Appendix A

Human Health Risk Results

Table A-1 Summary of 50th Percentile Target Waste Concentrations

Table A-2 Summary of 90th Percentile Target Waste Concentrations

Table A-3 Summary of 95th Percentile Target Waste Concentrations

Table A-4 Summary of Central Tendency Target Waste Concentration

Table A-5 Summary of High-End Target Waste Concentration

Table A-6 Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU

Table A-7 Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the Waste Stream

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	3.9E+05 S	1.2E+09 E	CF 1	1.9E+01	6.9E+04	AR 1	2.7E-02	1.0E+02	AR 1
Acrylonitrile	107-13-1	3.3E+03	1.0E+07 E	CF 1	1.1E+00	4.3E+03	NA 3	2.4E-02	9.4E+01	NA 3
Antimony	7440-36-0	1.1E+05 S	3.9E+08 E	CF 2	1.5E+02	5.7E+05	CR 2	4.2E+00	1.6E+04	CR 2
Barium	7440-39-3	4.1E+06 E	1.9E+10 E	NA 3	1.1E+13 E	1.7E+16 E	CR 2	3.0E+10 E	4.3E+13 E	CR 2
Benzene	71-43-2	1.4E+04	4.1E+07 E	CF 1	2.4E+03	7.9E+06 E	AR 1	2.5E+00	9.1E+03 S	AR 1
Butylbenzylphthalate	85-68-7	3.7E+09 E	1.9E+13 E	CF 2	L					
Cadmium	7440-43-9	5.6E+04	2.2E+08 E	CF 2	6.5E+08 E	1.6E+12 E	CR 2	1.4E+06 E	5.0E+09 E	CR 2
Chloroform	67-66-3	6.1E+05 S	2.0E+09 E	NA 3	5.3E+06 E	1.5E+10 E	NA 3	1.5E+00	6.1E+03	NA 3
Chromium (III)	16065-83-1	2.1E+09 E	9.7E+12 E	CF 2	1.6E+35 E	1.4E+38 E	CR 2	3.4E+31 E	4.4E+34 E	CR 2
Chromium (VI)	18540-29-9	1.6E+05	7.2E+08 E	CF 1	1.6E+04	7.3E+07 E	CR 2	4.7E+02	2.0E+06 E	CR 2
Cobalt	7440-48-4	1.1E+05	4.8E+08 E	NA 3	2.5E+31 E	1.3E+33 E	CR 2	5.6E+29 E	3.6E+30 E	CR 2
Copper	7440-50-8	1.8E+05 S	8.0E+08 E	NA 3	3.0E+13 E	5.9E+16 E	NA 5	6.6E+10 E	1.3E+14 E	NA 5
Cresol, m-	108-39-4	8.9E+08 E	3.5E+12 E	CF 2	2.5E+30 E	9.1E+32 E	CR 2	8.3E+01	3.4E+05 S	CR 2
Cresol, o-	95-48-7	1.7E+09 E	5.7E+12 E	CF 2	2.5E+30 E	9.1E+32 E	CR 2	8.3E+01	3.4E+05 S	CR 2
Cresol, p-	106-44-5	3.3E+08 E	1.3E+12 E	CF 2	2.5E+29 E	9.1E+31 E	CR 2	8.3E+00	3.4E+04 S	CR 2
Di(2-ethylhexylphthalate)	117-81-7	9.7E+07 E	3.3E+11 E	CF 1	L					
Dibutylphthalate	84-74-2	6.8E+09 E	3.3E+13 E	CF 2	L					
Dichloromethane	75-09-2	1.4E+05 S	4.3E+08 E	CF 1	8.8E+03	3.2E+07 E	NA 3	1.1E+01	4.3E+04 S	NA 3
Dimethylphenol, 2,4-	105-67-9	1.8E+09 E	7.7E+12 E	CF 2	1.0E+31 E	4.0E+34 E	CR 2	1.9E+01	7.7E+04 S	CR 2
Divalent mercury	7439-97-6(d)	2.0E+04	6.6E+07 E	F 2	2.5E+28 E	1.0E+32 E	CR 2	5.2E+27 E	1.7E+30 E	CR 2
Ethylbenzene	100-41-4	4.5E+07 E	1.4E+11 E	NA 3	L					
Ethylene glycol	107-21-1	7.3E+10 E	2.9E+14 E	CF 2	1.5E+05	5.7E+08 E	CR 2	3.3E+03	1.4E+07 E	CR 2
Formaldehyde	50-00-0	1.1E+06 E	3.2E+09 E	CF 1	3.5E+04	1.4E+08 E	CR 2	3.3E+02	1.4E+06 E	CR 2
Lead	7439-92-1	8.3E+06 E	3.4E+10 E	NA 4	2.0E+31 E	1.7E+34 E	NA 5	1.5E+28 E	9.2E+30 E	NA 5
Mercury	7439-97-6(e)	3.7E+03 S	1.2E+07 E	NA 3	1.9E+28 E	6.7E+29 E	NA 3	1.8E+25 E	3.5E+26 E	NA 3
Methanol	67-56-1	8.7E+08 E	2.5E+12 E	CF 2	1.2E+06 E	4.5E+09 E	CR 2	8.3E+02	3.4E+06 E	CR 2
Methyl ethyl ketone	78-93-3	2.4E+07 E	7.3E+10 E	NA 3	5.2E+03	2.1E+07 E	NA 3	2.9E+01	1.2E+05	NA 3
Methyl isobutyl ketone	108-10-1	2.6E+06 E	8.2E+09 E	NA 3	7.3E+03	2.6E+07 E	NA 3	1.3E+00	5.5E+03	NA 3
Methyl methacrylate	80-62-6	6.4E+06 E	2.1E+10 E	NA 3	8.7E+02	3.4E+06 E	NA 3	4.4E+00	1.7E+04 S	NA 3

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	9.6E+07 E	2.6E+11 E	CF 2	4.4E+04	1.6E+08 E	CR 2	1.7E+02	6.8E+05 S	CR 2
Nickel	7440-02-0	7.3E+05 S	3.3E+09 E	NA 3	1.1E+20 E	1.8E+23 E	CR 2	1.6E+17 E	2.6E+20 E	CR 2
Nickel oxide	1313-99-1	1.4E+06 E	6.4E+09 E	NA 3	B					
Pentachlorophenol	87-86-5	3.1E+06 E	1.2E+10 E	CF 1	1.3E+58 E	2.1E+59 E	CR 1	1.4E+28 E	3.7E+29 E	CR 1
Phenol	108-95-2	1.4E+10 E	4.6E+13 E	CF 2	2.1E+08 E	5.8E+11 E	CR 2	1.0E+03	4.1E+06 E	CR 2
Selenium	7782-49-2	1.1E+06 E	4.3E+09 E	CF 2	9.6E+02	3.6E+06 E	CR 2	2.4E+01	9.6E+04	CR 2
Silver	7440-22-4	9.3E+04	3.7E+08 E	CF 2	4.2E+30 E	8.5E+32 E	CR 2	5.9E+28 E	1.7E+30 E	CR 2
Styrene	100-42-5	8.9E+07 E	2.7E+11 E	NA 3	1.5E+32 E	6.1E+35 E	CR 2	1.9E+02	7.7E+05 S	CR 2
Tetrachloroethylene	127-18-4	4.5E+05 S	1.4E+09 E	CF 1	7.6E+02	3.0E+06 E	NA 3	8.5E-01	3.5E+03 S	NA 3
Tin	7440-31-5	1.3E+08 E	5.5E+11 E	CF 2	2.8E+34 E	4.2E+37 E	CR 2	1.3E+31 E	1.2E+34 E	CR 2
Toluene	108-88-3	4.8E+06 E	1.5E+10 E	NA 3	4.9E+31 E	1.4E+35 E	CR 2	1.9E+02	7.7E+05 S	CR 2
Vinyl acetate	108-05-4	2.3E+06 E	7.3E+09 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	2.6E+07 E	7.6E+10 E	NA 3	L					
Zinc	7440-66-6	2.5E+06 E	9.4E+09 E	CF 2	4.7E+32 E	2.9E+35 E	CR 2	4.5E+30 E	6.6E+32 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	3.8E+05 S	5.0E+08 E	CF 1	1.9E+01	2.8E+04	AR 1	2.7E-02	4.2E+01	AR 1
Acrylonitrile	107-13-1	3.3E+03	4.4E+06 E	CF 1	1.1E+00	1.9E+03	NA 3	2.4E-02	3.9E+01	NA 3
Antimony	7440-36-0	1.1E+05 S	1.6E+08 E	CF 2	1.5E+02	2.1E+05	CR 2	4.2E+00	6.2E+03	CR 2
Barium	7440-39-3	4.1E+06 E	7.5E+09 E	NA 3	1.1E+13 E	7.8E+15 E	CR 2	3.0E+10 E	2.2E+13 E	CR 2
Benzene	71-43-2	1.4E+04	1.9E+07 E	CF 1	2.4E+03	3.1E+06 E	AR 1	2.5E+00	3.8E+03 S	AR 1
Butylbenzylphthalate	85-68-7	3.7E+09 E	8.3E+12 E	CF 2	L					
Cadmium	7440-43-9	5.6E+04	8.7E+07 E	CF 2	6.5E+08 E	7.4E+11 E	CR 2	1.4E+06 E	2.0E+09 E	CR 2
Chloroform	67-66-3	6.1E+05 S	8.7E+08 E	NA 3	5.3E+06 E	5.3E+09 E	NA 3	1.5E+00	1.8E+03	NA 3
Chromium (III)	16065-83-1	2.1E+09 E	4.3E+12 E	CF 2	1.6E+35 E	7.0E+37 E	CR 2	3.4E+31 E	2.0E+34 E	CR 2
Chromium (VI)	18540-29-9	1.4E+05	2.8E+08 E	CF 1	3.1E+04	4.3E+07 E	CR 2	9.8E+02	1.2E+06 E	CR 2
Cobalt	7440-48-4	1.1E+05	2.0E+08 E	NA 3	3.1E+31 E	2.1E+33 E	CR 2	6.0E+29 E	6.4E+30 E	CR 2
Copper	7440-50-8	1.8E+05 S	3.5E+08 E	NA 3	3.0E+13 E	2.7E+16 E	NA 5	6.6E+10 E	6.4E+13 E	NA 5
Cresol, m-	108-39-4	8.9E+08 E	1.6E+12 E	CF 2	2.5E+30 E	8.0E+32 E	CR 2	8.3E+01	1.4E+05 S	CR 2
Cresol, o-	95-48-7	1.7E+09 E	2.5E+12 E	CF 2	2.5E+30 E	8.0E+32 E	CR 2	8.3E+01	1.4E+05 S	CR 2
Cresol, p-	106-44-5	3.2E+08 E	5.5E+11 E	CF 2	2.5E+29 E	8.0E+31 E	CR 2	8.3E+00	1.4E+04	CR 2
Di(2-ethylhexylphthalate)	117-81-7	9.7E+07 E	1.4E+11 E	AF 1	L					
Dibutylphthalate	84-74-2	6.7E+09 E	1.5E+13 E	CF 2	L					
Dichloromethane	75-09-2	1.4E+05 S	1.9E+08 E	CF 1	8.8E+03	1.3E+07 E	NA 3	1.1E+01	1.8E+04 S	NA 3
Dimethylphenol, 2,4-	105-67-9	1.8E+09 E	3.2E+12 E	CF 2	1.0E+31 E	1.8E+34 E	CR 2	1.9E+01	3.2E+04 S	CR 2
Divalent mercury	7439-97-6(d)	2.0E+04	3.0E+07 E	F 2	2.5E+28 E	4.3E+31 E	CR 2	5.2E+27 E	1.0E+30 E	CR 2
Ethylbenzene	100-41-4	4.5E+07 E	5.8E+10 E	NA 3	L					
Ethylene glycol	107-21-1	7.1E+10 E	1.2E+14 E	CF 2	1.5E+05	2.4E+08 E	CR 2	3.3E+03	5.6E+06 E	CR 2
Formaldehyde	50-00-0	1.1E+06 E	1.3E+09 E	CF 1	3.5E+04	5.6E+07 E	CR 2	3.3E+02	5.6E+05 S	CR 2
Lead	7439-92-1	8.3E+06 E	1.4E+10 E	NA 4	2.0E+31 E	9.3E+33 E	NA 5	1.5E+28 E	4.5E+30 E	NA 5
Mercury	7439-97-6(e)	3.7E+03 S	4.9E+06 E	NA 3	1.9E+28 E	5.4E+29 E	NA 3	1.8E+25 E	3.1E+26 E	NA 3
Methanol	67-56-1	8.7E+08 E	1.1E+12 E	CF 2	1.2E+06 E	1.9E+09 E	CR 2	8.3E+02	1.4E+06 E	CR 2
Methyl ethyl ketone	78-93-3	2.4E+07 E	3.1E+10 E	NA 3	5.2E+03	8.7E+06 E	NA 3	2.9E+01	5.1E+04	NA 3
Methyl isobutyl ketone	108-10-1	2.6E+06 E	3.4E+09 E	NA 3	7.3E+03	9.7E+06 E	NA 3	1.3E+00	2.3E+03	NA 3
Methyl methacrylate	80-62-6	6.4E+06 E	8.7E+09 E	NA 3	8.7E+02	1.4E+06 E	NA 3	4.4E+00	7.2E+03	NA 3

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	9.6E+07 E	1.1E+11 E	CF 2	4.4E+04	6.7E+07 E	CR 2	1.7E+02	2.8E+05 S	CR 2
Nickel	7440-02-0	7.3E+05 S	1.4E+09 E	NA 3	5.6E+20 E	3.9E+23 E	CR 2	9.5E+17 E	4.9E+20 E	CR 2
Nickel oxide	1313-99-1	1.4E+06 E	2.7E+09 E	NA 3	B					
Pentachlorophenol	87-86-5	3.1E+06 E	5.1E+09 E	CF 1	1.3E+58 E	2.1E+59 E	CR 1	1.4E+28 E	3.2E+29 E	CR 1
Phenol	108-95-2	1.4E+10 E	2.0E+13 E	CF 2	2.1E+08 E	2.1E+11 E	CR 2	1.0E+03	1.7E+06 E	CR 2
Selenium	7782-49-2	1.1E+06 E	1.9E+09 E	CF 2	9.6E+02	1.4E+06 E	CR 2	2.4E+01	3.7E+04	CR 2
Silver	7440-22-4	9.2E+04	1.6E+08 E	CF 2	4.6E+30 E	8.9E+32 E	CR 2	6.1E+28 E	1.9E+30 E	CR 2
Styrene	100-42-5	8.9E+07 E	1.2E+11 E	NA 3	1.5E+32 E	2.6E+35 E	CR 2	1.9E+02	3.2E+05 S	CR 2
Tetrachloroethylene	127-18-4	4.5E+05 S	6.0E+08 E	CF 1	7.6E+02	1.1E+06 E	NA 3	8.5E-01	1.4E+03 S	NA 3
Tin	7440-31-5	1.3E+08 E	2.4E+11 E	CF 2	2.8E+34 E	2.0E+37 E	CR 2	1.3E+31 E	5.6E+33 E	CR 2
Toluene	108-88-3	4.8E+06 E	6.5E+09 E	NA 3	4.9E+31 E	7.1E+34 E	CR 2	1.9E+02	3.2E+05 S	CR 2
Vinyl acetate	108-05-4	2.3E+06 E	3.2E+09 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	2.6E+07 E	3.3E+10 E	NA 3	L					
Zinc	7440-66-6	2.5E+06 E	4.1E+09 E	CF 2	4.7E+32 E	2.0E+35 E	CR 2	4.5E+30 E	4.8E+32 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
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L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	4.0E+04	1.8E+07 E	CF 1	2.7E+00	1.7E+03	AR 1			
Acrylonitrile	107-13-1	8.0E+02	3.2E+05	CF 1	1.1E+00	6.9E+02	NA 3			
Antimony	7440-36-0				1.1E+02	6.5E+04	CR 2			
Barium	7440-39-3				2.7E+11 E	1.0E+14 E	CR 2			
Benzene	71-43-2	3.3E+03 S	1.4E+06 E	CF 1	9.9E+01	5.7E+04	AR 1			
Butylbenzylphthalate	85-68-7	5.9E+10 E	2.3E+13 E	CF 2	1.2E+07 E	8.4E+09 E	CR 2			
Cadmium	7440-43-9				3.2E+07 E	1.3E+10 E	CR 2			
Chloroform	67-66-3	3.9E+04 S	1.9E+07 E	NA 3	1.8E+01	1.1E+04	NA 3			
Chromium (III)	16065-83-1				8.1E+32 E	9.0E+34 E	CR 2			
Chromium (VI)	18540-29-9				1.4E+04	7.6E+06 E	CR 2			
Cobalt	7440-48-4				2.0E+22 E	1.3E+25 E	CR 2			
Copper	7440-50-8				2.2E+11 E	1.2E+14 E	NA 5			
Cresol, m-	108-39-4	4.2E+06 E	7.3E+08 E	CF 2	2.7E+03	1.7E+06 E	CR 2			
Cresol, o-	95-48-7	5.9E+07 E	1.6E+10 E	CF 2	4.1E+03	2.7E+06 E	CR 2			
Cresol, p-	106-44-5	9.9E+07 E	2.8E+10 E	CF 2	7.8E+02	4.1E+05	CR 2			
Di(2-ethylhexylphthalate)	117-81-7	1.2E+08 E	5.0E+10 E	CF 1	1.7E+07 E	1.1E+10 E	CR 1			
Dibutylphthalate	84-74-2	7.2E+08 E	1.1E+11 E	CF 2	1.7E+07 E	1.2E+10 E	CR 2			
Dichloromethane	75-09-2	3.3E+04 S	1.5E+07 E	CF 1	6.2E+02	3.8E+05	NA 3			
Dimethylphenol, 2,4-	105-67-9	1.0E+08 E	2.4E+10 E	CF 2	2.8E+03	1.9E+06 E	CR 2			
Divalent mercury	7439-97-6(d)	1.5E+04	6.3E+06 E	F 2	1.1E+28 E	9.2E+29 E	CR 2			
Ethylbenzene	100-41-4	2.2E+06 E	6.5E+08 E	NA 3	1.6E+03 S	1.1E+06 E	NA 3			
Ethylene glycol	107-21-1	1.3E+07 E	1.9E+09 E	NA 3	1.1E+05	7.3E+07 E	CR 2			
Formaldehyde	50-00-0	8.8E+04	3.7E+07 E	CF 1	1.3E+04	8.2E+06 E	CR 2			
Lead	7439-92-1				1.1E+29 E	1.8E+31 E	NA 5			
Mercury	7439-97-6(e)	1.0E+02 S	5.4E+04	NA 3	1.0E+17 E	6.3E+19 E	NA 3			
Methanol	67-56-1	1.2E+08 E	4.2E+10 E	CF 2	3.3E+04	2.2E+07 E	CR 2			
Methyl ethyl ketone	78-93-3	5.3E+06 E	1.8E+09 E	NA 3	1.2E+03	7.6E+05	NA 3			
Methyl isobutyl ketone	108-10-1	3.7E+05 S	1.2E+08 E	NA 3	5.2E+01	3.2E+04	NA 3			
Methyl methacrylate	80-62-6	1.1E+06 E	3.8E+08 E	NA 3	2.3E+02	1.5E+05	NA 3			

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	1.9E+07 E	5.8E+09 E	CF 2	6.5E+03	4.2E+06 E	CR 2			
Nickel	7440-02-0				1.2E+16 E	6.9E+18 E	CR 2			
Nickel oxide	1313-99-1				B					
Pentachlorophenol	87-86-5	8.0E+06 E	3.1E+09 E	CF 1	2.0E+03 S	1.6E+06 E	AR 1			
Phenol	108-95-2	2.0E+09 E	5.7E+11 E	CF 2	5.7E+04	3.5E+07 E	CR 2			
Selenium	7782-49-2				9.0E+02	5.8E+05	CR 2			
Silver	7440-22-4				5.0E+23 E	4.7E+26 E	CR 2			
Styrene	100-42-5	2.0E+06 E	6.2E+08 E	NA 3	5.5E+02 S	3.4E+05	NA 3			
Tetrachloroethylene	127-18-4	5.0E+04 S	2.4E+07 E	CF 1	5.3E+01	3.2E+04	NA 3			
Tin	7440-31-5				1.9E+32 E	2.4E+34 E	CR 2			
Toluene	108-88-3	3.3E+05 S	1.3E+08 E	NA 3	1.5E+02	9.7E+04	NA 3			
Vinyl acetate	108-05-4	2.3E+05 S	8.1E+07 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	6.7E+05 S	2.2E+08 E	NA 3	4.7E+02 S	3.2E+05	NA 3			
Zinc	7440-66-6				9.9E+30 E	1.8E+32 E	CR 2			

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	8.3E+06 E	7.5E+09 E	CF 1						
Acrylonitrile	107-13-1	8.2E+03	5.4E+06 E	CF 1						
Benzene	71-43-2	9.6E+03 S	5.9E+06 E	CF 1						
Butylbenzylphthalate	85-68-7	3.7E+12 E	3.1E+15 E	CF 2						
Chloroform	67-66-3	8.6E+04 S	5.3E+07 E	NA 3						
Cresol, m-	108-39-4	3.3E+11 E	7.8E+14 E	CF 2						
Cresol, o-	95-48-7	1.6E+10 E	2.0E+13 E	CF 2						
Cresol, p-	106-44-5	5.6E+10 E	8.5E+13 E	CF 2						
Di(2-ethylhexylphthalate)	117-81-7	4.8E+09 E	5.9E+12 E	CF 1						
Dibutylphthalate	84-74-2	1.8E+36 E	4.4E+39 E	CF 2						
Dichloromethane	75-09-2	8.8E+04 S	5.7E+07 E	CF 1						
Dimethylphenol, 2,4-	105-67-9	2.6E+11 E	4.8E+14 E	CF 2						
Divalent mercury	7439-97-6(d)	4.9E+06 E	3.2E+09 E	F 2						
Ethylbenzene	100-41-4	1.6E+07 E	8.4E+09 E	NA 3						
Ethylene glycol	107-21-1	1.1E+20 E	3.3E+23 E	NA 3						
Formaldehyde	50-00-0	5.0E+06 E	4.5E+09 E	CF 1						
Mercury	7439-97-6(e)	3.1E+02 S	1.9E+05	NA 3						
Methanol	67-56-1	4.1E+09 E	3.1E+12 E	CF 2						
Methyl ethyl ketone	78-93-3	9.8E+07 E	6.8E+10 E	NA 3						
Methyl isobutyl ketone	108-10-1	5.4E+06 E	3.7E+09 E	NA 3						
Methyl methacrylate	80-62-6	9.3E+06 E	5.6E+09 E	NA 3						
n-Butyl alcohol	71-36-3	6.9E+08 E	5.5E+11 E	CF 2						
Pentachlorophenol	87-86-5	3.8E+08 E	4.2E+11 E	CF 1						
Phenol	108-95-2	7.5E+11 E	9.4E+14 E	CF 2						
Styrene	100-42-5	2.0E+07 E	1.0E+10 E	NA 3						
Tetrachloroethylene	127-18-4	1.7E+05 S	9.2E+07 E	CF 1						
Toluene	108-88-3	1.4E+06 E	8.1E+08 E	NA 3						
Vinyl acetate	108-05-4	9.2E+05 S	5.6E+08 E	NA 3						
Xylene (mixed isomers)	1330-20-7	6.0E+06 E	2.9E+09 E	NA 3						

Table A-1. Summary of 50th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	2.6E+04	1.9E+07 E	CF 1	7.3E-01	4.7E+02	AR 1	1.7E-03	9.7E-01	AR 1
Acrylonitrile	107-13-1	2.3E+02	1.7E+05	CF 1	1.0E-01	6.0E+01	NA 3	2.2E-03	1.2E+00	NA 3
Antimony	7440-36-0	6.4E+03	4.4E+06 E	CF 2	3.8E+00	3.2E+03	CR 2	1.0E-01	8.2E+01	CR 2
Barium	7440-39-3	3.3E+05 S	2.5E+08 E	NA 3	2.6E+04	5.7E+07 E	CR 2	7.3E+01	1.6E+05	CR 2
Benzene	71-43-2	1.3E+03	7.9E+05	CF 1	5.0E+01	4.7E+04	AR 1	1.1E-01	8.3E+01	AR 1
Butylbenzylphthalate	85-68-7	3.8E+08 E	3.5E+11 E	CF 2	L					
Cadmium	7440-43-9	4.9E+03	2.8E+06 E	CF 2	1.2E+02	2.8E+05	CR 2	4.5E-01	9.5E+02	CR 2
Chloroform	67-66-3	6.3E+04 S	4.0E+07 E	NA 3	8.4E+02	1.2E+06 E	NA 3	2.2E-02	1.5E+01	NA 3
Chromium (III)	16065-83-1	2.9E+08 E	1.7E+11 E	CF 2	2.3E+18 E	6.0E+21 E	CR 2	8.1E+14 E	1.6E+18 E	CR 2
Chromium (VI)	18540-29-9	9.2E+03	9.5E+06 E	CF 1	5.3E+01	6.6E+04	CR 2	1.2E+00	1.5E+03	CR 2
Cobalt	7440-48-4	9.8E+03	6.9E+06 E	NA 3	1.0E+06 E	3.5E+09 E	CR 2	1.2E+03	4.4E+06 E	CR 2
Copper	7440-50-8	1.6E+04	1.2E+07 E	NA 3	3.8E+04	1.1E+08 E	NA 5	1.1E+02	2.5E+05	NA 5
Cresol, m-	108-39-4	4.8E+07 E	2.7E+10 E	CF 2	3.1E+05 S	3.7E+08 E	CR 2	5.6E+00	3.7E+03	CR 2
Cresol, o-	95-48-7	6.5E+07 E	5.9E+10 E	CF 2	3.0E+06 E	4.3E+09 E	CR 2	5.6E+00	3.7E+03	CR 2
Cresol, p-	106-44-5	1.2E+07 E	1.2E+10 E	CF 2	3.0E+05 S	4.3E+08 E	CR 2	5.6E-01	3.7E+02	CR 2
Di(2-ethylhexylphthalate)	117-81-7	5.2E+06 E	5.0E+09 E	AF 1	L					
Dibutylphthalate	84-74-2	3.8E+08 E	3.2E+11 E	CF 2	L					
Dichloromethane	75-09-2	1.3E+04	7.9E+06 E	CF 1	4.6E+02	3.3E+05	NA 3	9.0E-01	5.4E+02	NA 3
Dimethylphenol, 2,4-	105-67-9	1.1E+08 E	1.0E+11 E	CF 2	5.4E+09 E	6.4E+12 E	CR 2	1.2E+00	6.7E+02	CR 2
Divalent mercury	7439-97-6(d)	1.1E+03	8.7E+05	F 2	7.6E+03	2.4E+07 E	CR 2	7.6E+00	3.6E+04	CR 2
Ethylbenzene	100-41-4	3.1E+06 E	2.1E+09 E	NA 3	L					
Ethylene glycol	107-21-1	2.9E+09 E	1.1E+12 E	CF 2	9.1E+03	6.2E+06 E	CR 2	2.2E+02	1.5E+05	CR 2
Formaldehyde	50-00-0	4.1E+04	4.0E+07 E	CF 1	2.1E+03	1.4E+06 E	CR 2	2.2E+01	1.5E+04	CR 2
Lead	7439-92-1	7.0E+05	4.3E+08 E	NA 4	2.7E+08 E	8.3E+11 E	NA 5	6.3E+04	2.9E+08 E	NA 5
Mercury	7439-97-6(e)	3.8E+02 S	2.1E+05	NA 3	2.2E+05 S	8.9E+08 E	NA 3	8.5E+01 S	2.9E+05 S	NA 3
Methanol	67-56-1	3.6E+07 E	3.4E+10 E	CF 2	4.9E+04	3.3E+07 E	CR 2	5.6E+01	3.7E+04	CR 2
Methyl ethyl ketone	78-93-3	1.6E+06 E	1.2E+09 E	NA 3	3.4E+02	2.2E+05	NA 3	2.2E+00	1.4E+03	NA 3
Methyl isobutyl ketone	108-10-1	1.9E+05 S	1.4E+08 E	NA 3	1.6E+02	1.2E+05	NA 3	9.2E-02	6.0E+01	NA 3
Methyl methacrylate	80-62-6	5.7E+05 S	3.8E+08 E	NA 3	6.9E+01	4.1E+04	NA 3	3.9E-01	2.3E+02	NA 3

