0264		0.0006	66		0.000032
	0.0001	36.4		0.046	0.00691		0.0001
	0.00161	0.0116		0.0723	0.018		0.00161
	0.000035	0.0333		0.0008	0.11		0.000035
	0.000023	0.12		0.0006	0.00021		0.000023
	0.000025	0.102		0.002	1.98		0.000025
	0.00018	1450		0.092			0.00018
	0.0000016	80.6		0.0206	0.033		0.0000016
	0.207	0.0000241		1.87	0.00136		0.207
0.27	0.01		142	0.7		0.033	0.01
14.7			6900			10.5	

7.8	0.005		1210	0.005		6.2	0.005
0.159			19.955	0.3		0.105	
	0.000043	3.9		0.0748	0.0000241		0.000043
0.0241	0.005		30.85	0.005		0.0115	0.005
	0.011	55200		0.0035	15		0.011
0.0069415	0.02		0.194	1		0.54	0.02
	0.01	743		0.0719	0.162		0.01
14.7	0.01		6900	0.7		10.5	0.01
	0.016	0.000277		0.097	0.000032		0.016
0.159			19.955			0.105	
	0.01	568		2	12		0.01
14.7			6900	0.07		10.5	
0.159	0.05		19.955	3		0.105	0.05
0.159	0.1		19.955	0.5		0.105	0.1
14.7			6900			10.5	
	0.00009	0.598		0.1	0.023		0.00009
	0.009	8.91		0.0005	0.006		0.009
0.11775			1.66			6.4	
	0.021	138000		0.46	30		0.021
0.159	0.1		19.955	7		0.105	0.1
0.0069415	0.05		0.194	3		0.54	0.05
	0.000086	19.4		0.0057			0.000086
	0.00011	504		0.02	0.92		0.00011
	0.00013	90.8		0.02			0.00013
	0.01	112000		0.00834	30		0.01
7.8			1210			6.2	
0.159			19.955			0.105	
	0.00083	17000		0.00315	3		0.00083
	0.005	39500		0.0027	8.1		0.005
0.11775	0.01		1.66	0.7		6.4	0.01
0.00285	0.01		3.9	0.7		0.00119	0.01
	0.01	1.43		0.0691	23.4		0.01
0.159			19.955			0.105	
	0.01	0.000128		0.046	0.0000014		0.01
	0.00024	8400		0.0001	0.0085		0.00024
	0.00026	306		0.02	0.09		0.00026
0.02762			3.28			0.00884	
0.159			19.955			0.105	
0.11775			1.66			6.4	
14.7			6900			10.5	
	0.001	114		0.3	1.83		0.001
	0.0018	120000		0.0665	2.7		0.0018
14.7	0.01		6900	0.7		10.5	0.01
0.11775			1.66			6.4	
0.159	0.01		19.955	0.7		0.105	0.01
0.159	0.01		19.955	0.7		0.105	0.01
	0.005	106		1	2.04		0.005
0.159	0.02		19.955	1		0.105	0.02
0.02762	0.05		3.28	3		0.00884	0.05
0.02762	0.05		3.28	3		0.00884	0.05
0.02762	0.02		3.28	1		0.00884	0.02
	0.0064	44.8		0.0544	0.032		0.0064
0.159			19.955			0.105	
0.159			19.955			0.105	