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	4.9E+06 E	4.1E+09 E	CF 2	2.1E+03	1.5E+06 E	CR 2	1.1E+01	7.4E+03	CR 2
Nickel	7440-02-0	6.4E+04	5.0E+07 E	NA 3	6.4E+04	1.8E+08 E	CR 2	1.2E+02	3.8E+05	CR 2
Nickel oxide	1313-99-1	1.2E+05	9.1E+07 E	NA 3	B					
Pentachlorophenol	87-86-5	2.1E+05 S	1.7E+08 E	CF 1	1.4E+02	1.6E+05	AR 1	1.0E-01	1.2E+02	AR 1
Phenol	108-95-2	6.2E+08 E	4.7E+11 E	CF 2	6.2E+05 S	5.7E+08 E	CR 2	6.7E+01	4.4E+04	CR 2
Selenium	7782-49-2	1.0E+05 S	6.3E+07 E	CF 2	4.4E+01	3.4E+04	CR 2	1.2E+00	8.4E+02	CR 2
Silver	7440-22-4	9.3E+03	5.2E+06 E	CF 2	2.8E+05 S	9.8E+08 E	CR 2	3.6E+02	1.2E+06 E	CR 2
Styrene	100-42-5	5.5E+06 E	3.9E+09 E	NA 3	7.0E+30 E	1.7E+33 E	CR 2	1.2E+01	6.7E+03 S	CR 2
Tetrachloroethylene	127-18-4	4.2E+04 S	2.4E+07 E	CF 1	2.9E+01	2.1E+04	NA 3	6.0E-02	3.5E+01	NA 3
Tin	7440-31-5	1.5E+07 E	9.5E+09 E	CF 2	4.0E+15 E	7.4E+18 E	CR 2	7.6E+11 E	1.6E+15 E	CR 2
Toluene	108-88-3	4.4E+05 S	2.8E+08 E	NA 3	5.1E+03	7.8E+06 E	NA 3	2.2E-01	3.9E+02	NA 3
Vinyl acetate	108-05-4	2.1E+05 S	1.4E+08 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	1.5E+06 E	1.1E+09 E	NA 3	L					
Zinc	7440-66-6	2.4E+05	1.3E+08 E	CF 2	1.4E+07 E	4.8E+10 E	CR 2	1.3E+04	4.5E+07 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	2.6E+04	1.4E+07 E	CF 1	7.3E-01	3.1E+02	AR 1	1.7E-03	7.0E-01	AR 1
Acrylonitrile	107-13-1	2.3E+02	1.3E+05	CF 1	1.0E-01	4.3E+01	NA 3	2.2E-03	9.1E-01	NA 3
Antimony	7440-36-0	6.4E+03	3.2E+06 E	CF 2	3.8E+00	2.3E+03	CR 2	1.0E-01	5.8E+01	CR 2
Barium	7440-39-3	3.3E+05 S	1.9E+08 E	NA 3	2.6E+04	2.7E+07 E	CR 2	7.3E+01	9.2E+04	CR 2
Benzene	71-43-2	1.3E+03	6.3E+05	CF 1	5.0E+01	3.1E+04	AR 1	1.1E-01	5.5E+01	AR 1
Butylbenzylphthalate	85-68-7	3.8E+08 E	3.0E+11 E	CF 2	L					
Cadmium	7440-43-9	4.9E+03	2.2E+06 E	CF 2	1.2E+02	1.3E+05	CR 2	4.5E-01	5.1E+02	CR 2
Chloroform	67-66-3	6.3E+04 S	3.1E+07 E	NA 3	8.4E+02	6.0E+05	NA 3	2.2E-02	9.4E+00	NA 3
Chromium (III)	16065-83-1	2.9E+08 E	1.6E+11 E	CF 2	2.3E+18 E	3.1E+21 E	CR 2	8.1E+14 E	9.5E+17 E	CR 2
Chromium (VI)	18540-29-9	1.1E+04	7.5E+06 E	CF 1	9.6E+01	6.8E+04	CR 2	1.6E+00	1.4E+03	CR 2
Cobalt	7440-48-4	9.8E+03	5.7E+06 E	NA 3	1.3E+06 E	1.7E+09 E	CR 2	1.7E+03	2.3E+06 E	CR 2
Copper	7440-50-8	1.6E+04	9.3E+06 E	NA 3	3.8E+04	5.0E+07 E	NA 5	1.1E+02	1.3E+05	NA 5
Cresol, m-	108-39-4	4.8E+07 E	2.1E+10 E	CF 2	3.1E+05 S	1.9E+08 E	CR 2	5.6E+00	2.6E+03	CR 2
Cresol, o-	95-48-7	6.4E+07 E	3.9E+10 E	CF 2	3.0E+06 E	2.0E+09 E	CR 2	5.6E+00	2.6E+03	CR 2
Cresol, p-	106-44-5	1.2E+07 E	8.4E+09 E	CF 2	3.0E+05 S	2.0E+08 E	CR 2	5.6E-01	2.6E+02	CR 2
Di(2-ethylhexylphthalate)	117-81-7	5.2E+06 E	3.9E+09 E	CF 1	L					
Dibutylphthalate	84-74-2	3.7E+08 E	2.8E+11 E	CF 2	L					
Dichloromethane	75-09-2	1.3E+04	6.3E+06 E	CF 1	4.6E+02	2.4E+05	NA 3	9.0E-01	3.9E+02	NA 3
Dimethylphenol, 2,4-	105-67-9	1.1E+08 E	7.9E+10 E	CF 2	5.4E+09 E	3.0E+12 E	CR 2	1.2E+00	4.7E+02	CR 2
Divalent mercury	7439-97-6(d)	1.0E+03	6.0E+05	F 2	7.6E+03	8.9E+06 E	CR 2	7.6E+00	1.2E+04	CR 2
Ethylbenzene	100-41-4	3.1E+06 E	1.5E+09 E	NA 3	L					
Ethylene glycol	107-21-1	2.8E+09 E	1.1E+12 E	CF 2	9.1E+03	4.3E+06 E	CR 2	2.2E+02	1.1E+05	CR 2
Formaldehyde	50-00-0	4.1E+04	2.6E+07 E	CF 1	2.1E+03	9.3E+05	CR 2	2.2E+01	1.1E+04	CR 2
Lead	7439-92-1	7.0E+05	3.6E+08 E	NA 4	2.7E+08 E	4.0E+11 E	NA 5	6.3E+04	8.2E+07 E	NA 5
Mercury	7439-97-6(e)	3.8E+02 S	1.6E+05	NA 3	2.2E+05 S	3.9E+08 E	NA 3	8.5E+01 S	1.1E+05 S	NA 3
Methanol	67-56-1	3.6E+07 E	2.2E+10 E	CF 2	4.9E+04	2.1E+07 E	CR 2	5.6E+01	2.6E+04	CR 2
Methyl ethyl ketone	78-93-3	1.6E+06 E	8.9E+08 E	NA 3	3.4E+02	1.5E+05	NA 3	2.2E+00	1.0E+03	NA 3
Methyl isobutyl ketone	108-10-1	1.9E+05 S	1.0E+08 E	NA 3	1.6E+02	7.3E+04	NA 3	9.2E-02	4.2E+01	NA 3
Methyl methacrylate	80-62-6	5.7E+05 S	2.8E+08 E	NA 3	6.9E+01	2.8E+04	NA 3	3.9E-01	1.6E+02	NA 3

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	4.9E+06 E	2.7E+09 E	CF 2	2.1E+03	9.7E+05	CR 2	1.1E+01	5.3E+03	CR 2
Nickel	7440-02-0	6.4E+04	3.6E+07 E	NA 3	9.4E+04	1.3E+08 E	CR 2	1.7E+02	2.2E+05	CR 2
Nickel oxide	1313-99-1	1.2E+05	7.3E+07 E	NA 3	B					
Pentachlorophenol	87-86-5	2.1E+05 S	1.4E+08 E	CF 1	1.4E+02	9.6E+04	AR 1	1.0E-01	6.6E+01	AR 1
Phenol	108-95-2	6.2E+08 E	3.2E+11 E	CF 2	6.2E+05 S	3.2E+08 E	CR 2	6.7E+01	3.2E+04	CR 2
Selenium	7782-49-2	1.0E+05 S	5.0E+07 E	CF 2	4.4E+01	2.5E+04	CR 2	1.2E+00	5.9E+02	CR 2
Silver	7440-22-4	9.3E+03	4.2E+06 E	CF 2	3.7E+05 S	4.4E+08 E	CR 2	4.8E+02	5.5E+05	CR 2
Styrene	100-42-5	5.5E+06 E	2.9E+09 E	NA 3	7.0E+30 E	1.4E+33 E	CR 2	1.2E+01	4.7E+03 S	CR 2
Tetrachloroethylene	127-18-4	4.2E+04 S	1.9E+07 E	CF 1	2.9E+01	1.4E+04	NA 3	6.0E-02	2.4E+01	NA 3
Tin	7440-31-5	1.5E+07 E	7.8E+09 E	CF 2	4.0E+15 E	4.1E+18 E	CR 2	7.6E+11 E	8.9E+14 E	CR 2
Toluene	108-88-3	4.4E+05 S	2.1E+08 E	NA 3	5.1E+03	3.7E+06 E	NA 3	2.2E-01	1.8E+02	NA 3
Vinyl acetate	108-05-4	2.1E+05 S	1.1E+08 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	1.5E+06 E	7.6E+08 E	NA 3	L					
Zinc	7440-66-6	2.4E+05	1.1E+08 E	CF 2	1.4E+07 E	1.8E+10 E	CR 2	1.3E+04	1.6E+07 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	1.0E+03	2.3E+05	AF 1	1.8E-02	1.2E+01	AR 1			
Acrylonitrile	107-13-1	6.2E+00	1.9E+04	CF 1	1.0E-02	9.3E+00	NA 3			
Antimony	7440-36-0				5.8E-01	3.9E+02	CR 2			
Barium	7440-39-3				7.1E+03	7.2E+06 E	CR 2			
Benzene	71-43-2	3.0E+01	1.0E+05	CF 1	6.4E-01	5.6E+02	AR 1			
Butylbenzylphthalate	85-68-7	5.0E+08 E	5.3E+11 E	F 2	4.4E+04 S	5.6E+07 E	CR 2			
Cadmium	7440-43-9				3.5E+01	3.9E+04	CR 2			
Chloroform	67-66-3	5.8E+02	2.0E+06 E	NA 3	1.4E-01	1.5E+02	NA 3			
Chromium (III)	16065-83-1				8.1E+15 E	9.7E+18 E	CR 2			
Chromium (VI)	18540-29-9				1.2E+01	8.8E+03	CR 2			
Cobalt	7440-48-4				1.8E+05	2.4E+08 E	CR 2			
Copper	7440-50-8				1.0E+04	1.3E+07 E	NA 5			
Cresol, m-	108-39-4	1.8E+04	2.0E+07 E	CF 2	2.6E+01	2.2E+04	CR 2			
Cresol, o-	95-48-7	1.6E+05 S	2.3E+08 E	CF 2	3.4E+01	2.5E+04	CR 2			
Cresol, p-	106-44-5	1.4E+05 S	1.9E+08 E	AF 2	4.0E+00	2.6E+03	CR 2			
Di(2-ethylhexylphthalate)	117-81-7	7.2E+05 S	6.3E+08 E	AF 1	1.0E+05 S	1.3E+08 E	CR 1			
Dibutylphthalate	84-74-2	2.6E+06 E	4.4E+09 E	CF 2	4.9E+04 S	5.8E+07 E	CR 2			
Dichloromethane	75-09-2	3.1E+02	1.1E+06 E	CF 1	4.6E+00	4.5E+03	NA 3			
Dimethylphenol, 2,4-	105-67-9	3.1E+05 S	2.9E+08 E	CF 2	2.1E+01	1.7E+04	CR 2			
Divalent mercury	7439-97-6(d)	1.6E+02	2.5E+04	F 2	1.0E+03	6.4E+05	CR 2			
Ethylbenzene	100-41-4	1.6E+04 S	4.7E+07 E	NA 3	9.8E+00	1.1E+04	NA 3			
Ethylene glycol	107-21-1	4.1E+04	8.3E+07 E	NA 3	1.0E+03	7.9E+05	CR 2			
Formaldehyde	50-00-0	1.1E+03	1.3E+06 E	CF 1	1.1E+02	8.2E+04	CR 2			
Lead	7439-92-1				1.2E+07 E	1.3E+10 E	NA 5			
Mercury	7439-97-6(e)	2.0E+00 S	5.9E+03	NA 3	4.5E+02 S	1.4E+06 E	NA 3			
Methanol	67-56-1	8.4E+05	1.8E+09 E	CF 2	2.8E+02	2.0E+05	CR 2			
Methyl ethyl ketone	78-93-3	3.9E+04	1.0E+08 E	NA 3	1.1E+01	8.2E+03	NA 3			
Methyl isobutyl ketone	108-10-1	2.5E+03	6.8E+06 E	NA 3	4.4E-01	3.4E+02	NA 3			
Methyl methacrylate	80-62-6	9.8E+03	3.0E+07 E	NA 3	1.9E+00	2.1E+03	NA 3			

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	1.2E+05 S	2.5E+08 E	CF 2	5.6E+01	4.1E+04	CR 2			
Nickel	7440-02-0				1.3E+04	1.8E+07 E	CR 2			
Nickel oxide	1313-99-1				B					
Pentachlorophenol	87-86-5	1.6E+04 S	1.1E+07 E	CF 1	6.1E+00	1.0E+04	AR 1			
Phenol	108-95-2	4.6E+06 E	4.9E+09 E	CF 2	4.1E+02	2.7E+05	CR 2			
Selenium	7782-49-2				9.7E+00	6.1E+03	CR 2			
Silver	7440-22-4				2.9E+04	4.0E+07 E	CR 2			
Styrene	100-42-5	1.6E+04 S	4.7E+07 E	NA 3	4.3E+00	4.6E+03	NA 3			
Tetrachloroethylene	127-18-4	5.8E+02 S	1.9E+06 E	CF 1	3.8E-01	4.8E+02	NA 3			
Tin	7440-31-5				9.4E+12 E	9.1E+15 E	CR 2			
Toluene	108-88-3	3.8E+03 S	1.2E+07 E	NA 3	1.1E+00	1.2E+03	NA 3			
Vinyl acetate	108-05-4	2.0E+03	6.6E+06 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	5.6E+03 S	1.7E+07 E	NA 3	3.1E+00	3.9E+03	NA 3			
Zinc	7440-66-6				2.9E+06 E	2.9E+09 E	CR 2			

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	3.3E+05	3.2E+07 E	CF 1						
Acrylonitrile	107-13-1	2.3E+02	6.9E+04	CF 1						
Benzene	71-43-2	2.9E+02	1.9E+05	CF 1						
Butylbenzylphthalate	85-68-7	1.0E+11 E	1.0E+13 E	CF 2						
Chloroform	67-66-3	3.5E+03	3.3E+06 E	NA 3						
Cresol, m-	108-39-4	1.0E+07 E	1.6E+08 E	CF 2						
Cresol, o-	95-48-7	7.5E+07 E	3.4E+09 E	CF 2						
Cresol, p-	106-44-5	8.7E+07 E	4.0E+09 E	CF 2						
Di(2-ethylhexylphthalate)	117-81-7	7.8E+07 E	3.5E+09 E	AF 1						
Dibutylphthalate	84-74-2	1.1E+09 E	1.6E+10 E	CF 2						
Dichloromethane	75-09-2	2.9E+03	2.1E+06 E	CF 1						
Dimethylphenol, 2,4-	105-67-9	1.9E+08 E	4.9E+09 E	CF 2						
Divalent mercury	7439-97-6(d)	8.0E+04 S	1.1E+07 E	F 2						
Ethylbenzene	100-41-4	3.2E+05 S	1.0E+08 E	NA 3						
Ethylene glycol	107-21-1	1.9E+07 E	2.6E+08 E	NA 3						
Formaldehyde	50-00-0	1.9E+05	2.5E+07 E	CF 1						
Mercury	7439-97-6(e)	1.4E+01 S	1.0E+04	NA 3						
Methanol	67-56-1	1.0E+08 E	1.7E+10 E	CF 2						
Methyl ethyl ketone	78-93-3	2.8E+06 E	5.6E+08 E	NA 3						
Methyl isobutyl ketone	108-10-1	1.4E+05 S	3.0E+07 E	NA 3						
Methyl methacrylate	80-62-6	2.7E+05 S	8.5E+07 E	NA 3						
n-Butyl alcohol	71-36-3	1.7E+07 E	2.4E+09 E	CF 2						
Pentachlorophenol	87-86-5	2.5E+06 E	4.4E+08 E	CF 1						
Phenol	108-95-2	2.9E+09 E	1.3E+11 E	CF 2						
Styrene	100-42-5	3.4E+05 S	1.0E+08 E	NA 3						
Tetrachloroethylene	127-18-4	3.8E+03 S	3.5E+06 E	CF 1						
Toluene	108-88-3	4.4E+04 S	2.4E+07 E	NA 3						
Vinyl acetate	108-05-4	3.2E+04 S	1.6E+07 E	NA 3						
Xylene (mixed isomers)	1330-20-7	1.1E+05 S	3.7E+07 E	NA 3						

Table A-2. Summary of 90th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	1.2E+04	5.6E+06 E	CF 1	4.1E-01	1.2E+02	AR 1	9.7E-04	2.7E-01	AR 1
Acrylonitrile	107-13-1	1.2E+02	5.0E+04	CF 1	6.9E-02	1.7E+01	NA 3	1.6E-03	3.9E-01	NA 3
Antimony	7440-36-0	3.2E+03	1.2E+06 E	CF 2	1.7E+00	8.5E+02	CR 2	4.8E-02	1.9E+01	CR 2
Barium	7440-39-3	1.8E+05 S	6.8E+07 E	NA 3	6.1E+03	7.8E+06 E	CR 2	2.0E+01	2.7E+04	CR 2
Benzene	71-43-2	7.0E+02	2.5E+05	CF 1	2.3E+01	1.3E+04	AR 1	6.1E-02	2.3E+01	AR 1
Butylbenzylphthalate	85-68-7	2.3E+08 E	1.1E+11 E	CF 2	L					
Cadmium	7440-43-9	2.5E+03	7.7E+05	CF 2	3.5E+01	3.9E+04	CR 2	1.3E-01	1.6E+02	CR 2
Chloroform	67-66-3	3.4E+04	1.2E+07 E	NA 3	2.4E+02	2.1E+05	NA 3	1.5E-02	3.9E+00	NA 3
Chromium (III)	16065-83-1	1.8E+08 E	5.8E+10 E	CF 2	7.7E+12 E	3.0E+16 E	CR 2	1.7E+09 E	8.2E+12 E	CR 2
Chromium (VI)	18540-29-9	6.0E+03	3.0E+06 E	CF 1	2.0E+01	1.3E+04	CR 2	4.5E-01	3.2E+02	CR 2
Cobalt	7440-48-4	5.1E+03	2.0E+06 E	NA 3	6.6E+04	1.7E+08 E	CR 2	9.9E+01	2.5E+05	CR 2
Copper	7440-50-8	8.5E+03	3.6E+06 E	NA 3	8.8E+03	1.4E+07 E	NA 5	2.4E+01	3.8E+04	NA 5
Cresol, m-	108-39-4	3.7E+06 E	4.4E+09 E	CF 2	8.0E+04	5.7E+07 E	CR 2	3.4E+00	1.0E+03	CR 2
Cresol, o-	95-48-7	1.8E+07 E	1.5E+10 E	CF 2	4.9E+05 S	4.7E+08 E	CR 2	3.4E+00	1.0E+03	CR 2
Cresol, p-	106-44-5	2.9E+06 E	2.7E+09 E	CF 2	4.9E+04	4.7E+07 E	CR 2	3.4E-01	1.0E+02	CR 2
Di(2-ethylhexylphthalate)	117-81-7	2.5E+06 E	1.4E+09 E	AF 1	L					
Dibutylphthalate	84-74-2	9.3E+07 E	8.3E+10 E	CF 2	L					
Dichloromethane	75-09-2	6.6E+03	2.6E+06 E	CF 1	2.4E+02	9.6E+04	NA 3	5.3E-01	1.6E+02	NA 3
Dimethylphenol, 2,4-	105-67-9	4.8E+07 E	2.8E+10 E	CF 2	4.9E+07 E	7.2E+10 E	CR 2	7.6E-01	2.1E+02	CR 2
Divalent mercury	7439-97-6(d)	5.4E+02	2.3E+05	F 2	2.4E+02	3.8E+05	CR 2	3.3E-01	9.2E+02	CR 2
Ethylbenzene	100-41-4	1.4E+06 E	6.1E+08 E	NA 3	L					
Ethylene glycol	107-21-1	1.6E+06 E	7.5E+09 E	NA 3	5.7E+03	1.8E+06 E	CR 2	1.4E+02	4.1E+04	CR 2
Formaldehyde	50-00-0	1.9E+04	1.0E+07 E	CF 1	1.3E+03	4.0E+05	CR 2	1.4E+01	4.1E+03	CR 2
Lead	7439-92-1	3.7E+05	1.3E+08 E	NA 4	4.8E+04	1.6E+08 E	NA 5	1.3E+01	5.2E+04	NA 5
Mercury	7439-97-6(e)	2.1E+02 S	6.6E+04	NA 3	4.1E+03 S	9.6E+06 E	NA 3	1.3E+00 S	2.9E+03 S	NA 3
Methanol	67-56-1	1.6E+07 E	9.5E+09 E	CF 2	2.9E+04	9.4E+06 E	CR 2	3.4E+01	1.0E+04	CR 2
Methyl ethyl ketone	78-93-3	8.5E+05 S	3.6E+08 E	NA 3	2.2E+02	6.5E+04	NA 3	1.5E+00	4.2E+02	NA 3
Methyl isobutyl ketone	108-10-1	9.9E+04 S	4.2E+07 E	NA 3	7.5E+01	3.0E+04	NA 3	6.1E-02	1.7E+01	NA 3
Methyl methacrylate	80-62-6	3.2E+05 S	1.1E+08 E	NA 3	4.3E+01	1.3E+04	NA 3	2.7E-01	6.8E+01	NA 3

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	2.2E+06 E	1.2E+09 E	CF 2	1.2E+03	4.0E+05	CR 2	6.8E+00	2.1E+03	CR 2
Nickel	7440-02-0	3.1E+04	1.4E+07 E	NA 3	8.0E+03	1.6E+07 E	CR 2	1.5E+01	3.3E+04	CR 2
Nickel oxide	1313-99-1	6.3E+04	2.5E+07 E	NA 3	B					
Pentachlorophenol	87-86-5	1.0E+05	5.2E+07 E	AF 1	5.3E+01	3.2E+04	AR 1	5.0E-02	2.5E+01	AR 1
Phenol	108-95-2	1.5E+08 E	1.1E+11 E	CF 2	2.2E+05	1.3E+08 E	CR 2	4.1E+01	1.2E+04	CR 2
Selenium	7782-49-2	5.7E+04 S	1.9E+07 E	CF 2	2.4E+01	9.2E+03	CR 2	6.9E-01	2.2E+02	CR 2
Silver	7440-22-4	4.9E+03	1.6E+06 E	CF 2	1.0E+04	2.7E+07 E	CR 2	1.5E+01	4.1E+04	CR 2
Styrene	100-42-5	2.4E+06 E	1.1E+09 E	NA 3	1.8E+07 E	5.6E+10 E	NA 3	7.6E+00	2.1E+03 S	CR 2
Tetrachloroethylene	127-18-4	2.3E+04 S	7.3E+06 E	CF 1	1.5E+01	5.9E+03	NA 3	4.2E-02	1.0E+01	NA 3
Tin	7440-31-5	8.8E+06 E	2.9E+09 E	CF 2	6.3E+10 E	2.0E+14 E	CR 2	1.7E+07 E	5.6E+10 E	CR 2
Toluene	108-88-3	2.4E+05 S	8.4E+07 E	NA 3	1.2E+03	1.2E+06 E	NA 3	9.6E-02	6.3E+01	NA 3
Vinyl acetate	108-05-4	1.2E+05 S	4.2E+07 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	6.3E+05 S	3.1E+08 E	NA 3	L					
Zinc	7440-66-6	1.2E+05	3.7E+07 E	CF 2	6.1E+05 S	1.3E+09 E	CR 2	5.0E+02	1.3E+06 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	1.2E+04	5.4E+06 E	AF 1	4.1E-01	1.0E+02	AR 1	9.7E-04	2.4E-01	AR 1
Acrylonitrile	107-13-1	1.2E+02	5.0E+04	CF 1	6.9E-02	1.7E+01	NA 3	1.6E-03	3.5E-01	NA 3
Antimony	7440-36-0	3.2E+03	1.1E+06 E	CF 2	1.7E+00	7.0E+02	CR 2	4.8E-02	1.8E+01	CR 2
Barium	7440-39-3	1.8E+05 S	7.0E+07 E	NA 3	6.1E+03	4.2E+06 E	CR 2	2.0E+01	1.4E+04	CR 2
Benzene	71-43-2	7.0E+02	2.6E+05	CF 1	2.3E+01	9.8E+03	AR 1	6.1E-02	2.0E+01	AR 1
Butylbenzylphthalate	85-68-7	2.3E+08 E	1.3E+11 E	CF 2	L					
Cadmium	7440-43-9	2.5E+03	7.9E+05	CF 2	3.5E+01	2.3E+04	CR 2	1.3E-01	9.0E+01	CR 2
Chloroform	67-66-3	3.4E+04	1.3E+07 E	NA 3	2.4E+02	1.3E+05	NA 3	1.5E-02	3.1E+00	NA 3
Chromium (III)	16065-83-1	1.8E+08 E	6.5E+10 E	CF 2	7.7E+12 E	9.4E+15 E	CR 2	1.7E+09 E	2.7E+12 E	CR 2
Chromium (VI)	18540-29-9	6.0E+03	3.0E+06 E	CF 1	3.3E+01	1.7E+04	CR 2	6.1E-01	3.5E+02	CR 2
Cobalt	7440-48-4	5.1E+03	1.9E+06 E	NA 3	9.4E+04	1.1E+08 E	CR 2	1.3E+02	1.3E+05	CR 2
Copper	7440-50-8	8.5E+03	3.3E+06 E	NA 3	8.8E+03	7.7E+06 E	NA 5	2.4E+01	2.0E+04	NA 5
Cresol, m-	108-39-4	3.7E+06 E	2.3E+09 E	AF 2	8.0E+04	3.7E+07 E	CR 2	3.4E+00	9.0E+02	CR 2
Cresol, o-	95-48-7	1.8E+07 E	1.0E+10 E	AF 2	4.9E+05 S	2.6E+08 E	CR 2	3.4E+00	9.0E+02	CR 2
Cresol, p-	106-44-5	2.9E+06 E	1.9E+09 E	CF 2	4.9E+04	2.6E+07 E	CR 2	3.4E-01	9.0E+01	CR 2
Di(2-ethylhexylphthalate)	117-81-7	2.5E+06 E	1.4E+09 E	AF 1	L					
Dibutylphthalate	84-74-2	9.3E+07 E	6.5E+10 E	CF 2	L					
Dichloromethane	75-09-2	6.6E+03	2.7E+06 E	CF 1	2.4E+02	8.3E+04	NA 3	5.3E-01	1.4E+02	AR 1
Dimethylphenol, 2,4-	105-67-9	4.8E+07 E	2.5E+10 E	CF 2	4.9E+07 E	2.5E+10 E	CR 2	7.6E-01	1.6E+02	CR 2
Divalent mercury	7439-97-6(d)	5.4E+02	2.4E+05	F 2	2.4E+02	1.7E+05	CR 2	3.3E-01	4.6E+02	CR 2
Ethylbenzene	100-41-4	1.4E+06 E	5.4E+08 E	NA 3	L					
Ethylene glycol	107-21-1	1.6E+06 E	2.8E+09 E	NA 3	5.7E+03	1.5E+06 E	CR 2	1.4E+02	3.6E+04	CR 2
Formaldehyde	50-00-0	1.9E+04	9.4E+06 E	CF 1	1.3E+03	3.3E+05	CR 2	1.4E+01	3.6E+03	CR 2
Lead	7439-92-1	3.7E+05	1.3E+08 E	NA 4	4.8E+04	6.4E+07 E	NA 5	1.3E+01	2.1E+04	NA 5
Mercury	7439-97-6(e)	2.1E+02 S	6.5E+04	NA 3	4.1E+03 S	3.6E+06 E	NA 3	1.3E+00 S	1.1E+03 S	NA 3
Methanol	67-56-1	1.6E+07 E	9.0E+09 E	CF 2	2.9E+04	7.5E+06 E	CR 2	3.4E+01	9.0E+03	CR 2
Methyl ethyl ketone	78-93-3	8.5E+05 S	3.6E+08 E	NA 3	2.2E+02	5.4E+04	NA 3	1.5E+00	3.9E+02	NA 3
Methyl isobutyl ketone	108-10-1	9.9E+04 S	4.0E+07 E	NA 3	7.5E+01	2.2E+04	NA 3	6.1E-02	1.6E+01	NA 3
Methyl methacrylate	80-62-6	3.2E+05 S	1.2E+08 E	NA 3	4.3E+01	1.0E+04	NA 3	2.7E-01	6.2E+01	NA 3

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	2.2E+06 E	1.1E+09 E	CF 2	1.2E+03	3.1E+05	CR 2	6.8E+00	1.8E+03	CR 2
Nickel	7440-02-0	3.1E+04	1.3E+07 E	NA 3	1.2E+04	1.1E+07 E	CR 2	1.9E+01	2.1E+04	CR 2
Nickel oxide	1313-99-1	6.3E+04	2.6E+07 E	NA 3	B					
Pentachlorophenol	87-86-5	1.0E+05	5.1E+07 E	AF 1	5.3E+01	2.0E+04	AR 1	5.0E-02	1.7E+01	AR 1
Phenol	108-95-2	1.5E+08 E	8.1E+10 E	CF 2	2.2E+05	8.7E+07 E	CR 2	4.1E+01	1.1E+04	CR 2
Selenium	7782-49-2	5.7E+04 S	1.9E+07 E	CF 2	2.4E+01	8.5E+03	CR 2	6.9E-01	2.0E+02	CR 2
Silver	7440-22-4	4.9E+03	1.6E+06 E	CF 2	1.5E+04	1.7E+07 E	CR 2	2.1E+01	2.3E+04	CR 2
Styrene	100-42-5	2.4E+06 E	1.0E+09 E	NA 3	1.8E+07 E	1.5E+10 E	NA 3	7.6E+00	1.6E+03 S	CR 2
Tetrachloroethylene	127-18-4	2.3E+04 S	7.7E+06 E	CF 1	1.5E+01	4.5E+03	NA 3	4.2E-02	8.3E+00	NA 3
Tin	7440-31-5	8.8E+06 E	2.9E+09 E	CF 2	6.3E+10 E	7.7E+13 E	CR 2	1.7E+07 E	1.9E+10 E	CR 2
Toluene	108-88-3	2.4E+05 S	8.4E+07 E	NA 3	1.2E+03	6.7E+05	NA 3	9.6E-02	3.7E+01	NA 3
Vinyl acetate	108-05-4	1.2E+05 S	4.6E+07 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	6.3E+05 S	2.6E+08 E	NA 3	L					
Zinc	7440-66-6	1.2E+05	3.9E+07 E	CF 2	6.1E+05 S	6.2E+08 E	CR 2	5.0E+02	7.6E+05	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	4.2E+02	8.4E+04	AF 1	7.5E-03	3.7E+00	AR 1			
Acrylonitrile	107-13-1	2.7E+00	1.0E+04	CF 1	5.0E-03	3.0E+00	NA 3			
Antimony	7440-36-0				2.1E-01	1.2E+02	CR 2			
Barium	7440-39-3				1.4E+03	1.3E+06 E	CR 2			
Benzene	71-43-2	1.3E+01	5.4E+04	CF 1	2.7E-01	1.7E+02	AR 1			
Butylbenzylphthalate	85-68-7	1.7E+08 E	2.0E+11 E	F 2	1.5E+04 S	1.6E+07 E	CR 2			
Cadmium	7440-43-9				7.3E+00	7.0E+03	CR 2			
Chloroform	67-66-3	2.5E+02	1.1E+06 E	NA 3	6.2E-02	5.0E+01	NA 3			
Chromium (III)	16065-83-1				9.6E+10 E	1.3E+14 E	CR 2			
Chromium (VI)	18540-29-9				3.3E+00	2.1E+03	CR 2			
Cobalt	7440-48-4				1.6E+04	2.2E+07 E	CR 2			
Copper	7440-50-8				2.0E+03	2.2E+06 E	NA 5			
Cresol, m-	108-39-4	6.0E+03	8.4E+06 E	CF 2	1.3E+01	7.5E+03	CR 2			
Cresol, o-	95-48-7	4.1E+04 S	8.6E+07 E	AF 2	1.6E+01	8.0E+03	CR 2			
Cresol, p-	106-44-5	2.6E+04 S	5.1E+07 E	AF 2	1.8E+00	8.1E+02	CR 2			
Di(2-ethylhexylphthalate)	117-81-7	1.9E+05 S	1.8E+08 E	AF 1	3.8E+04 S	4.4E+07 E	CR 1			
Dibutylphthalate	84-74-2	1.1E+06 E	2.0E+09 E	CF 2	1.7E+04 S	1.5E+07 E	CR 2			
Dichloromethane	75-09-2	1.3E+02	6.1E+05	CF 1	2.1E+00	1.4E+03	NA 3			
Dimethylphenol, 2,4-	105-67-9	8.5E+04 S	1.1E+08 E	CF 2	9.4E+00	5.3E+03	CR 2			
Divalent mercury	7439-97-6(d)	4.7E+01	5.6E+03	F 2	1.8E+01	1.6E+04	CR 2			
Ethylbenzene	100-41-4	6.8E+03 S	2.5E+07 E	NA 3	4.0E+00	3.3E+03	NA 3			
Ethylene glycol	107-21-1	1.7E+04	3.9E+07 E	NA 3	5.0E+02	2.4E+05	CR 2			
Formaldehyde	50-00-0	4.6E+02	5.8E+05	CF 1	5.3E+01	2.5E+04	CR 2			
Lead	7439-92-1				1.1E+04	1.5E+07 E	NA 5			
Mercury	7439-97-6(e)	9.1E-01 S	3.2E+03	NA 3	1.5E+01 S	3.0E+04	NA 3			
Methanol	67-56-1	3.0E+05	8.3E+08 E	CF 2	1.3E+02	6.2E+04	CR 2			
Methyl ethyl ketone	78-93-3	1.8E+04	5.0E+07 E	NA 3	4.9E+00	2.6E+03	NA 3			
Methyl isobutyl ketone	108-10-1	1.1E+03	3.4E+06 E	NA 3	2.1E-01	1.1E+02	NA 3			
Methyl methacrylate	80-62-6	4.4E+03	1.6E+07 E	NA 3	9.2E-01	6.8E+02	NA 3			

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
n-Butyl alcohol	71-36-3	4.4E+04	1.2E+08 E	AF 2	2.7E+01	1.2E+04	CR 2			
Nickel	7440-02-0				1.8E+03	1.9E+06 E	CR 2			
Nickel oxide	1313-99-1				B					
Pentachlorophenol	87-86-5	3.6E+03 S	3.0E+06 E	CF 1	1.9E+00	2.7E+03	AR 1			
Phenol	108-95-2	9.7E+05 S	1.4E+09 E	CF 2	1.8E+02	8.1E+04	CR 2			
Selenium	7782-49-2				3.6E+00	2.0E+03	CR 2			
Silver	7440-22-4				1.9E+03	2.6E+06 E	CR 2			
Styrene	100-42-5	6.8E+03 S	2.5E+07 E	NA 3	1.8E+00	1.6E+03	NA 3			
Tetrachloroethylene	127-18-4	2.5E+02 S	1.0E+06 E	CF 1	1.7E-01	1.8E+02	NA 3			
Tin	7440-31-5				4.5E+08 E	1.3E+12 E	CR 2			
Toluene	108-88-3	1.7E+03 S	6.5E+06 E	NA 3	5.0E-01	4.0E+02	NA 3			
Vinyl acetate	108-05-4	8.7E+02	3.6E+06 E	NA 3	G					
Xylene (mixed isomers)	1330-20-7	2.5E+03 S	9.3E+06 E	NA 3	1.3E+00	1.3E+03	NA 3			
Zinc	7440-66-6				1.2E+05	1.5E+08 E	CR 2			

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis
Acrylamide	79-06-1	9.6E+04	1.2E+07 E	AF 1						
Acrylonitrile	107-13-1	7.6E+01	3.2E+04	CF 1						
Benzene	71-43-2	1.1E+02	9.7E+04	CF 1						
Butylbenzylphthalate	85-68-7	3.0E+10 E	3.4E+12 E	CF 2						
Chloroform	67-66-3	1.3E+03	1.6E+06 E	NA 3						
Cresol, m-	108-39-4	1.8E+06 E	4.8E+07 E	CF 2						
Cresol, o-	95-48-7	1.5E+07 E	6.8E+08 E	CF 2						
Cresol, p-	106-44-5	1.3E+07 E	5.8E+08 E	CF 2						
Di(2-ethylhexylphthalate)	117-81-7	2.0E+07 E	9.8E+08 E	AF 1						
Dibutylphthalate	84-74-2	2.4E+08 E	6.2E+09 E	CF 2						
Dichloromethane	75-09-2	1.1E+03	1.0E+06 E	CF 1						
Dimethylphenol, 2,4-	105-67-9	3.4E+07 E	9.3E+08 E	CF 2						
Divalent mercury	7439-97-6(d)	2.2E+04	2.2E+06 E	F 2						
Ethylbenzene	100-41-4	1.1E+05 S	5.0E+07 E	NA 3						
Ethylene glycol	107-21-1	3.5E+06 E	9.4E+07 E	NA 3						
Formaldehyde	50-00-0	6.2E+04	8.9E+06 E	CF 1						
Mercury	7439-97-6(e)	5.6E+00 S	5.1E+03	NA 3						
Methanol	67-56-1	2.7E+07 E	6.1E+09 E	CF 2						
Methyl ethyl ketone	78-93-3	8.6E+05 S	2.2E+08 E	NA 3						
Methyl isobutyl ketone	108-10-1	4.4E+04 S	1.2E+07 E	NA 3						
Methyl methacrylate	80-62-6	8.9E+04 S	4.0E+07 E	NA 3						
n-Butyl alcohol	71-36-3	4.3E+06 E	8.5E+08 E	CF 2						
Pentachlorophenol	87-86-5	5.7E+05 S	8.4E+07 E	CF 1						
Phenol	108-95-2	5.4E+08 E	2.3E+10 E	CF 2						
Styrene	100-42-5	1.2E+05 S	5.1E+07 E	NA 3						
Tetrachloroethylene	127-18-4	1.3E+03 S	1.6E+06 E	CF 1						
Toluene	108-88-3	1.6E+04 S	1.2E+07 E	NA 3						
Vinyl acetate	108-05-4	1.1E+04	7.8E+06 E	NA 3						
Xylene (mixed isomers)	1330-20-7	3.8E+04 S	1.8E+07 E	NA 3						

Table A-3. Summary of 95th Percentile Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground			Groundwater					
		Cw (mg/kg)			Cw (mg/kg)			CL (mg/L)		
		WMU	Waste Stream	Basis	WMU	Waste Stream	Basis	WMU	Waste Stream	Basis

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	6.3E+08 E	AF 1	1.2E+04	AR 1	1.6E+01	AR 1
Acrylonitrile	107-13-1	5.9E+06 E	CF 1	6.5E+02	NA 3	2.2E+01	NA 3
Antimony	7440-36-0	5.8E+07 E	CF 2	1.4E+04	CR 2	5.9E+02	CR 2
Barium	7440-39-3	9.3E+09 E	CF 2	3.3E+10 E	CR 2	1.4E+08 E	CR 2
Benzene	71-43-2	2.1E+07 E	CF 1	3.3E+05	AR 1	1.1E+03	AR 1
Butylbenzylphthalate	85-68-7	1.2E+13 E	CF 2	L			
Cadmium	7440-43-9	3.3E+07 E	CF 2	4.2E+07 E	CR 2	2.0E+05	CR 2
Chloroform	67-66-3	9.8E+08 E	CF 2	9.3E+05	NA 3	1.2E+02	NA 3
Chromium (III)	16065-83-1	1.2E+12 E	CF 2	5.9E+38 E	CR 2	9.9E+34 E	CR 2
Chromium (VI)	18540-29-9	7.3E+09 E	NA 3	1.9E+05	CR 2	6.8E+03	CR 2
Cobalt	7440-48-4	5.7E+08 E	NA 3	4.1E+20 E	CR 2	4.4E+17 E	CR 2
Copper	7440-50-8	9.7E+08 E	NA 3	1.5E+15 E	NA 5	3.1E+12 E	NA 5
Cresol, m-	108-39-4	8.9E+11 E	CF 2	9.2E+08 E	CR 2	3.0E+04 S	CR 2
Cresol, o-	95-48-7	4.4E+12 E	CF 2	3.7E+10 E	CR 2	3.0E+04 S	CR 2
Cresol, p-	106-44-5	1.8E+12 E	CF 2	3.7E+09 E	CR 2	3.0E+03	CR 2
Di(2-ethylhexylphthalate)	117-81-7	3.1E+11 E	AF 1	L			
Dibutylphthalate	84-74-2	2.9E+13 E	CF 2	L			
Dichloromethane	75-09-2	2.4E+08 E	CF 1	2.5E+06 E	NA 3	9.0E+03	NA 3
Dimethylphenol, 2,4-	105-67-9	4.8E+12 E	CF 2	2.6E+33 E	AR 2	2.6E+03	AR 2
Divalent mercury	7439-97-6(d)	4.2E+06 E	F 2	8.9E+34 E	CR 2	2.0E+31 E	CR 2
Ethylbenzene	100-41-4	9.6E+10 E	NA 3	L			
Ethylene glycol	107-21-1	8.6E+13 E	CF 2	6.3E+07 E	CR 2	1.2E+06 E	CR 2
Formaldehyde	50-00-0	1.5E+11 E	CF 2	1.7E+06 E	NA 3	1.8E+04	NA 3
Lead	7439-92-1	2.7E+12 E	NA 4	2.1E+35 E	NA 5	4.0E+31 E	NA 5
Mercury	7439-97-6(e)	5.6E+06 E	NA 3	4.6E+16 E	NA 3	2.7E+13 E	NA 3
Methanol	67-56-1	1.1E+12 E	CF 2	4.1E+08 E	CR 2	3.0E+05	CR 2
Methyl ethyl ketone	78-93-3	4.6E+10 E	NA 3	1.2E+06 E	NA 3	1.2E+04	NA 3
Methyl isobutyl ketone	108-10-1	4.8E+09 E	NA 3	2.6E+05	NA 3	4.8E+02	NA 3
Methyl methacrylate	80-62-6	1.2E+10 E	NA 3	2.7E+05	NA 3	3.7E+03	NA 3
n-Butyl alcohol	71-36-3	1.1E+11 E	CF 2	6.1E+06 E	CR 2	6.0E+04	CR 2
Nickel	7440-02-0	3.8E+09 E	NA 3	1.5E+14 E	CR 2	3.4E+11 E	CR 2

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1	7.1E+09 E	NA 3	B			
Pentachlorophenol	87-86-5	8.7E+08 E	CF 1	1.8E+06 E	AR 1	5.4E+02	AR 1
Phenol	108-95-2	2.7E+13 E	CF 2	1.2E+09 E	CR 2	3.6E+05 S	CR 2
Selenium	7782-49-2	1.4E+09 E	CF 2	3.0E+05	CR 2	1.0E+04	CR 2
Silver	7440-22-4	4.9E+07 E	CF 2	4.0E+35 E	CR 2	3.3E+32 E	CR 2
Styrene	100-42-5	1.9E+11 E	NA 3	2.6E+33 E	AR 2	2.6E+03 S	AR 2
Tetrachloroethylene	127-18-4	5.8E+08 E	CF 1	7.1E+04	NA 3	3.9E+02 S	NA 3
Tin	7440-31-5	1.1E+11 E	CF 2	1.6E+38 E	CR 2	4.0E+34 E	CR 2
Toluene	108-88-3	8.0E+09 E	NA 3	2.5E+07 E	NA 3	5.3E+02 S	NA 3
Vinyl acetate	108-05-4	4.4E+09 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	5.7E+10 E	NA 3	L			
Zinc	7440-66-6	1.5E+09 E	CF 2	4.0E+37 E	CR 2	2.0E+34 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	3.5E+08 E	AF 1	6.4E+03	AR 1	8.5E+00	AR 1
Acrylonitrile	107-13-1	3.3E+06 E	CF 1	3.6E+02	NA 3	1.2E+01	NA 3
Antimony	7440-36-0	3.2E+07 E	CF 2	7.5E+03	CR 2	3.3E+02	CR 2
Barium	7440-39-3	5.1E+09 E	CF 2	1.8E+10 E	CR 2	7.4E+07 E	CR 2
Benzene	71-43-2	1.1E+07 E	CF 1	1.8E+05	AR 1	5.9E+02	AR 1
Butylbenzylphthalate	85-68-7	6.4E+12 E	CF 2	L			
Cadmium	7440-43-9	1.8E+07 E	CF 2	2.3E+07 E	CR 2	1.1E+05	CR 2
Chloroform	67-66-3	5.4E+08 E	CF 2	5.1E+05	NA 3	6.4E+01	NA 3
Chromium (III)	16065-83-1	6.4E+11 E	CF 2	3.2E+38 E	CR 2	5.4E+34 E	CR 2
Chromium (VI)	18540-29-9	4.0E+09 E	NA 3	1.0E+05	CR 2	3.8E+03	CR 2
Cobalt	7440-48-4	3.2E+08 E	NA 3	2.2E+20 E	CR 2	2.4E+17 E	CR 2
Copper	7440-50-8	5.3E+08 E	NA 3	8.1E+14 E	NA 5	1.7E+12 E	NA 5
Cresol, m-	108-39-4	4.9E+11 E	CF 2	5.0E+08 E	CR 2	1.6E+04	CR 2
Cresol, o-	95-48-7	2.4E+12 E	CF 2	2.0E+10 E	CR 2	1.6E+04	CR 2
Cresol, p-	106-44-5	9.7E+11 E	CF 2	2.0E+09 E	CR 2	1.6E+03	CR 2
Di(2-ethylhexylphthalate)	117-81-7	1.7E+11 E	AF 1	L			
Dibutylphthalate	84-74-2	1.6E+13 E	CF 2	L			
Dichloromethane	75-09-2	1.3E+08 E	CF 1	1.4E+06 E	NA 3	5.0E+03	NA 3
Dimethylphenol, 2,4-	105-67-9	2.6E+12 E	CF 2	4.3E+33 E	CR 2	4.3E+03	CR 2
Divalent mercury	7439-97-6(d)	2.3E+06 E	F 2	4.9E+34 E	CR 2	1.1E+31 E	CR 2
Ethylbenzene	100-41-4	5.3E+10 E	NA 3	L			
Ethylene glycol	107-21-1	4.7E+13 E	CF 2	3.4E+07 E	CR 2	6.6E+05	CR 2
Formaldehyde	50-00-0	8.2E+10 E	CF 2	9.5E+05	NA 3	9.8E+03	NA 3
Lead	7439-92-1	1.5E+12 E	NA 4	1.2E+35 E	NA 5	2.2E+31 E	NA 5
Mercury	7439-97-6(e)	3.1E+06 E	NA 3	2.5E+16 E	NA 3	1.5E+13 E	NA 3
Methanol	67-56-1	6.1E+11 E	CF 2	2.3E+08 E	CR 2	1.6E+05	CR 2
Methyl ethyl ketone	78-93-3	2.5E+10 E	NA 3	6.5E+05	NA 3	6.7E+03	NA 3
Methyl isobutyl ketone	108-10-1	2.7E+09 E	NA 3	1.5E+05	NA 3	2.6E+02	NA 3
Methyl methacrylate	80-62-6	6.3E+09 E	NA 3	1.5E+05	NA 3	2.1E+03	NA 3
n-Butyl alcohol	71-36-3	6.1E+10 E	CF 2	3.3E+06 E	CR 2	3.3E+04	CR 2
Nickel	7440-02-0	2.1E+09 E	NA 3	8.3E+13 E	CR 2	1.9E+11 E	CR 2

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1	3.9E+09 E	NA 3	B			
Pentachlorophenol	87-86-5	4.8E+08 E	CF 1	9.7E+05	AR 1	3.0E+02	AR 1
Phenol	108-95-2	1.5E+13 E	CF 2	6.8E+08 E	CR 2	2.0E+05 S	CR 2
Selenium	7782-49-2	7.5E+08 E	CF 2	1.6E+05	CR 2	5.5E+03	CR 2
Silver	7440-22-4	2.7E+07 E	CF 2	2.2E+35 E	CR 2	1.8E+32 E	CR 2
Styrene	100-42-5	1.0E+11 E	NA 3	4.3E+34 E	CR 2	4.3E+04 S	CR 2
Tetrachloroethylene	127-18-4	3.2E+08 E	CF 1	3.9E+04	NA 3	2.2E+02 S	NA 3
Tin	7440-31-5	5.8E+10 E	CF 2	8.8E+37 E	CR 2	2.2E+34 E	CR 2
Toluene	108-88-3	4.4E+09 E	NA 3	1.4E+07 E	NA 3	2.9E+02	NA 3
Vinyl acetate	108-05-4	2.4E+09 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	3.1E+10 E	NA 3	L			
Zinc	7440-66-6	8.3E+08 E	CF 2	2.2E+37 E	CR 2	1.1E+34 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	1.5E+07 E	AF 1	5.0E+01	AR 1	6.9E+01	CR 2
Acrylonitrile	107-13-1	2.7E+05	CF 1	2.2E+01	NA 3	3.3E+02	CR 2
Antimony	7440-36-0			1.4E+03	CR 2	1.3E+03	CR 2
Barium	7440-39-3			9.3E+06 E	CR 2	7.2E+06 E	CR 2
Benzene	71-43-2	7.4E+05	CF 1	1.9E+03	AR 1		
Butylbenzylphthalate	85-68-7	2.0E+13 E	F 2	1.9E+07 E	CR 2	7.3E+05	CR 2
Cadmium	7440-43-9			7.3E+04	CR 2	5.8E+04	CR 2
Chloroform	67-66-3	7.4E+06 E	NA 3	2.4E+02	NA 3	3.3E+03	CR 2
Chromium (III)	16065-83-1			6.0E+34 E	CR 2	7.8E+33 E	CR 2
Chromium (VI)	18540-29-9			2.3E+04	CR 2	2.2E+04	CR 2
Cobalt	7440-48-4			2.1E+13 E	CR 2	1.0E+13 E	CR 2
Copper	7440-50-8			3.6E+09 E	NA 5	2.3E+09 E	NA 5
Cresol, m-	108-39-4	1.0E+08 E	CF 2	4.8E+04	CR 2	1.7E+04	CR 2
Cresol, o-	95-48-7	7.3E+09 E	CF 2	5.9E+04	CR 2	1.7E+04	CR 2
Cresol, p-	106-44-5	2.3E+10 E	CF 2	6.5E+03	CR 2	1.7E+03	CR 2
Di(2-ethylhexylphthalate)	117-81-7	3.4E+10 E	AF 1	9.1E+08 E	AR 1	1.0E+05	CR 2
Dibutylphthalate	84-74-2	1.2E+10 E	CF 2	1.9E+07 E	CR 2	5.0E+05	CR 2
Dichloromethane	75-09-2	7.5E+06 E	CF 1	8.8E+03	NA 3	2.0E+04	CR 2
Dimethylphenol, 2,4-	105-67-9	4.8E+09 E	CF 2	2.6E+04	CR 2	6.7E+03	CR 2
Divalent mercury	7439-97-6(d)	6.8E+06 E	F 2	1.6E+31 E	CR 2	1.6E+30 E	CR 2
Ethylbenzene	100-41-4	5.5E+08 E	NA 3	6.1E+03	NA 3	3.7E+04	CR 2
Ethylene glycol	107-21-1	3.5E+08 E	CF 2	2.2E+06 E	CR 2	6.7E+05	CR 2
Formaldehyde	50-00-0	1.7E+09 E	CF 2	3.4E+04	NA 3	6.7E+04	CR 2
Lead	7439-92-1			2.2E+31 E	NA 5	3.1E+30 E	NA 5
Mercury	7439-97-6(e)	2.0E+04	NA 3	1.1E+09 E	NA 3		
Methanol	67-56-1	5.7E+10 E	CF 2	5.6E+05	CR 2	1.7E+05	CR 2
Methyl ethyl ketone	78-93-3	2.7E+09 E	NA 3	2.3E+04	NA 3	2.0E+05	CR 2
Methyl isobutyl ketone	108-10-1	1.7E+08 E	NA 3	9.1E+02	NA 3	2.7E+04	CR 2
Methyl methacrylate	80-62-6	3.1E+08 E	NA 3	3.6E+03	NA 3	4.7E+05	CR 2
n-Butyl alcohol	71-36-3	5.2E+09 E	CF 2	1.1E+05	CR 2	3.3E+04	CR 2
Nickel	7440-02-0			5.0E+08 E	CR 2	3.3E+08 E	CR 2