0.159			19.955			0.105	
0.159			19.955			0.105	
0.159			19.955			0.105	
0.02762	0.01		3.28	0.7		0.00884	0.01
0.0252	0.01		2.991	0.7		0.0083	0.01
0.0252	0.05		2.991	3		0.0083	0.05
	0.00577	0.128		0.0022			0.00577
0.159	0.04		19.955	3		0.105	0.04
	0.002	0.00064		1	0.000001		0.002
	0.0006	0.00245		0.074	0.0000034		0.0006
	0.06	0.094		0.03	0.000036		0.06
	0.028	0.00244		0.016	0.0000068		0.028
0.0000371	0.01		0.012875	0.7		0.0000119	0.01
	0.026	0.0233		0.0144	0.000017		0.026
	0.05	1270		0.0846	0.046		0.05
0.0000371			0.012875			0.0000119	
0.159	0.05		19.955	3		0.105	0.05
0.159			19.955			0.105	
0.159	0.01		19.955	0.7		0.105	0.01
0.159			19.955			0.105	
0.159			19.955			0.105	
	0.00135	0.00247		0.033	0.0000034		0.00135
	0.0047	0.0534		0.042	0.000068		0.0047
0.159			19.955			0.105	
0.11775			1.66			6.4	
0.159			19.955			0.105	
	0.0053	31		0.146	0.105		0.0053
0.618	3		8.72	200		0.194	3
0.11775	0.02		1.66	1		6.4	0.02
0.11775	0.05		1.66	3		6.4	0.05
7.8	1		1210	70		6.2	1
	0.0005	0.128		0.025	11600		0.0005
	0.000038	205		0.02	0.0543		0.000038
0.0241	0.005		30.85	0.01		0.0115	0.005
	0.02	11.4		0.052	0.018		0.02
	0.00008	2.92		0.1222	0.00041		0.00008
14.7	0.02		6900	1		10.5	0.02
0.00285	0.006		3.9	0.7		0.00119	0.006
	0.00028	163000		0.2185	32		0.00028
		0.00932			0.0045		
0.159	0.01		19.955	0.7		0.105	0.01
	0.0174	784		0.7	0.3		0.0174
0.159	0.01		19.955	0.7		0.105	0.01
	0.00004	157		0.002			0.00004
0.11775			1.66			6.4	
0.11775			1.66			6.4	
0.11775			1.66			6.4	
132			2352.5	7		42	
0.159	0.001		19.955	0.07		0.105	0.001
	0.0005	0.00596		0.04	0.009		0.0005
	0.00145	438		0.097	5.7		0.00145
0.11775			1.66			6.4	
0.159	0.005		19.955	0.005		0.105	0.005
0.11775	0.1		1.66	7		6.4	0.1



39	0.01		36700	0.05		15	0.01
	0.00027	15800		0.0726	1.69		0.00027
	0.011	814		0.2	0.06		0.011
0.159	0.05		19.955	3		0.105	0.05
0.0069415	0.1		0.194	7		0.54	0.1
0.159			19.955			0.105	
	0.0021	10.5		0.015	0.00095		0.0021
	0.0006	1.94		5	0.0892		0.0006
	0.0005	0.134		0.3			0.0005
14.7			6900			10.5	
	0.0084	0.0041		3	0.016		0.0084
	0.00004	629000		0.004	0.22		0.00004
0	2		0	2		0	2
	1E-008	0.000008		0.000001	0.0000005		1E-008
	0.00141	168		0.034	0.0317		0.00141
	0.00005	133		0.0001	0.0078		0.00005
	0.0002	29.3		0.0002	0.0077		0.0002
	0.00014	13300		0.0007	0.0085		0.00014
	0.00062	6150		0.04	0.58		0.00062
14.7			6900	3		10.5	
	0.000058	2.81		0.0039			0.000058
	0.0007	5.12		3	0.014		0.0007
0.159	1		19.955			0.105	1
0.11775	0.05		1.66	3		6.4	0.05
0.11775	0.02		1.66	1		6.4	0.02
0.11775			1.66			6.4	
0.11775			1.66			6.4	
0.0069415	0.05		0.194	3		0.54	0.05
0.618	8		8.72	500		0.194	8
	0.00011	176000		0.0002	1.8		0.00011
0.159			19.955	7		0.105	
	0.0134	0.0101		1	0.000051		0.0134
0.159	0.02		19.955	1		0.105	0.02
0.159	0.02		19.955	1		0.105	0.02
0.159	0.01		19.955	0.7		0.105	0.01
	0.0121	2.35		0.029	0.00068		0.0121
	0.0168	0.128		0.043	0.00068		0.0168
	0.00127	0.000176		0.0295	6.3		0.00127
	0.00108			0.00114	0.168		0.00108
	0.0002	3450		0.0574	1.3		0.0002
	0.00008	48200		0.0002	0.0539		0.00008
	0.0001	11.3		0.004	0.009		0.0001
	0.00019	567		0.0001	0.008		0.00019
	0.00008	25800		0.001	16		0.00008
0.11775			1.66			6.4	
	0.00049	11500		0.0672	4.2		0.00049
	0.0004	124		0.0785	0.0152		0.0004
	0.00008	63.2		0.0063	0.64		0.00008
	0.00008	6.36		0.00028	0.08		0.00008
	0.00032	872		0.0009	0.34		0.00032
	0.00026	0.442		0.25	0.003		0.00026
	0.0245	0.357		0.061	0.000099		0.0245
0.11775			1.66			6.4	
14.7			6900			10.5	

0.159			19.955			0.105	
	0.003	250		1	3.71		0.003
14.7	0.005		6900	0.005		10.5	0.005
	0.00017	1.23		0.0017	0.003		0.00017
0.0069415	0.05		0.194	3		0.54	0.05
	0.002	172000		0.0002	21		0.002
	0.002	316		0.3	38.4		0.002