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1			B			
Pentachlorophenol	87-86-5	1.9E+07 E	CF 1	3.2E+03	AR 1	1.1E+04	CR 2
Phenol	108-95-2	5.1E+10 E	CF 2	6.6E+05	CR 2	2.0E+05	CR 2
Selenium	7782-49-2			3.5E+04	CR 2	3.3E+04	CR 2
Silver	7440-22-4			9.9E+13 E	CR 2	4.2E+13 E	CR 2
Styrene	100-42-5	3.7E+08 E	NA 3	5.0E+03	NA 3	6.7E+04	CR 2
Tetrachloroethylene	127-18-4	8.7E+06 E	CF 1	5.0E+02	NA 3	3.3E+03	CR 2
Tin	7440-31-5			1.7E+34 E	CR 2	3.1E+33 E	CR 2
Toluene	108-88-3	8.6E+07 E	NA 3	1.5E+03	NA 3	6.7E+04	CR 2
Vinyl acetate	108-05-4	8.2E+07 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	1.2E+08 E	NA 3	2.1E+03	NA 3	7.4E+05	CR 2
Zinc	7440-66-6			1.7E+20 E	CR 2	5.0E+19 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	4.4E+09 E	AF 1				
Acrylonitrile	107-13-1	1.3E+07 E	CF 1				
Benzene	71-43-2	5.8E+06 E	CF 1				
Butylbenzylphthalate	85-68-7	4.2E+15 E	F 2				
Chloroform	67-66-3	2.6E+07 E	NA 3				
Cresol, m-	108-39-4	1.3E+17 E	CF 2				
Cresol, o-	95-48-7	1.4E+14 E	CF 2				
Cresol, p-	106-44-5	4.0E+15 E	CF 2				
Di(2-ethylhexylphthalate)	117-81-7	2.7E+13 E	AF 1				
Dibutylphthalate	84-74-2						
Dichloromethane	75-09-2	4.9E+07 E	CF 1				
Dimethylphenol, 2,4-	105-67-9	5.2E+15 E	CF 2				
Divalent mercury	7439-97-6(d)	5.6E+08 E	F 2				
Ethylbenzene	100-41-4	2.6E+10 E	NA 3				
Ethylene glycol	107-21-1	3.7E+33 E	CF 2				
Formaldehyde	50-00-0	4.6E+11 E	CF 2				
Mercury	7439-97-6(e)	7.2E+04	NA 3				
Methanol	67-56-1	9.9E+12 E	CF 2				
Methyl ethyl ketone	78-93-3	2.6E+11 E	NA 3				
Methyl isobutyl ketone	108-10-1	1.5E+10 E	NA 3				
Methyl methacrylate	80-62-6	1.3E+10 E	NA 3				
n-Butyl alcohol	71-36-3	8.0E+11 E	CF 2				
Pentachlorophenol	87-86-5	5.7E+09 E	CF 1				
Phenol	108-95-2	9.8E+14 E	CF 2				
Styrene	100-42-5	3.8E+10 E	NA 3				
Tetrachloroethylene	127-18-4	5.1E+07 E	CF 1				
Toluene	108-88-3	1.0E+09 E	NA 3				
Vinyl acetate	108-05-4	6.7E+08 E	NA 3				
Xylene (mixed isomers)	1330-20-7	9.8E+09 E	NA 3				

Table A-4. Summary of Central Tendency Deterministic Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	1.2E+06 E	AF 1	3.0E+01	AR 1	4.0E-02	AR 1
Acrylonitrile	107-13-1	1.3E+04	CF 1	1.9E+00	NA 3	6.5E-02	NA 3
Antimony	7440-36-0	3.3E+05	CF 2	3.0E+01	CR 2	1.3E+00	CR 2
Barium	7440-39-3	2.6E+07 E	CF 2	1.6E+05	CR 2	6.5E+02	CR 2
Benzene	71-43-2	4.5E+04	CF 1	8.4E+02	AR 1	2.8E+00	AR 1
Butylbenzylphthalate	85-68-7	6.7E+10 E	CF 2	L			
Cadmium	7440-43-9	9.6E+04	CF 2	1.9E+03	CR 2	9.2E+00	CR 2
Chloroform	67-66-3	1.9E+06 E	NA 3	2.8E+03	NA 3	3.5E-01	NA 3
Chromium (III)	16065-83-1	1.0E+10 E	CF 2	1.4E+17 E	CR 2	2.4E+13 E	CR 2
Chromium (VI)	18540-29-9	1.1E+07 E	NA 3	3.7E+02	CR 2	1.3E+01	CR 2
Cobalt	7440-48-4	9.1E+05	NA 3	2.6E+07 E	CR 2	2.8E+04	CR 2
Copper	7440-50-8	1.5E+06 E	NA 3	1.3E+07 E	NA 5	2.7E+04	NA 5
Cresol, m-	108-39-4	6.7E+09 E	CF 2	2.7E+06 E	CR 2	8.5E+01	AR 2
Cresol, o-	95-48-7	2.0E+10 E	CF 2	4.4E+07 E	CR 2	8.5E+01	AR 2
Cresol, p-	106-44-5	1.0E+10 E	CF 2	4.4E+06 E	CR 2	9.0E+00	CR 2
Di(2-ethylhexylphthalate)	117-81-7	5.5E+08 E	AF 1	L			
Dibutylphthalate	84-74-2	1.6E+11 E	CF 2	L			
Dichloromethane	75-09-2	5.5E+05	AF 1	7.5E+03	NA 3	2.7E+01	NA 3
Dimethylphenol, 2,4-	105-67-9	3.8E+10 E	CF 2	1.4E+12 E	CR 2	2.3E+01	AR 2
Divalent mercury	7439-97-6(d)	3.6E+04	F 2	4.8E+05	CR 2	1.1E+02	CR 2
Ethylbenzene	100-41-4	1.7E+08 E	NA 3	L			
Ethylene glycol	107-21-1	4.9E+11 E	CF 2	1.9E+05	CR 2	3.6E+03	CR 2
Formaldehyde	50-00-0	2.1E+08 E	CF 2	5.2E+03	NA 3	5.4E+01	NA 3
Lead	7439-92-1	2.9E+08 E	NA 4	1.2E+06 E	NA 5	2.2E+02	NA 5
Mercury	7439-97-6(e)	1.0E+04	NA 3	1.8E+06 E	NA 3	1.0E+03 S	NA 3
Methanol	67-56-1	4.4E+09 E	CF 2	1.2E+06 E	CR 2	9.0E+02	CR 2
Methyl ethyl ketone	78-93-3	8.2E+07 E	NA 3	3.6E+03	NA 3	3.7E+01	NA 3
Methyl isobutyl ketone	108-10-1	8.7E+06 E	NA 3	7.9E+02	NA 3	1.4E+00	NA 3
Methyl methacrylate	80-62-6	2.1E+07 E	NA 3	8.1E+02	NA 3	1.1E+01	NA 3
n-Butyl alcohol	71-36-3	2.0E+08 E	CF 2	1.8E+04	CR 2	1.8E+02	CR 2
Nickel	7440-02-0	6.0E+06 E	NA 3	4.0E+06 E	CR 2	9.2E+03	CR 2

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Landfill: Combined Solids

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1	1.1E+07 E	NA 3	B			
Pentachlorophenol	87-86-5	1.9E+06 E	AF 1	4.6E+03	AR 1	1.4E+00	AR 1
Phenol	108-95-2	8.6E+10 E	CF 2	3.7E+06 E	CR 2	1.1E+03	CR 2
Selenium	7782-49-2	6.2E+06 E	CF 2	6.0E+02	CR 2	2.0E+01	CR 2
Silver	7440-22-4	1.2E+05	CF 2	2.5E+06 E	CR 2	2.1E+03	CR 2
Styrene	100-42-5	3.4E+08 E	NA 3	2.3E+31 E	AR 2	2.3E+01	AR 2
Tetrachloroethylene	127-18-4	1.0E+06 E	CF 1	2.1E+02	NA 3	1.2E+00	NA 3
Tin	7440-31-5	5.3E+08 E	CF 2	1.2E+13 E	CR 2	2.9E+09 E	CR 2
Toluene	108-88-3	1.4E+07 E	NA 3	7.3E+04	NA 3	1.6E+00	NA 3
Vinyl acetate	108-05-4	8.0E+06 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	1.0E+08 E	NA 3	L			
Zinc	7440-66-6	3.7E+06 E	CF 2	2.4E+08 E	CR 2	1.2E+05	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	8.4E+05	AF 1	2.1E+01	AR 1	2.8E-02	AR 1
Acrylonitrile	107-13-1	9.1E+03	CF 1	1.4E+00	NA 3	4.5E-02	NA 3
Antimony	7440-36-0	2.3E+05	CF 2	2.1E+01	CR 2	9.2E-01	CR 2
Barium	7440-39-3	1.9E+07 E	CF 2	1.1E+05	CR 2	4.6E+02	CR 2
Benzene	71-43-2	3.1E+04	CF 1	5.9E+02	AR 1	1.9E+00	AR 1
Butylbenzylphthalate	85-68-7	4.7E+10 E	CF 2	L			
Cadmium	7440-43-9	6.7E+04	CF 2	1.3E+03	CR 2	6.4E+00	CR 2
Chloroform	67-66-3	1.3E+06 E	NA 3	1.9E+03	NA 3	2.4E-01	NA 3
Chromium (III)	16065-83-1	7.0E+09 E	CF 2	7.9E+16 E	CR 2	1.3E+13 E	CR 2
Chromium (VI)	18540-29-9	8.0E+06 E	NA 3	2.6E+02	CR 2	9.4E+00	CR 2
Cobalt	7440-48-4	6.4E+05	NA 3	1.4E+07 E	CR 2	1.5E+04	CR 2
Copper	7440-50-8	1.1E+06 E	NA 3	7.1E+06 E	NA 5	1.5E+04	NA 5
Cresol, m-	108-39-4	4.7E+09 E	CF 2	1.9E+06 E	CR 2	6.3E+01	CR 2
Cresol, o-	95-48-7	1.4E+10 E	CF 2	3.1E+07 E	CR 2	6.3E+01	CR 2
Cresol, p-	106-44-5	7.1E+09 E	CF 2	3.1E+06 E	CR 2	6.3E+00	CR 2
Di(2-ethylhexylphthalate)	117-81-7	3.8E+08 E	AF 1	L			
Dibutylphthalate	84-74-2	1.1E+11 E	CF 2	L			
Dichloromethane	75-09-2	3.9E+05	AF 1	5.2E+03	NA 3	1.9E+01	NA 3
Dimethylphenol, 2,4-	105-67-9	2.6E+10 E	CF 2	9.5E+11 E	CR 2	1.6E+01	CR 2
Divalent mercury	7439-97-6(d)	2.5E+04	F 2	2.6E+05	CR 2	5.9E+01	CR 2
Ethylbenzene	100-41-4	1.2E+08 E	NA 3	L			
Ethylene glycol	107-21-1	3.3E+11 E	CF 2	1.3E+05	CR 2	2.5E+03	CR 2
Formaldehyde	50-00-0	1.5E+08 E	CF 2	3.6E+03	NA 3	3.7E+01	NA 3
Lead	7439-92-1	2.1E+08 E	NA 4	6.4E+05	NA 5	1.2E+02	NA 5
Mercury	7439-97-6(e)	7.0E+03	NA 3	9.6E+05	NA 3	5.5E+02 S	NA 3
Methanol	67-56-1	3.1E+09 E	CF 2	8.6E+05	CR 2	6.3E+02	CR 2
Methyl ethyl ketone	78-93-3	5.8E+07 E	NA 3	2.5E+03	NA 3	2.6E+01	NA 3
Methyl isobutyl ketone	108-10-1	6.1E+06 E	NA 3	5.5E+02	NA 3	1.0E+00	NA 3
Methyl methacrylate	80-62-6	1.5E+07 E	NA 3	5.7E+02	NA 3	7.8E+00	NA 3
n-Butyl alcohol	71-36-3	1.4E+08 E	CF 2	1.3E+04	CR 2	1.3E+02	CR 2
Nickel	7440-02-0	4.2E+06 E	NA 3	2.2E+06 E	CR 2	5.0E+03	CR 2

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Landfill: Dust

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1	7.9E+06 E	NA 3	B			
Pentachlorophenol	87-86-5	1.3E+06 E	AF 1	3.2E+03	AR 1	9.9E-01	AR 1
Phenol	108-95-2	6.0E+10 E	CF 2	2.6E+06 E	CR 2	7.5E+02	CR 2
Selenium	7782-49-2	4.3E+06 E	CF 2	4.2E+02	CR 2	1.4E+01	CR 2
Silver	7440-22-4	8.2E+04	CF 2	1.4E+06 E	CR 2	1.1E+03	CR 2
Styrene	100-42-5	2.4E+08 E	NA 3	1.6E+32 E	CR 2	1.6E+02	CR 2
Tetrachloroethylene	127-18-4	7.3E+05	CF 1	1.5E+02	NA 3	8.1E-01	NA 3
Tin	7440-31-5	3.7E+08 E	CF 2	6.4E+12 E	CR 2	1.6E+09 E	CR 2
Toluene	108-88-3	1.0E+07 E	NA 3	5.1E+04	NA 3	1.1E+00	NA 3
Vinyl acetate	108-05-4	5.6E+06 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	7.2E+07 E	NA 3	L			
Zinc	7440-66-6	2.6E+06 E	CF 2	1.3E+08 E	CR 2	6.6E+04	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
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L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	2.1E+05	AF 1	1.8E+00	AR 1	3.8E+00	CR 2
Acrylonitrile	107-13-1	1.3E+04	CF 1	1.2E+00	NA 3	1.9E+01	CR 2
Antimony	7440-36-0			2.9E+01	CR 2	2.8E+01	CR 2
Barium	7440-39-3			1.0E+05	CR 2	8.4E+04	CR 2
Benzene	71-43-2	3.5E+04	CF 1	8.0E+01	AR 1		
Butylbenzylphthalate	85-68-7	1.7E+11 E	F 2	7.6E+05	CR 2	2.9E+04	CR 2
Cadmium	7440-43-9			1.2E+03	CR 2	1.0E+03	CR 2
Chloroform	67-66-3	3.9E+05	NA 3	1.3E+01	NA 3	1.9E+02	CR 2
Chromium (III)	16065-83-1			2.0E+11 E	CR 2	2.6E+10 E	CR 2
Chromium (VI)	18540-29-9			4.3E+02	CR 2	4.1E+02	CR 2
Cobalt	7440-48-4			5.7E+05	CR 2	2.8E+05	CR 2
Copper	7440-50-8			1.9E+05	NA 5	1.2E+05	NA 5
Cresol, m-	108-39-4	2.7E+07 E	CF 2	3.1E+03	CR 2	1.1E+03	CR 2
Cresol, o-	95-48-7	2.2E+08 E	CF 2	3.8E+03	CR 2	1.1E+03	CR 2
Cresol, p-	106-44-5	1.8E+09 E	CF 2	4.2E+02	CR 2	1.1E+02	CR 2
Di(2-ethylhexylphthalate)	117-81-7	1.7E+09 E	AF 1	2.8E+07 E	AR 1	4.0E+03	CR 2
Dibutylphthalate	84-74-2	1.1E+09 E	CF 2	7.4E+05	CR 2	2.0E+04	CR 2
Dichloromethane	75-09-2	4.0E+05	CF 1	4.9E+02	NA 3	1.1E+03	CR 2
Dimethylphenol, 2,4-	105-67-9	2.4E+08 E	CF 2	1.4E+03	CR 2	3.7E+02	CR 2
Divalent mercury	7439-97-6(d)	8.5E+04	F 2	1.0E+03	CR 2	1.0E+02	CR 2
Ethylbenzene	100-41-4	1.3E+07 E	NA 3	3.2E+02	NA 3	1.9E+03	CR 2
Ethylene glycol	107-21-1	2.5E+07 E	NA 3	1.4E+05	CR 2	4.3E+04	CR 2
Formaldehyde	50-00-0	6.0E+07 E	CF 2	2.2E+03	NA 3	4.3E+03	CR 2
Lead	7439-92-1			2.3E+04	NA 5	3.2E+03	NA 5
Mercury	7439-97-6(e)	1.0E+03	NA 3	8.0E+01	NA 3		
Methanol	67-56-1	3.4E+09 E	CF 2	3.6E+04	CR 2	1.1E+04	CR 2
Methyl ethyl ketone	78-93-3	6.5E+07 E	NA 3	1.5E+03	NA 3	1.3E+04	CR 2
Methyl isobutyl ketone	108-10-1	3.2E+06 E	NA 3	5.8E+01	NA 3	1.7E+03	CR 2
Methyl methacrylate	80-62-6	1.1E+07 E	NA 3	2.0E+02	NA 3	2.6E+04	CR 2
n-Butyl alcohol	71-36-3	5.5E+07 E	CF 2	7.2E+03	CR 2	2.2E+03	CR 2
Nickel	7440-02-0			5.6E+04	CR 2	4.3E+04	CR 2

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Surface Impoundment: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Nickel oxide	1313-99-1			B			
Pentachlorophenol	87-86-5	1.1E+06 E	AF 1	1.1E+02	AR 1	5.8E+02	CR 2
Phenol	108-95-2	1.4E+09 E	CF 2	4.2E+04	CR 2	1.3E+04	CR 2
Selenium	7782-49-2			7.4E+02	CR 2	7.2E+02	CR 2
Silver	7440-22-4			8.5E+04	CR 2	3.6E+04	CR 2
Styrene	100-42-5	1.4E+07 E	NA 3	2.8E+02	NA 3	3.7E+03	CR 2
Tetrachloroethylene	127-18-4	3.7E+05	CF 1	2.8E+01	NA 3	1.9E+02	CR 2
Tin	7440-31-5			4.8E+08 E	CR 2	8.6E+07 E	CR 2
Toluene	108-88-3	3.4E+06 E	NA 3	8.3E+01	NA 3	3.7E+03	CR 2
Vinyl acetate	108-05-4	2.1E+06 E	NA 3	G			
Xylene (mixed isomers)	1330-20-7	5.1E+06 E	NA 3	1.1E+02	NA 3	3.9E+04	CR 2
Zinc	7440-66-6			8.9E+06 E	CR 2	2.7E+06 E	CR 2

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis
Acrylamide	79-06-1	4.1E+08 E	AF 1				
Acrylonitrile	107-13-1	7.5E+05	CF 1				
Benzene	71-43-2	3.4E+05	CF 1				
Butylbenzylphthalate	85-68-7	1.9E+14 E	CF 2				
Chloroform	67-66-3	1.6E+06 E	NA 3				
Cresol, m-	108-39-4	5.6E+16 E	CF 2				
Cresol, o-	95-48-7	6.2E+13 E	CF 2				
Cresol, p-	106-44-5	8.9E+14 E	CF 2				
Di(2-ethylhexylphthalate)	117-81-7	5.0E+11 E	AF 1				
Dibutylphthalate	84-74-2						
Dichloromethane	75-09-2	3.1E+06 E	CF 1				
Dimethylphenol, 2,4-	105-67-9	2.3E+15 E	CF 2				
Divalent mercury	7439-97-6(d)	4.0E+07 E	F 2				
Ethylbenzene	100-41-4	1.7E+09 E	NA 3				
Ethylene glycol	107-21-1	5.1E+32 E	NA 3				
Formaldehyde	50-00-0	9.8E+10 E	CF 2				
Mercury	7439-97-6(e)	4.6E+03	NA 3				
Methanol	67-56-1	1.7E+12 E	NA 3				
Methyl ethyl ketone	78-93-3	1.7E+10 E	NA 3				
Methyl isobutyl ketone	108-10-1	9.5E+08 E	NA 3				
Methyl methacrylate	80-62-6	8.2E+08 E	NA 3				
n-Butyl alcohol	71-36-3	2.5E+11 E	CF 2				
Pentachlorophenol	87-86-5	6.1E+08 E	AF 1				
Phenol	108-95-2	4.4E+14 E	CF 2				
Styrene	100-42-5	2.4E+09 E	NA 3				
Tetrachloroethylene	127-18-4	2.6E+06 E	CF 1				
Toluene	108-88-3	6.5E+07 E	NA 3				
Vinyl acetate	108-05-4	4.3E+07 E	NA 3				
Xylene (mixed isomers)	1330-20-7	6.2E+08 E	NA 3				

Table A-5. Summary of High-end Deterministic Target Waste Concentrations in Tank: Aqueous Waste

Constituent	CAS	Aboveground		Groundwater			
		Cw (mg/kg)		Cw (mg/kg)		CL (mg/L)	
		Waste Stream	Basis	Waste Stream	Basis	Waste Stream	Basis

AF = Adult farmer
AR = Adult resident.
CF = Child farmer
CR = Child resident
F = Fisher
NA = Not applicable to a particular receptor group.
E = The concentration exceeded 1 million ppm.
S = The concentration exceeded solubility checks.
L = Screened out of pathway since there was no constituent concentration in the leachate.
B = Screened out of pathway due to no benchmark.
M = Screened out of pathway since chemical is a non-volatile metal.
G = Screened out of pathway due to zero well concentration.

1 = Risk
2 = HQ ingestion
3 = HQ inhalation
4 = Soil Screening Level
5 = Drinking Water Action Level

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	2.6E+10 E	4.1E+09 E	5.0E+05 S	4.8E+05 S	1.4E+10 E	1.3E+01	6.0E+00	3.0E-02	1.4E-02
		HQ_inhal	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.1E+04		5.0E+01	
		Risk	2.3E+05 S	2.6E+05 S	2.6E+04	2.7E+04	2.3E+05 S	7.3E-01	1.1E+00	1.7E-03	2.5E-03
Acrylonitrile	107-13-1	HQ_ingest	2.2E+10 E	3.6E+09 E	6.1E+03	5.7E+03	2.3E+09 E	8.9E+00	4.3E+00	2.0E-01	9.3E-02
		HQ_inhal	1.2E+03	1.2E+03	1.2E+03	1.2E+03	1.2E+03	1.0E-01		2.2E-03	
		Risk	6.7E+02	7.2E+02	2.7E+02	2.3E+02	6.7E+02	6.8E-01	1.3E+00	1.5E-02	2.7E-02
Antimony	7440-36-0	HQ_ingest	1.9E+06 E	3.6E+05 S	6.8E+03	6.4E+03	1.9E+06 E	8.1E+00	3.8E+00	2.1E-01	1.0E-01
		HQ_inhal	5.4E+04 S	5.4E+04 S	5.4E+04 S	5.4E+04 S	5.4E+04 S				
		Risk									
Barium	7440-39-3	HQ_ingest	1.7E+08 E	3.0E+07 E	1.8E+06 E	1.5E+06 E	1.7E+08 E	5.3E+04	2.6E+04	1.6E+02	7.3E+01
		HQ_inhal	3.3E+05 S	3.3E+05 S	3.3E+05 S	3.3E+05 S	3.3E+05 S				
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	3.6E+03	3.8E+03	1.5E+03	1.3E+03	3.6E+03	5.0E+01	1.5E+02	1.1E-01	3.2E-01
Butylbenzylphthalate	85-68-7	HQ_ingest	7.6E+11 E	1.2E+11 E	4.6E+08 E	3.8E+08 E	8.2E+10 E				
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest	2.3E+06 E	4.1E+05 S	5.5E+03	4.9E+03	1.7E+06 E	2.8E+02	1.2E+02	1.0E+00	4.5E-01
		HQ_inhal	1.3E+04	1.3E+04	1.3E+04	1.3E+04	1.3E+04				
		Risk	2.8E+04	3.0E+04	2.8E+04	1.9E+04	2.8E+04				
Chloroform	67-66-3	HQ_ingest	1.6E+11 E	2.5E+10 E	6.9E+04 S	6.4E+04 S	1.8E+10 E	5.6E+04 S	2.7E+04	1.5E+00	6.8E-01
		HQ_inhal	6.3E+04 S	6.3E+04 S	6.3E+04 S	6.3E+04 S	6.3E+04 S	8.4E+02		2.2E-02	
		Risk									
Chromium (III)	16065-83-1	HQ_ingest	6.3E+09 E	9.8E+08 E	5.0E+08 E	2.9E+08 E	6.0E+09 E	4.4E+18 E	2.3E+18 E	1.6E+15 E	8.1E+14 E
		HQ_inhal									
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest	5.0E+07 E	9.3E+06 E	1.8E+06 E	1.2E+06 E	4.1E+07 E	1.2E+02	5.3E+01	2.4E+00	1.2E+00
		HQ_inhal	2.4E+05	2.4E+05	2.4E+05	2.4E+05	2.4E+05				
		Risk	9.2E+03	1.7E+04	1.5E+04	1.1E+04	1.6E+04				
Cobalt	7440-48-4	HQ_ingest	1.5E+08 E		3.7E+06 E	2.5E+06 E	1.5E+08 E	2.4E+06 E	1.0E+06 E	2.7E+03	1.2E+03
		HQ_inhal	9.8E+03	9.8E+03	9.8E+03	9.8E+03	9.8E+03				
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	1.2E+11 E	1.7E+10 E	4.8E+07 E	5.1E+07 E	5.9E+10 E	6.3E+05 S	3.1E+05 S	2.9E+01	5.6E+00
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	1.7E+11 E	2.8E+10 E	6.7E+07 E	6.5E+07 E	7.6E+10 E	6.4E+06 E	3.0E+06 E	2.9E+01	5.6E+00
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	1.7E+11 E	2.5E+10 E	1.2E+07 E	1.2E+07 E	5.6E+10 E	6.4E+05 S	3.0E+05 S	2.9E+00	5.6E-01
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	3.1E+10 E	5.0E+09 E	3.4E+07 E	3.2E+07 E	3.1E+10 E				
		HQ_inhal	2.5E+07 E	2.5E+07 E	2.5E+07 E	2.5E+07 E	2.5E+07 E				
		Risk	5.7E+09 E	3.8E+09 E	5.2E+06 E	5.8E+06 E	5.7E+09 E				
Dibutylphthalate	84-74-2	HQ_ingest	2.5E+11 E	3.2E+10 E	4.5E+08 E	3.8E+08 E	2.9E+10 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	1.1E+12 E	1.8E+11 E	2.0E+05 S	1.8E+05 S	9.1E+10 E	6.0E+03	2.8E+03	1.2E+01	5.6E+00
		HQ_inhal	9.4E+05 S	9.4E+05 S	9.4E+05 S	9.4E+05 S	9.4E+05 S	4.6E+02		9.1E-01	
		Risk	5.2E+04 S	5.6E+04 S	1.3E+04	1.3E+04	5.2E+04 S	4.8E+02	1.1E+03	9.0E-01	2.0E+00

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	9.7E+10 E	1.4E+10 E	1.2E+08 E	1.1E+08 E	4.8E+10 E	1.1E+10 E	5.4E+09 E	3.6E+01	1.2E+00
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	2.0E+06 E	3.7E+05	7.0E+03	5.0E+03	1.1E+03	1.5E+04	7.6E+03	1.6E+01	7.6E+00
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	5.7E+11 E	9.4E+10 E	3.6E+08 E	3.5E+08 E	1.6E+11 E				
		HQ_inhal	3.1E+06 E	3.1E+06 E	3.1E+06 E	3.1E+06 E	3.1E+06 E				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	1.3E+15 E	1.9E+14 E	2.9E+09 E	2.9E+09 E	5.2E+14 E	2.0E+04	9.1E+03	4.7E+02	2.2E+02
		HQ_inhal	3.0E+09 E	3.0E+09 E	3.0E+09 E	3.0E+09 E	3.0E+09 E	4.6E+04		1.1E+03	
		Risk									
Formaldehyde	50-00-0	HQ_ingest	6.5E+11 E	1.2E+11 E	1.0E+07 E	9.8E+06 E	3.0E+11 E	4.4E+03	2.1E+03	4.7E+01	2.2E+01
		HQ_inhal									
		Risk	5.9E+04	6.6E+04	5.9E+04	4.1E+04	5.9E+04	1.3E+04		1.4E+02	
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	3.8E+02 S	3.8E+02 S	3.8E+02 S	3.8E+02 S	3.8E+02 S	2.2E+05 S		8.5E+01 S	
		Risk									
Methanol	67-56-1	HQ_ingest	8.5E+13 E	1.4E+13 E	4.0E+07 E	3.6E+07 E	1.5E+13 E	1.1E+05	4.9E+04	1.2E+02	5.6E+01
		HQ_inhal	9.6E+07 E	9.6E+07 E	9.6E+07 E	9.6E+07 E	9.6E+07 E	2.8E+05 S		3.2E+02	
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	1.3E+13 E	2.1E+12 E	1.0E+07 E	9.8E+06 E	2.6E+12 E	2.2E+04	1.0E+04	1.4E+02	6.7E+01
		HQ_inhal	1.6E+06 E	1.6E+06 E	1.6E+06 E	1.6E+06 E	1.6E+06 E	3.4E+02		2.2E+00	
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	7.4E+11 E	1.2E+11 E	2.0E+06 E	1.9E+06 E	1.9E+11 E	3.2E+04 S	1.5E+04	1.9E+01	9.0E+00
		HQ_inhal	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.6E+02		9.2E-02	
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	1.5E+13 E	2.3E+12 E	1.2E+07 E	1.2E+07 E	2.0E+12 E	4.8E+04 S	2.3E+04 S	2.8E+02	1.3E+02
		HQ_inhal	5.7E+05 S	5.7E+05 S	5.7E+05 S	5.7E+05 S	5.7E+05 S	6.9E+01		3.9E-01	
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	3.5E+11 E	5.7E+10 E	5.2E+06 E	4.9E+06 E	1.3E+11 E	4.5E+03	2.1E+03	2.3E+01	1.1E+01
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest	4.5E+07 E	7.9E+06 E	7.3E+05 S	5.7E+05 S	4.5E+07 E	1.4E+05 S	6.4E+04	2.4E+02	1.2E+02
		HQ_inhal	6.4E+04	6.4E+04	6.4E+04	6.4E+04	6.4E+04				
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal	1.2E+05	1.2E+05	1.2E+05	1.2E+05	1.2E+05				
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	6.3E+09 E	9.3E+08 E	1.7E+07 E	1.3E+07 E	6.2E+09 E	9.0E+03	4.4E+03	6.5E+00	3.0E+00
		HQ_inhal	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	5.7E+05 S		3.9E+02	
		Risk	2.3E+07 E	2.1E+07 E	2.1E+05 S	2.2E+05 S	2.3E+07 E	1.4E+02	2.0E+02	1.0E-01	1.4E-01
Phenol	108-95-2	HQ_ingest	2.8E+12 E	4.6E+11 E	6.5E+08 E	6.2E+08 E	1.3E+12 E	1.2E+06 E	6.2E+05 S	1.6E+02	6.7E+01
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest	3.7E+07 E	6.0E+06 E	1.4E+05 S	1.0E+05 S	4.2E+06 E	9.7E+01	4.4E+01	2.6E+00	1.2E+00
		HQ_inhal	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E				
		Risk									
Silver	7440-22-4	HQ_ingest	1.2E+07 E	1.9E+06 E	1.2E+04	9.3E+03	1.2E+07 E	6.6E+05 S	2.8E+05 S	7.4E+02	3.6E+02
		HQ_inhal	2.0E+07 E	2.0E+07 E	2.0E+07 E	2.0E+07 E	2.0E+07 E				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	9.9E+11 E	1.6E+11 E	5.9E+08 E	5.6E+08 E	3.6E+11 E	1.0E+75 E	7.0E+30 E	1.0E+45 E	1.2E+01
		HQ_inhal	5.5E+06 E	5.5E+06 E	5.5E+06 E	5.5E+06 E	5.5E+06 E	1.0E+75 E		1.0E+45 E	
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	1.0E+11 E	1.6E+10 E	2.5E+07 E	2.4E+07 E	8.4E+09 E	6.2E+02	2.9E+02	1.3E+00	6.2E-01
		HQ_inhal	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S	2.9E+01		6.0E-02	
		Risk	6.4E+04 S	6.9E+04 S	5.9E+04 S	4.2E+04 S	6.4E+04 S	5.5E+01	8.7E+01	1.1E-01	1.9E-01
Tin	7440-31-5	HQ_ingest	1.8E+09 E	2.8E+08 E	2.3E+07 E	1.5E+07 E	1.8E+09 E	9.0E+15 E	4.0E+15 E	1.8E+12 E	7.6E+11 E
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	1.3E+12 E	2.1E+11 E	4.7E+08 E	4.6E+08 E	2.2E+11 E	1.8E+06 E	8.1E+05 S	7.5E+01	1.2E+01
		HQ_inhal	4.4E+05 S	4.4E+05 S	4.4E+05 S	4.4E+05 S	4.4E+05 S	5.1E+03		2.2E-01	
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	4.5E+13 E	7.3E+12 E	1.2E+07 E	1.1E+07 E	4.6E+12 E				
		HQ_inhal	2.1E+05 S	2.1E+05 S	2.1E+05 S	2.1E+05 S	2.1E+05 S				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	1.0E+13 E	1.6E+12 E	5.3E+09 E	5.2E+09 E	3.2E+12 E				
		HQ_inhal	1.5E+06 E	1.5E+06 E	1.5E+06 E	1.5E+06 E	1.5E+06 E				
		Risk									
Zinc	7440-66-6	HQ_ingest	6.6E+08 E	1.1E+08 E	3.2E+05	2.4E+05	6.6E+08 E	2.8E+07 E	1.4E+07 E	2.5E+04	1.3E+04
		HQ_inhal	8.2E+05 S	8.2E+05 S	8.2E+05 S	8.2E+05 S	8.2E+05 S				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	2.5E+10 E	4.0E+09 E	4.9E+05 S	4.7E+05 S	1.4E+10 E	1.3E+01	6.0E+00	3.0E-02	1.4E-02
		HQ_inhal	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.5E+06 E	2.1E+04		5.0E+01	
		Risk	2.3E+05 S	2.5E+05 S	2.6E+04	2.6E+04	2.3E+05 S	7.3E-01	1.1E+00	1.7E-03	2.5E-03
Acrylonitrile	107-13-1	HQ_ingest	2.2E+10 E	3.6E+09 E	6.1E+03	5.7E+03	2.3E+09 E	8.9E+00	4.3E+00	2.0E-01	9.3E-02
		HQ_inhal	1.2E+03	1.2E+03	1.2E+03	1.2E+03	1.2E+03	1.0E-01		2.2E-03	
		Risk	6.7E+02	7.2E+02	2.7E+02	2.3E+02	6.7E+02	6.8E-01	1.3E+00	1.5E-02	2.7E-02
Antimony	7440-36-0	HQ_ingest	1.9E+06 E	3.6E+05 S	6.8E+03	6.4E+03	1.9E+06 E	8.1E+00	3.8E+00	2.1E-01	1.0E-01
		HQ_inhal	5.4E+04 S	5.4E+04 S	5.4E+04 S	5.4E+04 S	5.4E+04 S				
		Risk									
Barium	7440-39-3	HQ_ingest	1.7E+08 E	3.0E+07 E	1.8E+06 E	1.5E+06 E	1.7E+08 E	5.3E+04	2.6E+04	1.6E+02	7.3E+01
		HQ_inhal	3.3E+05 S	3.3E+05 S	3.3E+05 S	3.3E+05 S	3.3E+05 S				
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	3.6E+03	3.8E+03	1.5E+03	1.3E+03	3.6E+03	5.0E+01	1.5E+02	1.1E-01	3.2E-01
Butylbenzylphthalate	85-68-7	HQ_ingest	7.6E+11 E	1.2E+11 E	4.6E+08 E	3.8E+08 E	8.2E+10 E				
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest	2.3E+06 E	4.1E+05 S	5.5E+03	4.9E+03	1.6E+06 E	2.8E+02	1.2E+02	1.0E+00	4.5E-01
		HQ_inhal	1.3E+04	1.3E+04	1.3E+04	1.3E+04	1.3E+04				
		Risk	2.8E+04	3.0E+04	2.8E+04	1.9E+04	2.8E+04				
Chloroform	67-66-3	HQ_ingest	1.6E+11 E	2.5E+10 E	6.9E+04 S	6.4E+04 S	1.8E+10 E	5.6E+04 S	2.7E+04	1.5E+00	6.8E-01
		HQ_inhal	6.3E+04 S	6.3E+04 S	6.3E+04 S	6.3E+04 S	6.3E+04 S	8.4E+02		2.2E-02	
		Risk									
Chromium (III)	16065-83-1	HQ_ingest	6.3E+09 E	9.7E+08 E	5.0E+08 E	2.9E+08 E	5.9E+09 E	4.4E+18 E	2.3E+18 E	1.6E+15 E	8.1E+14 E
		HQ_inhal									
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest	4.9E+07 E	9.0E+06 E	1.7E+06 E	1.2E+06 E	4.1E+07 E	2.1E+02	9.6E+01	3.6E+00	1.6E+00
		HQ_inhal	2.3E+05	2.3E+05	2.3E+05	2.3E+05	2.3E+05				
		Risk	1.6E+04	1.7E+04	1.5E+04	1.1E+04	1.6E+04				
Cobalt	7440-48-4	HQ_ingest	1.5E+08 E	2.5E+07 E	3.7E+06 E	2.5E+06 E	1.5E+08 E	2.9E+06 E	1.3E+06 E	3.6E+03	1.7E+03
		HQ_inhal	9.8E+03	9.8E+03	9.8E+03	9.8E+03	9.8E+03				
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal	1.6E+04	1.6E+04	1.6E+04	1.6E+04	1.6E+04				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	1.2E+11 E	1.7E+10 E	4.8E+07 E	5.0E+07 E	5.8E+10 E	6.3E+05 S	3.1E+05 S	2.9E+01	5.6E+00
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	1.7E+11 E	2.8E+10 E	6.7E+07 E	6.4E+07 E	7.5E+10 E	6.4E+06 E	3.0E+06 E	2.9E+01	5.6E+00
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	1.7E+11 E	2.5E+10 E	1.2E+07 E	1.2E+07 E	5.6E+10 E	6.4E+05 S	3.0E+05 S	2.9E+00	5.6E-01
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	3.1E+10 E	4.9E+09 E	3.4E+07 E	3.2E+07 E	3.1E+10 E				
		HQ_inhal	2.5E+07 E	2.5E+07 E	2.5E+07 E	2.5E+07 E	2.5E+07 E				
		Risk	5.7E+09 E	3.7E+09 E	5.2E+06 E	5.8E+06 E	5.7E+09 E				
Dibutylphthalate	84-74-2	HQ_ingest	2.5E+11 E	3.2E+10 E	4.5E+08 E	3.7E+08 E	2.9E+10 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	1.1E+12 E	1.8E+11 E	2.0E+05 S	1.8E+05 S	9.1E+10 E	6.0E+03	2.8E+03	1.2E+01	5.6E+00
		HQ_inhal	9.4E+05 S	9.4E+05 S	9.4E+05 S	9.4E+05 S	9.4E+05 S	4.6E+02		9.1E-01	
		Risk	5.2E+04 S	5.6E+04 S	1.3E+04	1.3E+04	5.2E+04 S	4.8E+02	1.1E+03	9.0E-01	2.0E+00

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	9.6E+10 E	1.4E+10 E	1.2E+08 E	1.1E+08 E	4.7E+10 E	1.1E+10 E	5.4E+09 E	3.6E+01	1.2E+00
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	1.9E+06 E	3.7E+05	7.0E+03	4.9E+03	1.0E+03	1.5E+04	7.6E+03	1.6E+01	7.6E+00
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	5.7E+11 E	9.4E+10 E	3.6E+08 E	3.4E+08 E	1.6E+11 E				
		HQ_inhal	3.1E+06 E	3.1E+06 E	3.1E+06 E	3.1E+06 E	3.1E+06 E				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	1.3E+15 E	1.8E+14 E	2.8E+09 E	2.9E+09 E	5.0E+14 E	2.0E+04	9.1E+03	4.7E+02	2.2E+02
		HQ_inhal	3.0E+09 E	3.0E+09 E	3.0E+09 E	3.0E+09 E	3.0E+09 E	4.6E+04		1.1E+03	
		Risk									
Formaldehyde	50-00-0	HQ_ingest	6.5E+11 E	1.2E+11 E	1.0E+07 E	9.8E+06 E	3.0E+11 E	4.4E+03	2.1E+03	4.7E+01	2.2E+01
		HQ_inhal									
		Risk	5.9E+04	6.6E+04	5.9E+04	4.1E+04	5.9E+04	1.3E+04		1.4E+02	
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	3.8E+02 S	3.8E+02 S	3.8E+02 S	3.8E+02 S	3.8E+02 S	2.2E+05 S		8.5E+01 S	
		Risk									
Methanol	67-56-1	HQ_ingest	8.5E+13 E	1.4E+13 E	4.0E+07 E	3.6E+07 E	1.5E+13 E	1.1E+05	4.9E+04	1.2E+02	5.6E+01
		HQ_inhal	9.6E+07 E	9.6E+07 E	9.6E+07 E	9.6E+07 E	9.6E+07 E	2.8E+05 S		3.2E+02	
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	1.3E+13 E	2.1E+12 E	1.0E+07 E	9.8E+06 E	2.6E+12 E	2.2E+04	1.0E+04	1.4E+02	6.7E+01
		HQ_inhal	1.6E+06 E	1.6E+06 E	1.6E+06 E	1.6E+06 E	1.6E+06 E	3.4E+02		2.2E+00	
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	7.4E+11 E	1.2E+11 E	2.0E+06 E	1.9E+06 E	1.9E+11 E	3.2E+04 S	1.5E+04	1.9E+01	9.0E+00
		HQ_inhal	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.9E+05 S	1.6E+02		9.2E-02	
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	1.5E+13 E	2.3E+12 E	1.2E+07 E	1.2E+07 E	2.0E+12 E	4.8E+04 S	2.3E+04 S	2.8E+02	1.3E+02
		HQ_inhal	5.7E+05 S	5.7E+05 S	5.7E+05 S	5.7E+05 S	5.7E+05 S	6.9E+01		3.9E-01	
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	3.5E+11 E	5.7E+10 E	5.2E+06 E	4.9E+06 E	1.3E+11 E	4.5E+03	2.1E+03	2.3E+01	1.1E+01
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest	4.5E+07 E	7.8E+06 E	7.3E+05 S	5.7E+05 S	4.5E+07 E	2.1E+05 S	9.4E+04	3.4E+02	1.7E+02
		HQ_inhal	6.4E+04	6.4E+04	6.4E+04	6.4E+04	6.4E+04				
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal	1.2E+05	1.2E+05	1.2E+05	1.2E+05	1.2E+05				
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	6.3E+09 E	9.3E+08 E	1.7E+07 E	1.3E+07 E	6.2E+09 E	9.0E+03	4.4E+03	6.5E+00	3.0E+00
		HQ_inhal	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	5.7E+05 S		3.9E+02	
		Risk	2.3E+07 E	2.1E+07 E	2.1E+05 S	2.1E+05 S	2.3E+07 E	1.4E+02	2.0E+02	1.0E-01	1.4E-01
Phenol	108-95-2	HQ_ingest	2.8E+12 E	4.6E+11 E	6.5E+08 E	6.2E+08 E	1.3E+12 E	1.2E+06 E	6.2E+05 S	1.6E+02	6.7E+01
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest	3.7E+07 E	6.0E+06 E	1.4E+05 S	1.0E+05 S	4.2E+06 E	9.7E+01	4.4E+01	2.6E+00	1.2E+00
		HQ_inhal	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E				
		Risk									
Silver	7440-22-4	HQ_ingest	1.2E+07 E	1.9E+06 E	1.2E+04	9.3E+03	1.2E+07 E	8.6E+05 S	3.7E+05 S	1.0E+03	4.8E+02
		HQ_inhal	2.0E+07 E	2.0E+07 E	2.0E+07 E	2.0E+07 E	2.0E+07 E				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	9.9E+11 E	1.6E+11 E	5.9E+08 E	5.6E+08 E	3.6E+11 E	1.0E+75 E	7.0E+30 E	1.0E+45 E	1.2E+01
		HQ_inhal	5.5E+06 E	5.5E+06 E	5.5E+06 E	5.5E+06 E	5.5E+06 E	1.0E+75 E		1.0E+45 E	
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	1.0E+11 E	1.6E+10 E	2.5E+07 E	2.4E+07 E	8.4E+09 E	6.2E+02	2.9E+02	1.3E+00	6.2E-01
		HQ_inhal	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S	2.9E+01		6.0E-02	
		Risk	6.4E+04 S	6.9E+04 S	5.9E+04 S	4.2E+04 S	6.4E+04 S	5.5E+01	8.7E+01	1.1E-01	1.9E-01
Tin	7440-31-5	HQ_ingest	1.8E+09 E	2.8E+08 E	2.3E+07 E	1.5E+07 E	1.8E+09 E	9.0E+15 E	4.0E+15 E	1.8E+12 E	7.6E+11 E
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	1.3E+12 E	2.1E+11 E	4.7E+08 E	4.6E+08 E	2.2E+11 E	1.8E+06 E	8.1E+05 S	7.5E+01	1.2E+01
		HQ_inhal	4.4E+05 S	4.4E+05 S	4.4E+05 S	4.4E+05 S	4.4E+05 S	5.1E+03		2.2E-01	
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	4.5E+13 E	7.3E+12 E	1.2E+07 E	1.1E+07 E	4.6E+12 E				
		HQ_inhal	2.1E+05 S	2.1E+05 S	2.1E+05 S	2.1E+05 S	2.1E+05 S				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	1.0E+13 E	1.6E+12 E	5.3E+09 E	5.1E+09 E	3.2E+12 E				
		HQ_inhal	1.5E+06 E	1.5E+06 E	1.5E+06 E	1.5E+06 E	1.5E+06 E				
		Risk									
Zinc	7440-66-6	HQ_ingest	6.5E+08 E	1.1E+08 E	3.2E+05	2.4E+05	6.5E+08 E	2.8E+07 E	1.4E+07 E	2.5E+04	1.3E+04
		HQ_inhal	8.2E+05 S	8.2E+05 S	8.2E+05 S	8.2E+05 S	8.2E+05 S				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	1.2E+09 E	1.9E+08 E	2.4E+04	2.2E+04	6.5E+08 E	2.8E-01	1.4E-01		
		HQ_inhal	1.0E+05	1.0E+05	1.0E+05	1.0E+05	1.0E+05	4.4E+02			
		Risk	9.7E+03	1.0E+04	1.0E+03	1.0E+03	9.7E+03	1.8E-02	2.6E-02		
Acrylonitrile	107-13-1	HQ_ingest	5.7E+08 E	1.0E+08 E	1.9E+02	1.9E+02	6.7E+07 E	9.8E-01	4.6E-01		
		HQ_inhal	3.0E+01	3.0E+01	3.0E+01	3.0E+01	3.0E+01	1.0E-02			
		Risk	1.7E+01	1.9E+01	7.9E+00	6.2E+00	1.7E+01	8.1E-02	1.4E-01		
Antimony	7440-36-0	HQ_ingest						1.2E+00	5.8E-01		
		HQ_inhal									
		Risk									
Barium	7440-39-3	HQ_ingest						1.5E+04	7.1E+03		
		HQ_inhal									
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	7.9E+01	9.2E+01	3.7E+01	3.0E+01	7.9E+01	6.4E-01	2.0E+00		
Butylbenzylphthalate	85-68-7	HQ_ingest	4.8E+09 E	8.8E+08 E	1.3E+09 E	5.0E+08 E	7.4E+08 E	9.1E+04 S	4.4E+04 S		
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest						7.2E+01	3.5E+01		
		HQ_inhal									
		Risk									
Chloroform	67-66-3	HQ_ingest	1.3E+09 E	2.3E+08 E	8.0E+02	7.5E+02	1.9E+08 E	9.5E+00	4.4E+00		
		HQ_inhal	5.8E+02	5.8E+02	5.8E+02	5.8E+02	5.8E+02	1.4E-01			
		Risk									
Chromium (III)	16065-83-1	HQ_ingest						1.6E+16 E	8.1E+15 E		
		HQ_inhal									
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest						2.5E+01	1.2E+01		
		HQ_inhal									
		Risk									
Cobalt	7440-48-4	HQ_ingest						3.9E+05	1.8E+05		
		HQ_inhal									
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal									
		Risk									
Cresol, m-	108-39-4	HQ_ingest	3.6E+07 E	7.2E+06 E	1.8E+04	1.8E+04	1.8E+07 E	5.6E+01	2.6E+01		
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	2.8E+08 E	5.7E+07 E	1.6E+05 S	1.6E+05 S	1.3E+08 E	7.3E+01	3.4E+01		
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	1.2E+09 E	2.2E+08 E	1.5E+05 S	1.4E+05 S	4.5E+08 E	8.5E+00	4.0E+00		
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	3.1E+11 E	5.7E+10 E	3.8E+06 E	3.8E+06 E	3.1E+11 E	5.2E+06 E	2.5E+06 E		
		HQ_inhal	4.6E+07 E	4.6E+07 E	4.6E+07 E	4.6E+07 E	4.6E+07 E	1.1E+07 E			
		Risk	6.0E+10 E	4.0E+10 E	7.2E+05 S	7.7E+05 S	6.0E+10 E	1.1E+06 E	1.0E+05 S		
Dibutylphthalate	84-74-2	HQ_ingest	2.5E+07 E	4.9E+06 E	6.4E+06 E	2.6E+06 E	5.8E+06 E	1.1E+05 S	4.9E+04 S		
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	2.4E+10 E	4.3E+09 E	5.5E+03	5.3E+03	2.6E+09 E	6.3E+01	3.0E+01		
		HQ_inhal	2.0E+04 S	2.0E+04 S	2.0E+04 S	2.0E+04 S	2.0E+04 S	4.6E+00			
		Risk	1.2E+03	1.4E+03	3.5E+02	3.1E+02	1.2E+03	5.4E+00	1.1E+01		

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	4.4E+07 E	8.7E+06 E	3.4E+05 S	3.1E+05 S	2.3E+07 E	4.4E+01	2.1E+01		
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	2.6E+05 S	5.0E+04	7.6E+02	5.4E+02	1.6E+02	2.4E+03	1.0E+03		
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	2.4E+09 E	4.5E+08 E	6.1E+06 E	5.8E+06 E	8.0E+08 E	6.5E+02 S	3.0E+02 S		
		HQ_inhal	1.6E+04 S	1.6E+04 S	1.6E+04 S	1.6E+04 S	1.6E+04 S	9.8E+00			
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	7.8E+10 E	1.6E+10 E	1.7E+05	1.7E+05	3.3E+10 E	2.1E+03	1.0E+03		
		HQ_inhal	4.1E+04	4.1E+04	4.1E+04	4.1E+04	4.1E+04	4.6E+03			
		Risk									
Formaldehyde	50-00-0	HQ_ingest	1.8E+10 E	3.1E+09 E	2.7E+05	2.5E+05	7.3E+09 E	2.3E+02	1.1E+02		
		HQ_inhal									
		Risk	1.8E+03	2.0E+03	1.6E+03	1.1E+03	1.8E+03	7.4E+02			
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	2.0E+00 S	2.0E+00 S	2.0E+00 S	2.0E+00 S	2.0E+00 S	4.5E+02 S			
		Risk									
Methanol	67-56-1	HQ_ingest	1.6E+12 E	3.0E+11 E	8.8E+05	8.4E+05	3.1E+11 E	5.8E+02	2.8E+02		
		HQ_inhal	1.9E+06 E	1.9E+06 E	1.9E+06 E	1.9E+06 E	1.9E+06 E	1.5E+03			
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	3.0E+11 E	5.6E+10 E	3.0E+05 S	2.9E+05 S	6.4E+10 E	7.1E+02	3.4E+02		
		HQ_inhal	3.9E+04	3.9E+04	3.9E+04	3.9E+04	3.9E+04	1.1E+01			
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	9.1E+09 E	1.7E+09 E	3.2E+04 S	3.1E+04 S	2.2E+09 E	9.8E+01	4.7E+01		
		HQ_inhal	2.5E+03	2.5E+03	2.5E+03	2.5E+03	2.5E+03	4.4E-01			
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	2.4E+11 E	4.3E+10 E	2.6E+05 S	2.5E+05 S	3.3E+10 E	1.5E+03	7.0E+02		
		HQ_inhal	9.8E+03	9.8E+03	9.8E+03	9.8E+03	9.8E+03	1.9E+00			
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	7.1E+09 E	1.4E+09 E	1.3E+05 S	1.2E+05 S	2.4E+09 E	1.2E+02	5.6E+01		
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest						2.8E+04	1.3E+04		
		HQ_inhal									
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal									
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	1.2E+10 E	2.3E+09 E	1.1E+06 E	7.8E+05 S	1.2E+10 E	3.7E+02	1.6E+02		
		HQ_inhal	9.2E+07 E	9.2E+07 E	9.2E+07 E	9.2E+07 E	9.2E+07 E	2.2E+04 S			
		Risk	1.4E+07 E	1.5E+07 E	1.8E+04 S	1.6E+04 S	1.4E+07 E	6.1E+00	7.0E+00		
Phenol	108-95-2	HQ_ingest	2.0E+10 E	3.7E+09 E	5.2E+06 E	4.6E+06 E	8.7E+09 E	8.4E+02	4.1E+02		
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest						2.1E+01	9.7E+00		
		HQ_inhal									
		Risk									
Silver	7440-22-4	HQ_ingest						6.6E+04	2.9E+04		
		HQ_inhal									
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	2.3E+09 E	4.2E+08 E	3.7E+06 E	3.5E+06 E	9.2E+08 E	5.4E+02 S	2.5E+02		
		HQ_inhal	1.6E+04 S	1.6E+04 S	1.6E+04 S	1.6E+04 S	1.6E+04 S	4.3E+00			
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	1.4E+09 E	2.4E+08 E	6.5E+05 S	6.1E+05 S	1.7E+08 E	8.6E+00	4.0E+00		
		HQ_inhal	2.1E+03 S	2.1E+03 S	2.1E+03 S	2.1E+03 S	2.1E+03 S	3.8E-01			
		Risk	9.9E+02 S	1.1E+03 S	8.9E+02 S	5.8E+02 S	9.9E+02 S	8.4E-01	1.3E+00		
Tin	7440-31-5	HQ_ingest						2.1E+13 E	9.4E+12 E		
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	9.8E+09 E	1.8E+09 E	6.6E+06 E	6.1E+06 E	2.2E+09 E	3.8E+02	1.8E+02		
		HQ_inhal	3.8E+03 S	3.8E+03 S	3.8E+03 S	3.8E+03 S	3.8E+03 S	1.1E+00			
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	4.1E+11 E	7.5E+10 E	1.3E+05 S	1.3E+05 S	4.8E+10 E				
		HQ_inhal	2.0E+03	2.0E+03	2.0E+03	2.0E+03	2.0E+03				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	2.9E+10 E	5.4E+09 E	5.4E+07 E	5.1E+07 E	1.1E+10 E	1.1E+04 S	5.0E+03 S		
		HQ_inhal	5.6E+03 S	5.6E+03 S	5.6E+03 S	5.6E+03 S	5.6E+03 S	3.1E+00			
		Risk									
Zinc	7440-66-6	HQ_ingest						6.7E+06 E	2.9E+06 E		
		HQ_inhal									
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	3.4E+11 E	5.8E+10 E	8.4E+06 E	7.8E+06 E	2.0E+11 E				
		HQ_inhal	2.9E+07 E	2.9E+07 E	2.9E+07 E	2.9E+07 E	2.9E+07 E				
		Risk	2.5E+06 E	2.8E+06 E	3.4E+05	3.3E+05	2.5E+06 E				
Acrylonitrile	107-13-1	HQ_ingest	2.4E+10 E	4.1E+09 E	7.6E+03	7.4E+03	2.9E+09 E				
		HQ_inhal	1.0E+03	1.0E+03	1.0E+03	1.0E+03	1.0E+03				
		Risk	6.2E+02	6.8E+02	3.0E+02	2.3E+02	6.2E+02				
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	7.9E+02	8.6E+02	3.6E+02	2.9E+02	7.9E+02				
Butylbenzylphthalate	85-68-7	HQ_ingest	9.5E+11 E	1.7E+11 E	3.0E+11 E	1.0E+11 E	1.6E+11 E				
		HQ_inhal									
		Risk									
Chloroform	67-66-3	HQ_ingest	9.4E+09 E	1.6E+09 E	5.3E+03	4.7E+03	1.2E+09 E				
		HQ_inhal	3.5E+03	3.5E+03	3.5E+03	3.5E+03	3.5E+03				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	2.0E+10 E	3.8E+09 E	1.1E+07 E	1.0E+07 E	1.0E+10 E				
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	1.4E+11 E	2.7E+10 E	7.8E+07 E	7.5E+07 E	6.7E+10 E				
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	7.6E+11 E	1.4E+11 E	9.5E+07 E	8.7E+07 E	2.7E+11 E				
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	2.7E+13 E	4.9E+12 E	4.4E+08 E	4.1E+08 E	2.7E+13 E				
		HQ_inhal	4.2E+09 E	4.2E+09 E	4.2E+09 E	4.2E+09 E	4.2E+09 E				
		Risk	5.4E+12 E	3.6E+12 E	7.8E+07 E	8.3E+07 E	5.4E+12 E				

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dibutylphthalate	84-74-2	HQ_ingest	9.8E+09 E	2.0E+09 E	3.0E+09 E	1.1E+09 E	2.4E+09 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	2.6E+11 E	4.2E+10 E	5.6E+04 S	5.0E+04 S	2.5E+10 E				
		HQ_inhal	1.8E+05 S	1.8E+05 S	1.8E+05 S	1.8E+05 S	1.8E+05 S				
		Risk	1.1E+04	1.1E+04	3.3E+03	2.9E+03	1.1E+04				
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	2.4E+10 E	4.8E+09 E	2.1E+08 E	1.9E+08 E	1.3E+10 E				
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	1.2E+08 E	2.3E+07 E	3.9E+05 S	2.9E+05 S	8.0E+04 S				
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	6.6E+10 E	1.1E+10 E	1.6E+08 E	1.5E+08 E	2.1E+10 E				
		HQ_inhal	3.2E+05 S	3.2E+05 S	3.2E+05 S	3.2E+05 S	3.2E+05 S				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	3.8E+13 E	7.4E+12 E	9.7E+07 E	9.6E+07 E	1.6E+13 E				
		HQ_inhal	1.9E+07 E	1.9E+07 E	1.9E+07 E	1.9E+07 E	1.9E+07 E				
		Risk									
Formaldehyde	50-00-0	HQ_ingest	3.9E+12 E	6.3E+11 E	6.7E+07 E	6.2E+07 E	1.8E+12 E				
		HQ_inhal									
		Risk	3.1E+05	3.5E+05	2.8E+05	1.9E+05	3.1E+05				
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	1.4E+01 S	1.4E+01 S	1.4E+01 S	1.4E+01 S	1.4E+01 S				
		Risk									
Methanol	67-56-1	HQ_ingest	2.2E+14 E	3.7E+13 E	1.1E+08 E	1.0E+08 E	3.9E+13 E				
		HQ_inhal	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl ethyl ketone	78-93-3	HQ_ingest	2.5E+13 E	4.3E+12 E	2.4E+07 E	2.2E+07 E	5.5E+12 E				
		HQ_inhal	2.8E+06 E	2.8E+06 E	2.8E+06 E	2.8E+06 E	2.8E+06 E				
		Risk									
Methyl isobutyl ketone	108-10-1	HQ_ingest	6.5E+11 E	1.1E+11 E	2.1E+06 E	1.9E+06 E	1.7E+11 E				
		HQ_inhal	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S	1.4E+05 S				
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	8.2E+12 E	1.4E+12 E	7.7E+06 E	7.1E+06 E	1.2E+12 E				
		HQ_inhal	2.7E+05 S	2.7E+05 S	2.7E+05 S	2.7E+05 S	2.7E+05 S				
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	1.1E+12 E	1.9E+11 E	1.7E+07 E	1.7E+07 E	4.0E+11 E				
		HQ_inhal									
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	2.0E+12 E	3.6E+11 E	1.8E+08 E	1.3E+08 E	2.0E+12 E				
		HQ_inhal	1.3E+10 E	1.3E+10 E	1.3E+10 E	1.3E+10 E	1.3E+10 E				
		Risk	2.0E+09 E	2.1E+09 E	2.5E+06 E	2.5E+06 E	2.0E+09 E				
Phenol	108-95-2	HQ_ingest	1.1E+13 E	2.1E+12 E	3.0E+09 E	2.9E+09 E	5.2E+12 E				
		HQ_inhal									
		Risk									
Styrene	100-42-5	HQ_ingest	6.9E+10 E	1.2E+10 E	1.0E+08 E	9.8E+07 E	2.7E+10 E				
		HQ_inhal	3.4E+05 S	3.4E+05 S	3.4E+05 S	3.4E+05 S	3.4E+05 S				
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	1.1E+10 E	1.9E+09 E	5.7E+06 E	5.2E+06 E	1.2E+09 E				
		HQ_inhal	1.3E+04 S	1.3E+04 S	1.3E+04 S	1.3E+04 S	1.3E+04 S				
		Risk	6.3E+03 S	7.0E+03 S	5.6E+03 S	3.8E+03 S	6.3E+03 S				
Toluene	108-88-3	HQ_ingest	1.5E+11 E	2.5E+10 E	1.0E+08 E	9.4E+07 E	2.9E+10 E				
		HQ_inhal	4.4E+04 S	4.4E+04 S	4.4E+04 S	4.4E+04 S	4.4E+04 S				
		Risk									

Table A-6. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway of the WMU in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Vinyl acetate	108-05-4	HQ_ingest	7.8E+12 E	1.3E+12 E	2.4E+06 E	2.2E+06 E	9.5E+11 E				
		HQ_inhal	3.2E+04 S	3.2E+04 S	3.2E+04 S	3.2E+04 S	3.2E+04 S				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	7.7E+11 E	1.3E+11 E	1.3E+09 E	1.2E+09 E	2.7E+11 E				
		HQ_inhal	1.1E+05 S	1.1E+05 S	1.1E+05 S	1.1E+05 S	1.1E+05 S				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	1.8E+13 E	3.2E+12 E	3.0E+08 E	2.9E+08 E	9.6E+12 E	7.3E+03	3.5E+03	1.6E+01	7.4E+00
		HQ_inhal	2.7E+09 E	2.7E+09 E	2.7E+09 E	2.7E+09 E	2.7E+09 E	1.2E+07 E		2.6E+04	
		Risk	2.6E+08 E	2.7E+08 E	1.9E+07 E	1.9E+07 E	2.6E+08 E	4.7E+02	6.3E+02	9.7E-01	1.3E+00
Acrylonitrile	107-13-1	HQ_ingest	1.5E+13 E	2.8E+12 E	4.8E+06 E	4.3E+06 E	1.7E+12 E	5.5E+03	2.7E+03	1.1E+02	5.3E+01
		HQ_inhal	7.3E+05	7.3E+05	7.3E+05	7.3E+05	7.3E+05	6.0E+01		1.2E+00	
		Risk	4.6E+05	4.8E+05	2.1E+05	1.7E+05	4.6E+05	4.4E+02	8.0E+02	9.1E+00	1.6E+01
Antimony	7440-36-0	HQ_ingest	1.6E+09 E	3.2E+08 E	5.2E+06 E	4.4E+06 E	1.6E+09 E	6.4E+03	3.2E+03	1.7E+02	8.2E+01
		HQ_inhal	4.0E+07 E	4.0E+07 E	4.0E+07 E	4.0E+07 E	4.0E+07 E				
		Risk									
Barium	7440-39-3	HQ_ingest	1.2E+11 E	2.1E+10 E	9.6E+08 E	8.3E+08 E	1.2E+11 E	1.2E+08 E	5.7E+07 E	3.5E+05	1.6E+05
		HQ_inhal	2.5E+08 E	2.5E+08 E	2.5E+08 E	2.5E+08 E	2.5E+08 E				
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	2.0E+06 E	2.1E+06 E	1.0E+06 E	7.9E+05	2.0E+06 E	4.7E+04	1.3E+05	8.3E+01	2.3E+02
Butylbenzylphthalate	85-68-7	HQ_ingest	5.1E+14 E	9.5E+13 E	4.3E+11 E	3.5E+11 E	5.7E+13 E				
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest	1.6E+09 E	3.0E+08 E	3.1E+06 E	2.8E+06 E	1.0E+09 E	5.6E+05	2.8E+05	2.1E+03	9.5E+02
		HQ_inhal	9.6E+06 E	9.6E+06 E	9.6E+06 E	9.6E+06 E	9.6E+06 E				
		Risk	2.2E+07 E	2.4E+07 E	2.4E+07 E	1.6E+07 E	2.2E+07 E				
Chloroform	67-66-3	HQ_ingest	1.0E+14 E	1.9E+13 E	5.3E+07 E	4.7E+07 E	1.3E+13 E	7.8E+07 E	3.7E+07 E	9.7E+02	4.7E+02
		HQ_inhal	4.0E+07 E	4.0E+07 E	4.0E+07 E	4.0E+07 E	4.0E+07 E	1.2E+06 E		1.5E+01	
		Risk									
Chromium (III)	16065-83-1	HQ_ingest	3.9E+12 E	7.4E+11 E	3.1E+11 E	1.7E+11 E	3.5E+12 E	1.2E+22 E	6.0E+21 E	3.4E+18 E	1.6E+18 E
		HQ_inhal									
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest	5.5E+10 E	1.0E+10 E	1.3E+09 E	9.1E+08 E	3.5E+10 E	1.3E+05	6.6E+04	3.4E+03	1.5E+03
		HQ_inhal	2.0E+08 E	2.0E+08 E	2.0E+08 E	2.0E+08 E	2.0E+08 E				
		Risk	1.4E+07 E	1.5E+07 E	1.5E+07 E	9.5E+06 E	1.4E+07 E				
Cobalt	7440-48-4	HQ_ingest	8.7E+10 E		2.2E+09 E	1.4E+09 E	8.7E+10 E	7.0E+09 E	3.5E+09 E	8.8E+06 E	4.4E+06 E
		HQ_inhal	6.9E+06 E	6.9E+06 E	6.9E+06 E	6.9E+06 E	6.9E+06 E				
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	6.4E+13 E	1.1E+13 E	2.9E+10 E	2.7E+10 E	3.2E+13 E	7.6E+08 E	3.7E+08 E	2.8E+04 S	3.7E+03
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	1.3E+14 E	2.4E+13 E	6.4E+10 E	5.9E+10 E	5.7E+13 E	9.2E+09 E	4.3E+09 E	2.8E+04 S	3.7E+03
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	1.4E+14 E	2.6E+13 E	1.3E+10 E	1.2E+10 E	4.7E+13 E	9.2E+08 E	4.3E+08 E	2.8E+03	3.7E+02
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	2.5E+13 E	4.5E+12 E	2.8E+10 E	2.5E+10 E	2.5E+13 E				
		HQ_inhal	1.9E+10 E	1.9E+10 E	1.9E+10 E	1.9E+10 E	1.9E+10 E				
		Risk	4.7E+12 E	3.1E+12 E	5.0E+09 E	5.1E+09 E	4.7E+12 E				
Dibutylphthalate	84-74-2	HQ_ingest	1.1E+14 E	1.8E+13 E	4.4E+11 E	3.2E+11 E	1.6E+13 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	6.4E+14 E	1.2E+14 E	1.3E+08 E	1.2E+08 E	6.6E+13 E	4.2E+06 E	2.1E+06 E	6.9E+03	3.2E+03
		HQ_inhal	4.9E+08 E	4.9E+08 E	4.9E+08 E	4.9E+08 E	4.9E+08 E	3.3E+05		5.4E+02	
		Risk	3.1E+07 E	3.2E+07 E	9.9E+06 E	7.9E+06 E	3.1E+07 E	3.5E+05	7.4E+05	6.1E+02	1.2E+03

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	7.1E+13 E	1.3E+13 E	1.1E+11 E	1.0E+11 E	3.5E+13 E	1.3E+13 E	6.4E+12 E	1.2E+05 S	6.7E+02
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	2.0E+09 E	4.1E+08 E	6.1E+06 E	4.6E+06 E	8.7E+05	5.1E+07 E	2.4E+07 E	7.6E+04 S	3.6E+04
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	3.8E+14 E	6.8E+13 E	2.9E+11 E	2.5E+11 E	1.2E+14 E				
		HQ_inhal	2.1E+09 E	2.1E+09 E	2.1E+09 E	2.1E+09 E	2.1E+09 E				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	7.2E+17 E	1.2E+17 E	1.2E+12 E	1.1E+12 E	2.7E+17 E	1.2E+07 E	6.2E+06 E	3.0E+05	1.5E+05
		HQ_inhal	1.6E+12 E	1.6E+12 E	1.6E+12 E	1.6E+12 E	1.6E+12 E	2.8E+07 E		7.0E+05	
		Risk									
Formaldehyde	50-00-0	HQ_ingest	5.9E+14 E	1.1E+14 E	8.0E+09 E	7.9E+09 E	2.3E+14 E	2.9E+06 E	1.4E+06 E	3.0E+04	1.5E+04
		HQ_inhal									
		Risk	6.1E+07 E	6.0E+07 E	6.1E+07 E	4.0E+07 E	6.1E+07 E	9.6E+06 E		1.0E+05	
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	2.1E+05	2.1E+05	2.1E+05	2.1E+05	2.1E+05	8.9E+08 E		2.9E+05 S	
		Risk									
Methanol	67-56-1	HQ_ingest	7.6E+16 E	1.4E+16 E	3.8E+10 E	3.4E+10 E	1.4E+16 E	7.1E+07 E	3.3E+07 E	7.4E+04	3.7E+04
		HQ_inhal	8.6E+10 E	8.6E+10 E	8.6E+10 E	8.6E+10 E	8.6E+10 E	1.9E+08 E		2.0E+05	
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	9.7E+15 E	1.8E+15 E	9.2E+09 E	8.3E+09 E	2.0E+15 E	1.4E+07 E	7.0E+06 E	8.9E+04	4.4E+04
		HQ_inhal	1.2E+09 E	1.2E+09 E	1.2E+09 E	1.2E+09 E	1.2E+09 E	2.2E+05		1.4E+03	
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	5.4E+14 E	9.6E+13 E	1.7E+09 E	1.5E+09 E	1.3E+14 E	2.6E+07 E	1.2E+07 E	1.3E+04	5.9E+03
		HQ_inhal	1.4E+08 E	1.4E+08 E	1.4E+08 E	1.4E+08 E	1.4E+08 E	1.2E+05		6.0E+01	
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	9.5E+15 E	1.7E+15 E	9.6E+09 E	8.5E+09 E	1.4E+15 E	2.9E+07 E	1.4E+07 E	1.6E+05 S	7.4E+04 S
		HQ_inhal	3.8E+08 E	3.8E+08 E	3.8E+08 E	3.8E+08 E	3.8E+08 E	4.1E+04		2.3E+02	
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	2.7E+14 E	4.8E+13 E	4.5E+09 E	4.1E+09 E	9.2E+13 E	3.1E+06 E	1.5E+06 E	1.5E+04	7.4E+03
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest	3.0E+10 E	5.5E+09 E	4.3E+08 E	3.3E+08 E	3.0E+10 E	4.5E+08 E	1.8E+08 E	7.9E+05	3.8E+05
		HQ_inhal	5.0E+07 E	5.0E+07 E	5.0E+07 E	5.0E+07 E	5.0E+07 E				
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal	9.1E+07 E	9.1E+07 E	9.1E+07 E	9.1E+07 E	9.1E+07 E				
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	3.6E+12 E	6.8E+11 E	1.2E+10 E	9.3E+09 E	3.5E+12 E	1.0E+07 E	4.7E+06 E	6.8E+03 S	3.4E+03 S
		HQ_inhal	1.6E+11 E	1.6E+11 E	1.6E+11 E	1.6E+11 E	1.6E+11 E	6.5E+08 E		4.4E+05 S	
		Risk	1.7E+10 E	1.4E+10 E	1.8E+08 E	1.7E+08 E	1.7E+10 E	1.6E+05	2.1E+05	1.2E+02	1.5E+02
Phenol	108-95-2	HQ_ingest	2.0E+15 E	3.8E+14 E	5.1E+11 E	4.7E+11 E	9.2E+14 E	1.2E+09 E	5.7E+08 E	1.1E+05 S	4.4E+04
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest	2.3E+10 E	3.9E+09 E	8.5E+07 E	6.3E+07 E	2.6E+09 E	6.8E+04	3.4E+04	1.7E+03	8.4E+02
		HQ_inhal	4.0E+09 E	4.0E+09 E	4.0E+09 E	4.0E+09 E	4.0E+09 E				
		Risk									
Silver	7440-22-4	HQ_ingest	7.6E+09 E	1.4E+09 E	7.1E+06 E	5.2E+06 E	7.6E+09 E	1.9E+09 E	9.8E+08 E	2.5E+06 E	1.2E+06 E
		HQ_inhal	1.4E+10 E	1.4E+10 E	1.4E+10 E	1.4E+10 E	1.4E+10 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Combined Solids

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	7.0E+14 E	1.2E+14 E	4.5E+11 E	4.0E+11 E	2.6E+14 E	5.0E+75 E	1.7E+33 E	5.0E+45 E	6.7E+03 S
		HQ_inhal	3.9E+09 E	3.9E+09 E	3.9E+09 E	3.9E+09 E	3.9E+09 E	5.0E+75 E		5.0E+45 E	
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	5.5E+13 E	1.0E+13 E	1.6E+10 E	1.5E+10 E	6.1E+12 E	4.6E+05	2.2E+05	7.3E+02 S	3.3E+02 S
		HQ_inhal	7.4E+07 E	7.4E+07 E	7.4E+07 E	7.4E+07 E	7.4E+07 E	2.1E+04		3.5E+01	
		Risk	3.8E+07 E	3.9E+07 E	3.7E+07 E	2.4E+07 E	3.8E+07 E	4.5E+04	6.7E+04	7.2E+01	1.1E+02
Tin	7440-31-5	HQ_ingest	1.0E+12 E	1.9E+11 E	1.3E+10 E	9.5E+09 E	9.9E+11 E	1.4E+19 E	7.4E+18 E	3.1E+15 E	1.6E+15 E
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	8.2E+14 E	1.5E+14 E	3.3E+11 E	3.0E+11 E	1.6E+14 E	2.6E+09 E	1.3E+09 E	1.3E+05 S	6.7E+03 S
		HQ_inhal	2.8E+08 E	2.8E+08 E	2.8E+08 E	2.8E+08 E	2.8E+08 E	7.8E+06 E		3.9E+02	
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	3.1E+16 E	5.5E+15 E	9.0E+09 E	8.3E+09 E	3.6E+15 E				
		HQ_inhal	1.4E+08 E	1.4E+08 E	1.4E+08 E	1.4E+08 E	1.4E+08 E				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	6.8E+15 E	1.2E+15 E	4.1E+12 E	3.7E+12 E	2.3E+15 E				
		HQ_inhal	1.1E+09 E	1.1E+09 E	1.1E+09 E	1.1E+09 E	1.1E+09 E				
		Risk									
Zinc	7440-66-6	HQ_ingest	4.3E+11 E	8.2E+10 E	1.7E+08 E	1.3E+08 E	4.3E+11 E	9.8E+10 E	4.8E+10 E	9.3E+07 E	4.5E+07 E
		HQ_inhal	6.2E+08 E	6.2E+08 E	6.2E+08 E	6.2E+08 E	6.2E+08 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	1.3E+13 E	2.3E+12 E	2.4E+08 E	2.2E+08 E	6.7E+12 E	5.2E+03	2.4E+03	1.2E+01	5.4E+00
		HQ_inhal	1.7E+09 E	1.7E+09 E	1.7E+09 E	1.7E+09 E	1.7E+09 E	8.1E+06 E		1.9E+04	
		Risk	1.7E+08 E	1.8E+08 E	1.4E+07 E	1.4E+07 E	1.7E+08 E	3.1E+02	4.4E+02	7.0E-01	1.0E+00
Acrylonitrile	107-13-1	HQ_ingest	1.1E+13 E	1.9E+12 E	3.6E+06 E	3.2E+06 E	1.2E+12 E	4.0E+03	1.9E+03	8.0E+01	3.9E+01
		HQ_inhal	5.7E+05	5.7E+05	5.7E+05	5.7E+05	5.7E+05	4.3E+01		9.1E-01	
		Risk	3.6E+05	3.6E+05	1.6E+05	1.3E+05	3.6E+05	3.1E+02	5.8E+02	6.4E+00	1.2E+01
Antimony	7440-36-0	HQ_ingest	1.2E+09 E	2.1E+08 E	3.4E+06 E	3.2E+06 E	1.1E+09 E	4.7E+03	2.3E+03	1.3E+02	5.8E+01
		HQ_inhal	3.1E+07 E	3.1E+07 E	3.1E+07 E	3.1E+07 E	3.1E+07 E				
		Risk									
Barium	7440-39-3	HQ_ingest	8.7E+10 E	1.7E+10 E	8.0E+08 E	6.7E+08 E	8.7E+10 E	5.7E+07 E	2.7E+07 E	1.9E+05	9.2E+04
		HQ_inhal	1.9E+08 E	1.9E+08 E	1.9E+08 E	1.9E+08 E	1.9E+08 E				
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	1.7E+06 E	1.7E+06 E	8.0E+05	6.3E+05	1.7E+06 E	3.1E+04	9.2E+04	5.5E+01	1.6E+02
Butylbenzylphthalate	85-68-7	HQ_ingest	4.4E+14 E	7.5E+13 E	3.6E+11 E	3.0E+11 E	4.4E+13 E				
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest	1.2E+09 E	2.3E+08 E	2.6E+06 E	2.2E+06 E	8.4E+08 E	2.6E+05	1.3E+05	1.0E+03	5.1E+02
		HQ_inhal	7.5E+06 E	7.5E+06 E	7.5E+06 E	7.5E+06 E	7.5E+06 E				
		Risk	1.8E+07 E	1.8E+07 E	1.8E+07 E	1.2E+07 E	1.8E+07 E				
Chloroform	67-66-3	HQ_ingest	7.7E+13 E	1.4E+13 E	4.0E+07 E	3.7E+07 E	9.4E+12 E	4.0E+07 E	1.9E+07 E	6.2E+02	2.8E+02
		HQ_inhal	3.1E+07 E	3.1E+07 E	3.1E+07 E	3.1E+07 E	3.1E+07 E	6.0E+05		9.4E+00	
		Risk									
Chromium (III)	16065-83-1	HQ_ingest	3.3E+12 E	5.8E+11 E	2.7E+11 E	1.6E+11 E	3.0E+12 E	6.6E+21 E	3.1E+21 E	1.7E+18 E	9.5E+17 E
		HQ_inhal									
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest	3.4E+10 E	6.5E+09 E	1.1E+09 E	7.2E+08 E	2.5E+10 E	1.4E+05	6.8E+04	2.9E+03	1.4E+03
		HQ_inhal	1.5E+08 E	1.5E+08 E	1.5E+08 E	1.5E+08 E	1.5E+08 E				
		Risk	1.1E+07 E	1.2E+07 E	1.1E+07 E	7.5E+06 E	1.1E+07 E				
Cobalt	7440-48-4	HQ_ingest	7.5E+10 E	1.3E+10 E	1.7E+09 E	1.2E+09 E	7.5E+10 E	3.8E+09 E	1.7E+09 E	4.7E+06 E	2.3E+06 E
		HQ_inhal	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E	5.7E+06 E				
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal	9.3E+06 E	9.3E+06 E	9.3E+06 E	9.3E+06 E	9.3E+06 E				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	4.4E+13 E	8.0E+12 E	2.3E+10 E	2.1E+10 E	2.3E+13 E	4.1E+08 E	1.9E+08 E	1.5E+04	2.6E+03
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	8.8E+13 E	1.7E+13 E	4.3E+10 E	3.9E+10 E	3.9E+13 E	4.0E+09 E	2.0E+09 E	1.5E+04	2.6E+03
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	8.9E+13 E	1.7E+13 E	8.9E+09 E	8.4E+09 E	3.2E+13 E	4.0E+08 E	2.0E+08 E	1.5E+03	2.6E+02
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	2.0E+13 E	3.5E+12 E	2.2E+10 E	2.0E+10 E	2.0E+13 E				
		HQ_inhal	1.6E+10 E	1.6E+10 E	1.6E+10 E	1.6E+10 E	1.6E+10 E				
		Risk	4.0E+12 E	2.6E+12 E	3.9E+09 E	3.9E+09 E	4.0E+12 E				
Dibutylphthalate	84-74-2	HQ_ingest	1.2E+14 E	1.8E+13 E	3.6E+11 E	2.8E+11 E	1.3E+13 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	5.3E+14 E	9.1E+13 E	1.1E+08 E	9.6E+07 E	4.8E+13 E	3.0E+06 E	1.4E+06 E	4.9E+03	2.3E+03
		HQ_inhal	4.2E+08 E	4.2E+08 E	4.2E+08 E	4.2E+08 E	4.2E+08 E	2.4E+05		3.9E+02	
		Risk	2.6E+07 E	2.7E+07 E	7.6E+06 E	6.3E+06 E	2.6E+07 E	2.5E+05	5.3E+05	4.1E+02	8.7E+02

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	4.7E+13 E	8.4E+12 E	8.2E+10 E	7.9E+10 E	2.3E+13 E	5.9E+12 E	3.0E+12 E	4.8E+04 S	4.7E+02
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	1.5E+09 E	2.8E+08 E	4.6E+06 E	3.3E+06 E	6.0E+05	2.0E+07 E	8.9E+06 E	2.5E+04	1.2E+04
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	2.8E+14 E	4.9E+13 E	2.3E+11 E	2.2E+11 E	7.9E+13 E				
		HQ_inhal	1.5E+09 E	1.5E+09 E	1.5E+09 E	1.5E+09 E	1.5E+09 E				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	6.2E+17 E	1.0E+17 E	1.1E+12 E	1.1E+12 E	2.3E+17 E	8.8E+06 E	4.3E+06 E	2.1E+05	1.1E+05
		HQ_inhal	1.5E+12 E	1.5E+12 E	1.5E+12 E	1.5E+12 E	1.5E+12 E	2.0E+07 E		4.9E+05	
		Risk									
Formaldehyde	50-00-0	HQ_ingest	3.9E+14 E	7.2E+13 E	6.0E+09 E	5.3E+09 E	1.6E+14 E	2.0E+06 E	9.3E+05	2.1E+04	1.1E+04
		HQ_inhal									
		Risk	3.8E+07 E	4.1E+07 E	4.0E+07 E	2.6E+07 E	3.8E+07 E	6.3E+06 E		6.7E+04	
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	1.6E+05	1.6E+05	1.6E+05	1.6E+05	1.6E+05	3.9E+08 E		1.1E+05 S	
		Risk									
Methanol	67-56-1	HQ_ingest	5.0E+16 E	9.0E+15 E	2.6E+10 E	2.2E+10 E	8.6E+15 E	4.6E+07 E	2.1E+07 E	5.3E+04	2.6E+04
		HQ_inhal	5.9E+10 E	5.9E+10 E	5.9E+10 E	5.9E+10 E	5.9E+10 E	1.2E+08 E		1.4E+05	
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	6.8E+15 E	1.2E+15 E	6.6E+09 E	5.7E+09 E	1.3E+15 E	9.6E+06 E	4.6E+06 E	6.3E+04	3.2E+04
		HQ_inhal	8.9E+08 E	8.9E+08 E	8.9E+08 E	8.9E+08 E	8.9E+08 E	1.5E+05		1.0E+03	
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	3.9E+14 E	6.8E+13 E	1.3E+09 E	1.2E+09 E	9.1E+13 E	1.5E+07 E	7.4E+06 E	9.1E+03	4.2E+03
		HQ_inhal	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	7.3E+04		4.2E+01	
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	7.2E+15 E	1.2E+15 E	7.3E+09 E	6.5E+09 E	9.4E+14 E	2.0E+07 E	9.4E+06 E	1.1E+05 S	5.4E+04 S
		HQ_inhal	2.8E+08 E	2.8E+08 E	2.8E+08 E	2.8E+08 E	2.8E+08 E	2.8E+04		1.6E+02	
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	1.9E+14 E	3.4E+13 E	3.1E+09 E	2.7E+09 E	6.1E+13 E	2.0E+06 E	9.7E+05	1.1E+04	5.3E+03
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest	2.3E+10 E	4.1E+09 E	3.4E+08 E	2.6E+08 E	2.3E+10 E	2.8E+08 E	1.3E+08 E	4.7E+05	2.2E+05
		HQ_inhal	3.6E+07 E	3.6E+07 E	3.6E+07 E	3.6E+07 E	3.6E+07 E				
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal	7.3E+07 E	7.3E+07 E	7.3E+07 E	7.3E+07 E	7.3E+07 E				
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	3.3E+12 E	5.3E+11 E	1.1E+10 E	7.7E+09 E	3.2E+12 E	5.8E+06 E	2.8E+06 E	4.0E+03 S	2.0E+03 S
		HQ_inhal	1.3E+11 E	1.3E+11 E	1.3E+11 E	1.3E+11 E	1.3E+11 E	3.6E+08 E		2.6E+05 S	
		Risk	1.4E+10 E	1.3E+10 E	1.4E+08 E	1.4E+08 E	1.4E+10 E	9.6E+04	1.3E+05	6.6E+01	8.9E+01
Phenol	108-95-2	HQ_ingest	1.4E+15 E	2.6E+14 E	3.4E+11 E	3.2E+11 E	6.2E+14 E	6.9E+08 E	3.2E+08 E	7.8E+04	3.2E+04
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest	1.7E+10 E	2.9E+09 E	6.4E+07 E	5.0E+07 E	1.8E+09 E	5.0E+04	2.5E+04	1.2E+03	5.9E+02
		HQ_inhal	3.2E+09 E	3.2E+09 E	3.2E+09 E	3.2E+09 E	3.2E+09 E				
		Risk									
Silver	7440-22-4	HQ_ingest	5.6E+09 E	1.0E+09 E	5.4E+06 E	4.2E+06 E	5.6E+09 E	9.0E+08 E	4.4E+08 E	1.1E+06 E	5.5E+05
		HQ_inhal	1.1E+10 E	1.1E+10 E	1.1E+10 E	1.1E+10 E	1.1E+10 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Landfill: Dust

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	5.1E+14 E	8.8E+13 E	3.7E+11 E	3.5E+11 E	1.8E+14 E	5.0E+75 E	1.4E+33 E	5.0E+45 E	4.7E+03 S
		HQ_inhal	2.9E+09 E	2.9E+09 E	2.9E+09 E	2.9E+09 E	2.9E+09 E	5.0E+75 E		5.0E+45 E	
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	4.5E+13 E	7.8E+12 E	1.4E+10 E	1.3E+10 E	4.4E+12 E	2.9E+05	1.4E+05	5.1E+02 S	2.4E+02 S
		HQ_inhal	6.0E+07 E	6.0E+07 E	6.0E+07 E	6.0E+07 E	6.0E+07 E	1.4E+04		2.4E+01	
		Risk	3.2E+07 E	3.1E+07 E	2.8E+07 E	1.9E+07 E	3.2E+07 E	3.0E+04	4.7E+04	4.9E+01	7.8E+01
Tin	7440-31-5	HQ_ingest	8.5E+11 E	1.5E+11 E	1.1E+10 E	7.8E+09 E	8.5E+11 E	8.7E+18 E	4.1E+18 E	2.0E+15 E	8.9E+14 E
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	6.1E+14 E	1.1E+14 E	2.8E+11 E	2.6E+11 E	1.1E+14 E	1.2E+09 E	5.7E+08 E	5.6E+04 S	4.7E+03 S
		HQ_inhal	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	2.1E+08 E	3.7E+06 E		1.8E+02	
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	2.3E+16 E	4.0E+15 E	7.0E+09 E	6.3E+09 E	2.5E+15 E				
		HQ_inhal	1.1E+08 E	1.1E+08 E	1.1E+08 E	1.1E+08 E	1.1E+08 E				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	5.0E+15 E	8.7E+14 E	3.4E+12 E	3.3E+12 E	1.6E+15 E				
		HQ_inhal	7.6E+08 E	7.6E+08 E	7.6E+08 E	7.6E+08 E	7.6E+08 E				
		Risk									
Zinc	7440-66-6	HQ_ingest	3.4E+11 E	6.2E+10 E	1.5E+08 E	1.1E+08 E	3.4E+11 E	4.6E+10 E	1.8E+10 E	3.5E+07 E	1.6E+07 E
		HQ_inhal	4.8E+08 E	4.8E+08 E	4.8E+08 E	4.8E+08 E	4.8E+08 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	3.2E+11 E	6.1E+10 E	4.5E+06 E	4.0E+06 E	1.5E+11 E	2.0E+02	9.7E+01		
		HQ_inhal	4.5E+07 E	4.5E+07 E	4.5E+07 E	4.5E+07 E	4.5E+07 E	3.1E+05			
		Risk	4.2E+06 E	4.6E+06 E	2.3E+05	2.4E+05	4.2E+06 E	1.2E+01	1.8E+01		
Acrylonitrile	107-13-1	HQ_ingest	1.7E+12 E	3.0E+11 E	6.3E+05	6.3E+05	1.6E+11 E	8.4E+02	4.1E+02		
		HQ_inhal	9.1E+04	9.1E+04	9.1E+04	9.1E+04	9.1E+04	9.3E+00			
		Risk	4.9E+04	5.7E+04	2.4E+04	1.9E+04	4.9E+04	6.8E+01	1.2E+02		
Antimony	7440-36-0	HQ_ingest						8.3E+02	3.9E+02		
		HQ_inhal									
		Risk									
Barium	7440-39-3	HQ_ingest						1.5E+07 E	7.2E+06 E		
		HQ_inhal									
		Risk									
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	2.3E+05	2.8E+05	1.2E+05	1.0E+05	2.3E+05	5.6E+02	1.6E+03		
Butylbenzylphthalate	85-68-7	HQ_ingest	5.6E+12 E	1.0E+12 E	1.6E+12 E	5.8E+11 E	5.3E+11 E	1.2E+08 E	5.6E+07 E		
		HQ_inhal									
		Risk									
Cadmium	7440-43-9	HQ_ingest						8.0E+04	3.9E+04		
		HQ_inhal									
		Risk									
Chloroform	67-66-3	HQ_ingest	4.8E+12 E	8.0E+11 E	3.0E+06 E	2.9E+06 E	5.1E+11 E	9.7E+03	4.5E+03		
		HQ_inhal	2.0E+06 E	2.0E+06 E	2.0E+06 E	2.0E+06 E	2.0E+06 E	1.5E+02			
		Risk									
Chromium (III)	16065-83-1	HQ_ingest						2.0E+19 E	9.7E+18 E		
		HQ_inhal									
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Chromium (VI)	18540-29-9	HQ_ingest						1.9E+04	8.8E+03		
		HQ_inhal									
		Risk									
Cobalt	7440-48-4	HQ_ingest						5.0E+08 E	2.4E+08 E		
		HQ_inhal									
		Risk									
Copper	7440-50-8	HQ_ingest									
		HQ_inhal									
		Risk									
Cresol, m-	108-39-4	HQ_ingest	5.1E+10 E	8.8E+09 E	2.0E+07 E	2.0E+07 E	2.1E+10 E	4.9E+04	2.2E+04		
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	4.0E+11 E	8.0E+10 E	2.4E+08 E	2.3E+08 E	1.5E+11 E	5.2E+04	2.5E+04		
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	1.3E+12 E	2.7E+11 E	1.9E+08 E	2.0E+08 E	3.3E+11 E	5.5E+03	2.6E+03		
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	2.3E+14 E	4.2E+13 E	3.3E+09 E	3.3E+09 E	2.3E+14 E	7.6E+09 E	3.6E+09 E		
		HQ_inhal	3.5E+10 E	3.5E+10 E	3.5E+10 E	3.5E+10 E	3.5E+10 E	1.7E+10 E			
		Risk	4.2E+13 E	3.0E+13 E	6.3E+08 E	6.6E+08 E	4.2E+13 E	1.5E+09 E	1.3E+08 E		
Dibutylphthalate	84-74-2	HQ_ingest	4.6E+10 E	8.1E+09 E	1.1E+10 E	4.4E+09 E	5.3E+09 E	1.3E+08 E	5.8E+07 E		
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	8.7E+13 E	1.5E+13 E	2.1E+07 E	2.0E+07 E	6.9E+12 E	5.8E+04	2.8E+04		
		HQ_inhal	7.0E+07 E	7.0E+07 E	7.0E+07 E	7.0E+07 E	7.0E+07 E	4.5E+03			
		Risk	3.7E+06 E	4.5E+06 E	1.2E+06 E	1.1E+06 E	3.7E+06 E	4.9E+03	1.0E+04		

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	6.7E+10 E	1.3E+10 E	3.1E+08 E	2.9E+08 E	2.7E+10 E	3.5E+04	1.7E+04		
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	5.7E+07 E	1.2E+07 E	1.3E+05	9.2E+04	2.5E+04	1.2E+06 E	6.4E+05		
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	7.0E+12 E	1.2E+12 E	2.0E+10 E	1.9E+10 E	2.0E+12 E	6.8E+05	3.2E+05		
		HQ_inhal	4.7E+07 E	4.7E+07 E	4.7E+07 E	4.7E+07 E	4.7E+07 E	1.1E+04			
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	1.3E+14 E	2.3E+13 E	1.7E+08 E	1.6E+08 E	3.6E+13 E	1.6E+06 E	7.9E+05		
		HQ_inhal	8.3E+07 E	8.3E+07 E	8.3E+07 E	8.3E+07 E	8.3E+07 E	3.7E+06 E			
		Risk									
Formaldehyde	50-00-0	HQ_ingest	1.7E+13 E	3.0E+12 E	2.0E+08 E	1.8E+08 E	4.9E+12 E	1.7E+05	8.2E+04		
		HQ_inhal									
		Risk	2.1E+06 E	2.3E+06 E	1.9E+06 E	1.3E+06 E	2.1E+06 E	5.6E+05			
Lead	7439-92-1	HQ_ingest									
		HQ_inhal									
		Risk									
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	5.9E+03	5.9E+03	5.9E+03	5.9E+03	5.9E+03	1.4E+06 E			
		Risk									
Methanol	67-56-1	HQ_ingest	3.1E+15 E	5.9E+14 E	2.0E+09 E	1.8E+09 E	4.7E+14 E	4.2E+05	2.0E+05		
		HQ_inhal	4.0E+09 E	4.0E+09 E	4.0E+09 E	4.0E+09 E	4.0E+09 E	1.1E+06 E			
		Risk									
Methyl ethyl ketone	78-93-3	HQ_ingest	7.2E+14 E	1.3E+14 E	8.5E+08 E	8.0E+08 E	1.1E+14 E	5.2E+05	2.5E+05		
		HQ_inhal	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	8.2E+03			
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl isobutyl ketone	108-10-1	HQ_ingest	2.4E+13 E	4.3E+12 E	9.2E+07 E	9.0E+07 E	4.1E+12 E	7.1E+04	3.4E+04		
		HQ_inhal	6.8E+06 E	6.8E+06 E	6.8E+06 E	6.8E+06 E	6.8E+06 E	3.4E+02			
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	7.0E+14 E	1.2E+14 E	8.4E+08 E	8.3E+08 E	7.1E+13 E	1.5E+06 E	7.1E+05		
		HQ_inhal	3.0E+07 E	3.0E+07 E	3.0E+07 E	3.0E+07 E	3.0E+07 E	2.1E+03			
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	1.5E+13 E	2.7E+12 E	2.7E+08 E	2.5E+08 E	3.5E+12 E	8.5E+04	4.1E+04		
		HQ_inhal									
		Risk									
Nickel	7440-02-0	HQ_ingest						3.4E+07 E	1.8E+07 E		
		HQ_inhal									
		Risk									
Nickel oxide	1313-99-1	HQ_ingest									
		HQ_inhal									
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	5.8E+12 E	1.1E+12 E	7.4E+08 E	5.6E+08 E	5.7E+12 E	6.0E+05	2.5E+05		
		HQ_inhal	6.0E+10 E	6.0E+10 E	6.0E+10 E	6.0E+10 E	6.0E+10 E	4.0E+07 E			
		Risk	9.2E+09 E	8.9E+09 E	1.2E+07 E	1.1E+07 E	9.1E+09 E	1.0E+04	1.2E+04		
Phenol	108-95-2	HQ_ingest	2.2E+13 E	4.1E+12 E	5.0E+09 E	4.9E+09 E	7.7E+12 E	5.7E+05	2.7E+05		
		HQ_inhal									
		Risk									
Selenium	7782-49-2	HQ_ingest						1.3E+04	6.1E+03		
		HQ_inhal									
		Risk									
Silver	7440-22-4	HQ_ingest						8.0E+07 E	4.0E+07 E		
		HQ_inhal									
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Surface Impoundment: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Styrene	100-42-5	HQ_ingest	7.0E+12 E	1.2E+12 E	1.1E+10 E	1.1E+10 E	2.3E+12 E	5.7E+05	2.6E+05		
		HQ_inhal	4.7E+07 E	4.7E+07 E	4.7E+07 E	4.7E+07 E	4.7E+07 E	4.6E+03			
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	4.6E+12 E	7.6E+11 E	2.3E+09 E	2.2E+09 E	4.4E+11 E	1.1E+04	5.1E+03		
		HQ_inhal	6.8E+06 E	6.8E+06 E	6.8E+06 E	6.8E+06 E	6.8E+06 E	4.8E+02			
		Risk	2.9E+06 E	3.4E+06 E	2.7E+06 E	1.9E+06 E	2.9E+06 E	1.0E+03	1.5E+03		
Tin	7440-31-5	HQ_ingest						1.9E+16 E	9.1E+15 E		
		HQ_inhal									
		Risk									
Toluene	108-88-3	HQ_ingest	3.0E+13 E	5.4E+12 E	2.2E+10 E	2.2E+10 E	5.4E+12 E	3.8E+05	1.8E+05		
		HQ_inhal	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+03			
		Risk									
Vinyl acetate	108-05-4	HQ_ingest	1.4E+15 E	2.4E+14 E	4.9E+08 E	4.7E+08 E	1.3E+14 E				
		HQ_inhal	6.6E+06 E	6.6E+06 E	6.6E+06 E	6.6E+06 E	6.6E+06 E				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	9.0E+13 E	1.6E+13 E	1.8E+11 E	1.8E+11 E	2.8E+13 E	1.3E+07 E	6.0E+06 E		
		HQ_inhal	1.7E+07 E	1.7E+07 E	1.7E+07 E	1.7E+07 E	1.7E+07 E	3.9E+03			
		Risk									
Zinc	7440-66-6	HQ_ingest						6.1E+09 E	2.9E+09 E		
		HQ_inhal									
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Acrylamide	79-06-1	HQ_ingest	3.3E+13 E	6.6E+12 E	6.8E+08 E	6.5E+08 E	1.9E+13 E				
		HQ_inhal	3.2E+09 E	3.2E+09 E	3.2E+09 E	3.2E+09 E	3.2E+09 E				
		Risk	3.0E+08 E	3.3E+08 E	3.4E+07 E	3.2E+07 E	3.0E+08 E				
Acrylonitrile	107-13-1	HQ_ingest	6.3E+12 E	1.3E+12 E	2.3E+06 E	2.1E+06 E	7.8E+11 E				
		HQ_inhal	3.0E+05	3.0E+05	3.0E+05	3.0E+05	3.0E+05				
		Risk	1.8E+05	2.0E+05	8.8E+04	6.9E+04	1.8E+05				
Benzene	71-43-2	HQ_ingest									
		HQ_inhal									
		Risk	4.8E+05	5.3E+05	2.5E+05	1.9E+05	4.8E+05				
Butylbenzylphthalate	85-68-7	HQ_ingest	8.8E+13 E	1.8E+13 E	2.5E+13 E	1.0E+13 E	1.5E+13 E				
		HQ_inhal									
		Risk									
Chloroform	67-66-3	HQ_ingest	8.2E+12 E	1.5E+12 E	5.0E+06 E	4.5E+06 E	1.1E+12 E				
		HQ_inhal	3.3E+06 E	3.3E+06 E	3.3E+06 E	3.3E+06 E	3.3E+06 E				
		Risk									
Cresol, m-	108-39-4	HQ_ingest	3.1E+11 E	7.1E+10 E	1.8E+08 E	1.6E+08 E	1.6E+11 E				
		HQ_inhal									
		Risk									
Cresol, o-	95-48-7	HQ_ingest	5.3E+12 E	1.1E+12 E	3.6E+09 E	3.4E+09 E	2.6E+12 E				
		HQ_inhal									
		Risk									
Cresol, p-	106-44-5	HQ_ingest	3.0E+13 E	6.0E+12 E	4.2E+09 E	4.0E+09 E	1.2E+13 E				
		HQ_inhal									
		Risk									
Di(2-ethylhexylphthalate)	117-81-7	HQ_ingest	1.1E+15 E	2.2E+14 E	1.6E+10 E	1.5E+10 E	1.1E+15 E				
		HQ_inhal	1.6E+11 E	1.6E+11 E	1.6E+11 E	1.6E+11 E	1.6E+11 E				
		Risk	2.2E+14 E	1.6E+14 E	3.5E+09 E	3.7E+09 E	2.2E+14 E				

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Dibutylphthalate	84-74-2	HQ_ingest	1.4E+11 E	3.3E+10 E	3.7E+10 E	1.6E+10 E	3.9E+10 E				
		HQ_inhal									
		Risk									
Dichloromethane	75-09-2	HQ_ingest	1.7E+14 E	3.1E+13 E	3.9E+07 E	3.5E+07 E	1.7E+13 E				
		HQ_inhal	1.3E+08 E	1.3E+08 E	1.3E+08 E	1.3E+08 E	1.3E+08 E				
		Risk	7.0E+06 E	8.2E+06 E	2.4E+06 E	2.1E+06 E	7.0E+06 E				
Dimethylphenol, 2,4-	105-67-9	HQ_ingest	5.8E+11 E	1.3E+11 E	5.7E+09 E	4.9E+09 E	3.3E+11 E				
		HQ_inhal									
		Risk									
Divalent mercury	7439-97-6(d)	HQ_ingest	1.9E+10 E	3.7E+09 E	5.9E+07 E	4.1E+07 E	1.1E+07 E				
		HQ_inhal									
		Risk									
Ethylbenzene	100-41-4	HQ_ingest	1.7E+13 E	3.5E+12 E	5.0E+10 E	4.4E+10 E	6.0E+12 E				
		HQ_inhal	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E				
		Risk									
Ethylene glycol	107-21-1	HQ_ingest	4.8E+14 E	1.2E+14 E	1.2E+09 E	1.0E+09 E	2.1E+14 E				
		HQ_inhal	2.6E+08 E	2.6E+08 E	2.6E+08 E	2.6E+08 E	2.6E+08 E				
		Risk									
Formaldehyde	50-00-0	HQ_ingest	3.7E+14 E	7.7E+13 E	6.1E+09 E	5.6E+09 E	1.6E+14 E				
		HQ_inhal									
		Risk	3.8E+07 E	4.2E+07 E	3.9E+07 E	2.5E+07 E	3.8E+07 E				
Mercury	7439-97-6(e)	HQ_ingest									
		HQ_inhal	1.0E+04	1.0E+04	1.0E+04	1.0E+04	1.0E+04				
		Risk									
Methanol	67-56-1	HQ_ingest	3.1E+16 E	6.5E+15 E	1.9E+10 E	1.7E+10 E	6.0E+15 E				
		HQ_inhal	3.6E+10 E	3.6E+10 E	3.6E+10 E	3.6E+10 E	3.6E+10 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Methyl ethyl ketone	78-93-3	HQ_ingest	4.5E+15 E	9.3E+14 E	4.9E+09 E	4.5E+09 E	9.5E+14 E				
		HQ_inhal	5.6E+08 E	5.6E+08 E	5.6E+08 E	5.6E+08 E	5.6E+08 E				
		Risk									
Methyl isobutyl ketone	108-10-1	HQ_ingest	1.1E+14 E	2.4E+13 E	4.3E+08 E	4.0E+08 E	2.9E+13 E				
		HQ_inhal	3.0E+07 E	3.0E+07 E	3.0E+07 E	3.0E+07 E	3.0E+07 E				
		Risk									
Methyl methacrylate	80-62-6	HQ_ingest	2.2E+15 E	4.5E+14 E	2.6E+09 E	2.4E+09 E	3.4E+14 E				
		HQ_inhal	8.5E+07 E	8.5E+07 E	8.5E+07 E	8.5E+07 E	8.5E+07 E				
		Risk									
n-Butyl alcohol	71-36-3	HQ_ingest	1.4E+14 E	2.9E+13 E	2.6E+09 E	2.4E+09 E	4.6E+13 E				
		HQ_inhal									
		Risk									
Pentachlorophenol	87-86-5	HQ_ingest	2.9E+14 E	6.0E+13 E	2.9E+10 E	2.0E+10 E	2.8E+14 E				
		HQ_inhal	2.1E+12 E	2.1E+12 E	2.1E+12 E	2.1E+12 E	2.1E+12 E				
		Risk	3.4E+11 E	3.2E+11 E	5.0E+08 E	4.4E+08 E	3.3E+11 E				
Phenol	108-95-2	HQ_ingest	4.7E+14 E	9.8E+13 E	1.4E+11 E	1.3E+11 E	2.4E+14 E				
		HQ_inhal									
		Risk									
Styrene	100-42-5	HQ_ingest	1.7E+13 E	3.5E+12 E	2.9E+10 E	2.6E+10 E	7.0E+12 E				
		HQ_inhal	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E	1.0E+08 E				
		Risk									
Tetrachloroethylene	127-18-4	HQ_ingest	8.8E+12 E	1.6E+12 E	4.7E+09 E	4.3E+09 E	1.0E+12 E				
		HQ_inhal	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E	1.2E+07 E				
		Risk	5.2E+06 E	6.1E+06 E	5.0E+06 E	3.5E+06 E	5.2E+06 E				
Toluene	108-88-3	HQ_ingest	7.2E+13 E	1.3E+13 E	5.3E+10 E	4.7E+10 E	1.5E+13 E				
		HQ_inhal	2.4E+07 E	2.4E+07 E	2.4E+07 E	2.4E+07 E	2.4E+07 E				
		Risk									

Table A-7. Summary of 90th Percentile Target Waste Concentrations Grouped by Receptor and Pathway for the Waste Stream in Tank: Aqueous Waste

			Aboveground					Groundwater			
			CW (mg/kg)					CW (mg/kg)		CL (mg/L)	
Constituent	**CAS**	**Basis**	**AR**	**CR**	**AF**	**CF**	**F**	**AR**	**CR**	**AR**	**CR**
Vinyl acetate	108-05-4	HQ_ingest	3.6E+15 E	7.0E+14 E	1.2E+09 E	1.1E+09 E	4.4E+14 E				
		HQ_inhal	1.6E+07 E	1.6E+07 E	1.6E+07 E	1.6E+07 E	1.6E+07 E				
		Risk									
Xylene (mixed isomers)	1330-20-7	HQ_ingest	2.1E+14 E	4.2E+13 E	4.2E+11 E	3.8E+11 E	8.1E+13 E				
		HQ_inhal	3.7E+07 E	3.7E+07 E	3.7E+07 E	3.7E+07 E	3.7E+07 E				
		Risk									

Appendix B

Ecological Risk Results

Table B-1 Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Table B-2 Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Table B-3 Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Acrylamide	79-06-1	4.49E-07	4.49E-07	ID	NA	ID	ID	ID	ID
Acrylonitrile	107-13-1	2.35E-05	2.35E-05	ID	NA	ID	ID	ID	ID
Antimony	7440-36-0	6.84E-05	6.83E-05	2E-03	ID	1E-04	2E-04	ID	1E-04
Barium	7440-39-3	3.04E-05	3.01E-05	8E-03	ID	ID	ID	9E-07	ID
Benzene	71-43-2	1.21E-05	1.20E-05	9E-05	NA	2E-08	ID	ID	3E-06
Butylbenzylphthalate	85-68-7	1.09E-07	1.08E-07	7E-09	NA	ID	ID	ID	5E-08
Cadmium	7440-43-9	3.17E-05	3.14E-05	1E-02	1E-02	2E-02	3E-05	2E-02	2E-02
Chloroform	67-66-3	6.39E-06	6.39E-06	2E-04	NA	ID	7E-07	ID	2E-06
Chromium (III)	16065-83-1	9.24E-06	8.64E-06	1E-04	1E-04	2E-05	ID	3E-04	2E-07
Chromium (VI)	18540-29-9	7.13E-06	7.07E-06	6E-04	6E-04	4E-03	8E-07	ID	8E-05
Cobalt	7440-48-4	2.20E-05	2.11E-05	1E-03	ID	ID	4E-04	ID	ID
Copper	7440-50-8	2.53E-05	2.51E-05	3E-03	3E-03	3E-02	2E-04	2E-07	3E-06
Cresol, m-	108-39-4	5.53E-06	5.52E-06	ID	NA	ID	ID	ID	ID
Cresol, o-	95-48-7	3.12E-06	3.12E-06	ID	NA	ID	ID	ID	ID
Cresol, p-	106-44-5	5.01E-07	5.01E-07	ID	NA	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	1.08E-07	9.72E-09	4E-05	NA	ID	ID	5E-07	2E-08
Dibutylphthalate	84-74-2	1.57E-07	1.54E-07	ID	NA	ID	ID	5E-04	ID
Dichloromethane	75-09-2	1.95E-05	1.95E-05	9E-06	NA	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.11E-06	1.11E-06	ID	NA	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	9.99E-07	9.59E-07	4E-01	NA	1E-03	2E-05	9E+01	4E+01
Ethylbenzene	100-41-4	8.74E-07	8.73E-07	1E-04	NA	ID	ID	ID	ID
Ethylene glycol	107-21-1	2.25E-07	2.25E-07	ID	NA	ID	7E-10	ID	ID
Formaldehyde	50-00-0	1.99E-05	1.99E-05	ID	NA	ID	ID	ID	ID
Lead	7439-92-1	1.78E-05	1.50E-05	6E-03	6E-03	4E-05	ID	9E-03	3E-02
Methanol	67-56-1	1.67E-06	1.67E-06	ID	NA	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	1.04E-05	1.04E-05	ID	NA	ID	ID	ID	4E-09
Methyl isobutyl ketone	108-10-1	9.83E-06	9.83E-06	ID	NA	ID	ID	ID	ID
Methyl methacrylate	80-62-6	1.65E-05	1.65E-05	ID	NA	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	1.92E-05	1.92E-05	ID	NA	ID	2E-08	ID	ID
Nickel	7440-02-0	2.59E-05	2.55E-05	5E-04	5E-04	5E-03	1E-05	3E-05	4E-05

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Pentachlorophenol	87-86-5	3.24E-06	3.24E-06	1E-03	NA	ID	1E-05	3E-06	2E-05
Phenol	108-95-2	4.50E-06	4.50E-06	4E-05	NA	2E-07	4E-06	ID	ID
Selenium	7782-49-2	6.47E-05	6.46E-05	1E-02	ID	6E-04	4E-05	2E-02	3E-01
Silver	7440-22-4	2.14E-05	2.08E-05	6E-02	ID	7E-04	ID	ID	ID
Styrene	100-42-5	8.83E-07	8.83E-07	ID	NA	ID	ID	ID	ID
Tetrachloroethylene	127-18-4	5.06E-06	5.06E-06	5E-05	NA	ID	ID	ID	ID
Tin	7440-31-5	1.39E-05	1.23E-05	2E-04	ID	ID	2E-04	ID	ID
Toluene	108-88-3	2.84E-06	2.84E-06	3E-04	NA	1E-08	7E-06	ID	5E-04
Vinyl acetate	108-05-4	8.55E-06	8.55E-06	5E-04	NA	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	7.76E-07	7.75E-07	6E-05	NA	ID	1E-08	ID	ID
Zinc	7440-66-6	2.28E-05	2.20E-05	2E-04	2E-04	8E-04	2E-05	7E-04	8E-05

ID = Insufficient data.
NA = Not applicable.
Note: Divalent mercury number based on the transformation of divalent mercury to methylmercury in the waterbody.

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Acrylamide	79-06-1	5.97E-07	5.97E-07	ID	NA	ID	ID	ID	ID
Acrylonitrile	107-13-1	3.19E-05	3.19E-05	ID	NA	ID	ID	ID	ID
Antimony	7440-36-0	9.07E-05	9.05E-05	3E-03	ID	1E-04	3E-04	ID	2E-04
Barium	7440-39-3	3.69E-05	3.66E-05	9E-03	ID	ID	ID	1E-06	ID
Benzene	71-43-2	1.43E-05	1.43E-05	1E-04	NA	3E-08	ID	ID	4E-06
Butylbenzylphthalate	85-68-7	1.29E-07	1.27E-07	8E-09	NA	ID	ID	ID	6E-08
Cadmium	7440-43-9	4.02E-05	3.98E-05	2E-02	2E-02	2E-02	3E-05	2E-02	2E-02
Chloroform	67-66-3	8.47E-06	8.47E-06	3E-04	NA	ID	1E-06	ID	3E-06
Chromium (III)	16065-83-1	1.05E-05	9.72E-06	1E-04	1E-04	3E-05	ID	3E-04	2E-07
Chromium (VI)	18540-29-9	8.86E-06	8.81E-06	8E-04	8E-04	4E-03	9E-07	ID	1E-04
Cobalt	7440-48-4	2.73E-05	2.65E-05	1E-03	ID	ID	5E-04	ID	ID
Copper	7440-50-8	3.15E-05	3.12E-05	3E-03	4E-03	3E-02	3E-04	3E-07	4E-06
Cresol, m-	108-39-4	6.80E-06	6.80E-06	ID	NA	ID	ID	ID	ID
Cresol, o-	95-48-7	4.81E-06	4.81E-06	ID	NA	ID	ID	ID	ID
Cresol, p-	106-44-5	7.43E-07	7.43E-07	ID	NA	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	1.24E-07	1.12E-08	4E-05	NA	ID	ID	6E-07	2E-08
Dibutylphthalate	84-74-2	1.53E-07	1.50E-07	ID	NA	ID	ID	5E-04	ID
Dichloromethane	75-09-2	2.36E-05	2.36E-05	1E-05	NA	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.57E-06	1.57E-06	ID	NA	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	1.15E-06	1.11E-06	4E-01	NA	1E-03	2E-05	1E+02	4E+01
Ethylbenzene	100-41-4	1.20E-06	1.20E-06	2E-04	NA	ID	ID	ID	ID
Ethylene glycol	107-21-1	2.48E-07	2.48E-07	ID	NA	ID	8E-10	ID	ID
Formaldehyde	50-00-0	3.04E-05	3.04E-05	ID	NA	ID	ID	ID	ID
Lead	7439-92-1	2.15E-05	1.81E-05	7E-03	7E-03	4E-05	ID	1E-02	4E-02
Methanol	67-56-1	2.68E-06	2.68E-06	ID	NA	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	1.45E-05	1.45E-05	ID	NA	ID	ID	ID	6E-09
Methyl isobutyl ketone	108-10-1	1.35E-05	1.35E-05	ID	NA	ID	ID	ID	ID
Methyl methacrylate	80-62-6	2.30E-05	2.30E-05	ID	NA	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	2.91E-05	2.91E-05	ID	NA	ID	2E-08	ID	ID
Nickel	7440-02-0	3.10E-05	3.05E-05	6E-04	6E-04	6E-03	2E-05	4E-05	5E-05

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Pentachlorophenol	87-86-5	3.83E-06	3.82E-06	2E-03	NA	ID	2E-05	3E-06	2E-05
Phenol	108-95-2	6.49E-06	6.49E-06	6E-05	NA	3E-07	6E-06	ID	ID
Selenium	7782-49-2	8.83E-05	8.82E-05	2E-02	ID	9E-04	5E-05	3E-02	4E-01
Silver	7440-22-4	2.67E-05	2.64E-05	7E-02	ID	9E-04	ID	ID	ID
Styrene	100-42-5	1.25E-06	1.25E-06	ID	NA	ID	ID	ID	ID
Tetrachloroethylene	127-18-4	6.65E-06	6.65E-06	7E-05	NA	ID	ID	ID	ID
Tin	7440-31-5	1.68E-05	1.42E-05	2E-04	ID	ID	2E-04	ID	ID
Toluene	108-88-3	3.78E-06	3.78E-06	4E-04	NA	2E-08	1E-05	ID	6E-04
Vinyl acetate	108-05-4	1.18E-05	1.18E-05	7E-04	NA	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	1.08E-06	1.08E-06	8E-05	NA	ID	1E-08	ID	ID
Zinc	7440-66-6	2.81E-05	2.69E-05	2E-04	2E-04	9E-04	2E-05	8E-04	1E-04

ID = Insufficient data.
NA = Not applicable.
Note: Divalent mercury number based on the transformation of divalent mercury to methylmercury in the waterbody.

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Surface Impoundment Aqueous Waste

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Acrylamide	79-06-1	2.24E-08	2.24E-08	ID	NA	ID	ID	ID	ID
Acrylonitrile	107-13-1	1.17E-07	1.17E-07	ID	NA	ID	ID	ID	ID
Benzene	71-43-2	4.87E-08	4.86E-08	4E-07	NA	9E-11	ID	ID	1E-08
Butylbenzylphthalate	85-68-7	6.70E-09	6.61E-09	4E-10	NA	ID	ID	ID	3E-09
Chloroform	67-66-3	7.15E-08	7.15E-08	3E-06	NA	ID	8E-09	ID	2E-08
Cresol, m-	108-39-4	5.80E-06	5.80E-06	ID	NA	ID	ID	ID	ID
Cresol, o-	95-48-7	9.46E-07	9.46E-07	ID	NA	ID	ID	ID	ID
Cresol, p-	106-44-5	5.70E-08	5.70E-08	ID	NA	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	6.96E-12	6.25E-13	2E-09	NA	ID	ID	3E-11	1E-12
Dibutylphthalate	84-74-2	2.98E-07	2.93E-07	ID	NA	ID	ID	1E-03	ID
Dichloromethane	75-09-2	7.44E-08	7.44E-08	3E-08	NA	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.14E-06	1.14E-06	ID	NA	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	2.54E-08	2.41E-08	9E-03	NA	3E-05	4E-07	2E+00	9E-01
Ethylbenzene	100-41-4	2.40E-08	2.40E-08	3E-06	NA	ID	ID	ID	ID
Ethylene glycol	107-21-1	1.10E-06	1.10E-06	ID	NA	ID	3E-09	ID	ID
Formaldehyde	50-00-0	7.91E-07	7.91E-07	ID	NA	ID	ID	ID	ID
Methanol	67-56-1	2.54E-08	2.54E-08	ID	NA	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	9.09E-08	9.09E-08	ID	NA	ID	ID	ID	4E-11
Methyl isobutyl ketone	108-10-1	1.71E-07	1.71E-07	ID	NA	ID	ID	ID	ID
Methyl methacrylate	80-62-6	1.51E-07	1.51E-07	ID	NA	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	3.08E-07	3.08E-07	ID	NA	ID	3E-10	ID	ID
Pentachlorophenol	87-86-5	1.45E-09	1.45E-09	6E-07	NA	ID	6E-09	1E-09	9E-09
Phenol	108-95-2	4.01E-07	4.01E-07	4E-06	NA	2E-08	4E-07	ID	ID
Styrene	100-42-5	5.32E-08	5.32E-08	ID	NA	ID	ID	ID	ID
Tetrachloroethylene	127-18-4	2.81E-08	2.81E-08	3E-07	NA	ID	ID	ID	ID
Toluene	108-88-3	3.87E-08	3.87E-08	4E-06	NA	2E-10	1E-07	ID	6E-06
Vinyl acetate	108-05-4	1.08E-07	1.08E-07	7E-06	NA	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	2.96E-08	2.95E-08	2E-06	NA	ID	4E-10	ID	ID

ID = Insufficient data.
NA = Not applicable.
Note: Divalent mercury number based on the transformation of divalent mercury to methylmercury in the waterbody.

Table B-1. Calculated Hazard Quotients (HQs) for Water Based on 90th Percentile Concentrations

Tank Aqueous Waste

Constituent	CAS	90% Water Concentrations (mg/L)		Water HQ					
				Aquatic Community					
		Total	Dissolved	Total	Dissolved	Aquatic Plants	Amphibian	Bird	Mammal
Acrylamide	79-06-1	1.32E-10	1.32E-10	ID	NA	ID	ID	ID	ID
Acrylonitrile	107-13-1	3.13E-08	3.13E-08	ID	NA	ID	ID	ID	ID
Benzene	71-43-2	2.16E-08	2.16E-08	2E-07	NA	4E-11	ID	ID	6E-09
Butylbenzylphthalate	85-68-7	2.62E-10	2.59E-10	2E-11	NA	ID	ID	ID	1E-10
Chloroform	67-66-3	3.49E-08	3.49E-08	1E-06	NA	ID	4E-09	ID	1E-08
Cresol, m-	108-39-4	5.97E-07	5.97E-07	ID	NA	ID	ID	ID	ID
Cresol, o-	95-48-7	4.23E-08	4.23E-08	ID	NA	ID	ID	ID	ID
Cresol, p-	106-44-5	1.19E-09	1.19E-09	ID	NA	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	8.65E-13	7.77E-14	3E-10	NA	ID	ID	4E-12	1E-13
Dibutylphthalate	84-74-2	4.46E-08	4.39E-08	ID	NA	ID	ID	1E-04	ID
Dichloromethane	75-09-2	3.58E-08	3.58E-08	2E-08	NA	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	6.16E-08	6.16E-08	ID	NA	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	4.73E-11	4.49E-11	2E-05	NA	6E-08	8E-10	4E-03	2E-03
Ethylbenzene	100-41-4	9.35E-09	9.34E-09	1E-06	NA	ID	ID	ID	ID
Ethylene glycol	107-21-1	1.87E-07	1.87E-07	ID	NA	ID	6E-10	ID	ID
Formaldehyde	50-00-0	1.88E-08	1.88E-08	ID	NA	ID	ID	ID	ID
Methanol	67-56-1	2.26E-09	2.26E-09	ID	NA	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	1.29E-08	1.29E-08	ID	NA	ID	ID	ID	5E-12
Methyl isobutyl ketone	108-10-1	2.74E-08	2.74E-08	ID	NA	ID	ID	ID	ID
Methyl methacrylate	80-62-6	4.09E-08	4.09E-08	ID	NA	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	2.31E-08	2.31E-08	ID	NA	ID	2E-11	ID	ID
Pentachlorophenol	87-86-5	1.64E-11	1.64E-11	7E-09	NA	ID	6E-11	1E-11	1E-10
Phenol	108-95-2	1.11E-08	1.11E-08	1E-07	NA	6E-10	1E-08	ID	ID
Styrene	100-42-5	1.82E-08	1.82E-08	ID	NA	ID	ID	ID	ID
Tetrachloroethylene	127-18-4	1.43E-08	1.43E-08	1E-07	NA	ID	ID	ID	ID
Toluene	108-88-3	1.59E-08	1.59E-08	2E-06	NA	6E-11	4E-08	ID	3E-06
Vinyl acetate	108-05-4	3.90E-08	3.90E-08	2E-06	NA	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	1.20E-08	1.20E-08	9E-07	NA	ID	2E-10	ID	ID

ID = Insufficient data.
NA = Not applicable.
Note: Divalent mercury number based on the transformation of divalent mercury to methylmercury in the waterbody.

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Acrylamide	79-06-1	2.71E-07	ID	ID	ID
Acrylonitrile	107-13-1	1.49E-05	ID	ID	ID
Antimony	7440-36-0	1.72E-03	9E-04	ID	4E-05
Barium	7440-39-3	1.46E-02	ID	4E-06	ID
Benzene	71-43-2	3.15E-08	2E-07	ID	7E-12
Butylbenzylphthalate	85-68-7	7.35E-05	4E-06	ID	4E-10
Cadmium	7440-43-9	1.37E-02	2E-02	3E-05	4E-05
Chloroform	67-66-3	1.35E-05	1E-03	ID	5E-09
Chromium (III)	16065-83-1	4.76E-02	ID	2E-04	2E-07
Chromium (VI)	18540-29-9	8.51E-04	ID	ID	2E-06
Cobalt	7440-48-4	2.96E-02	ID	ID	ID
Copper	7440-50-8	1.27E-02	7E-04	2E-06	2E-05
Cresol, m-	108-39-4	1.60E-05	ID	ID	ID
Cresol, o-	95-48-7	9.05E-06	ID	ID	ID
Cresol, p-	106-44-5	1.45E-06	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	5.25E-03	3E-02	4E-05	8E-07
Dibutylphthalate	84-74-2	1.44E-04	ID	4E-06	ID
Dichloromethane	75-09-2	1.84E-05	1E-04	ID	ID
Dimethylphenol, 2,4-	105-67-9	9.30E-06	ID	ID	ID
Divalent mercury	7439-97-6(d)	1.77E-02	1E-01	3E-04	1E-04
Ethylbenzene	100-41-4	3.54E-05	5E-04	ID	ID
Ethylene glycol	107-21-1	1.35E-07	ID	ID	ID
Formaldehyde	50-00-0	1.23E-05	ID	ID	ID
Lead	7439-92-1	1.55E-01	5E-03	2E-02	9E-02
Methanol	67-56-1	1.01E-06	ID	ID	ID
Methyl ethyl ketone	78-93-3	6.62E-06	ID	ID	2E-11
Methyl isobutyl ketone	108-10-1	8.81E-06	ID	ID	ID
Methyl methacrylate	80-62-6	1.36E-05	ID	ID	ID
n-Butyl alcohol	71-36-3	1.40E-05	ID	ID	ID
Nickel	7440-02-0	2.09E-02	1E-03	2E-06	3E-06
Pentachlorophenol	87-86-5	2.59E-04	7E-03	4E-08	4E-07
Phenol	108-95-2	5.77E-06	3E-04	ID	ID
Selenium	7782-49-2	1.34E-03	ID	8E-06	5E-05
Silver	7440-22-4	2.85E-02	4E-02	ID	ID
Styrene	100-42-5	2.50E-05	ID	ID	ID
Tetrachloroethylene	127-18-4	3.59E-05	2E-04	ID	ID
Tin	7440-31-5	9.66E-02	ID	ID	ID

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Toluene	108-88-3	3.22E-05	1E-03	ID	7E-09
Vinyl acetate	108-05-4	6.01E-06	1E-02	ID	ID
Xylene (mixed isomers)	1330-20-7	3.77E-05	2E-04	ID	ID
Zinc	7440-66-6	4.83E-02	4E-04	1E-05	2E-06

ID = Insufficient data.

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Acrylamide	79-06-1	3.61E-07	ID	ID	ID
Acrylonitrile	107-13-1	2.02E-05	ID	ID	ID
Antimony	7440-36-0	2.71E-03	1E-03	ID	6E-05
Barium	7440-39-3	2.16E-02	ID	7E-06	ID
Benzene	71-43-2	1.98E-07	1E-06	ID	4E-11
Butylbenzylphthalate	85-68-7	8.67E-05	5E-06	ID	4E-10
Cadmium	7440-43-9	2.06E-02	3E-02	4E-05	6E-05
Chloroform	67-66-3	1.80E-05	2E-03	ID	7E-09
Chromium (III)	16065-83-1	6.58E-02	ID	3E-04	2E-07
Chromium (VI)	18540-29-9	1.52E-03	ID	ID	3E-06
Cobalt	7440-48-4	4.46E-02	ID	ID	ID
Copper	7440-50-8	1.74E-02	9E-04	3E-06	2E-05
Cresol, m-	108-39-4	1.97E-05	ID	ID	ID
Cresol, o-	95-48-7	1.40E-05	ID	ID	ID
Cresol, p-	106-44-5	2.15E-06	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	6.04E-03	3E-02	5E-05	9E-07
Dibutylphthalate	84-74-2	1.41E-04	ID	4E-06	ID
Dichloromethane	75-09-2	2.22E-05	1E-04	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.32E-05	ID	ID	ID
Divalent mercury	7439-97-6(d)	2.79E-02	2E-01	4E-04	2E-04
Ethylbenzene	100-41-4	4.86E-05	7E-04	ID	ID
Ethylene glycol	107-21-1	1.49E-07	ID	ID	ID
Formaldehyde	50-00-0	1.88E-05	ID	ID	ID
Lead	7439-92-1	2.10E-01	7E-03	3E-02	1E-01
Methanol	67-56-1	1.62E-06	ID	ID	ID
Methyl ethyl ketone	78-93-3	9.23E-06	ID	ID	3E-11
Methyl isobutyl ketone	108-10-1	1.21E-05	ID	ID	ID
Methyl methacrylate	80-62-6	1.89E-05	ID	ID	ID
n-Butyl alcohol	71-36-3	2.12E-05	ID	ID	ID
Nickel	7440-02-0	3.12E-02	2E-03	3E-06	5E-06
Pentachlorophenol	87-86-5	3.04E-04	8E-03	4E-08	4E-07
Phenol	108-95-2	8.31E-06	4E-04	ID	ID
Selenium	7782-49-2	1.91E-03	ID	1E-05	7E-05
Silver	7440-22-4	4.27E-02	6E-02	ID	ID
Styrene	100-42-5	3.52E-05	ID	ID	ID
Tetrachloroethylene	127-18-4	4.71E-05	3E-04	ID	ID
Tin	7440-31-5	1.41E-01	ID	ID	ID

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Toluene	108-88-3	4.29E-05	2E-03	ID	9E-09
Vinyl acetate	108-05-4	8.28E-06	2E-02	ID	ID
Xylene (mixed isomers)	1330-20-7	5.23E-05	3E-04	ID	ID
Zinc	7440-66-6	6.94E-02	6E-04	2E-05	3E-06

ID = Insufficient data.

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Surface Impoundment Aqueous Waste

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Acrylamide	79-06-1	1.35E-08	ID	ID	ID
Acrylonitrile	107-13-1	7.41E-08	ID	ID	ID
Benzene	71-43-2	3.46E-10	2E-09	ID	7E-14
Butylbenzylphthalate	85-68-7	1.17E-09	7E-11	ID	6E-15
Chloroform	67-66-3	6.49E-10	6E-08	ID	3E-13
Cresol, m-	108-39-4	8.64E-08	ID	ID	ID
Cresol, o-	95-48-7	7.34E-09	ID	ID	ID
Cresol, p-	106-44-5	2.03E-10	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	4.22E-11	2E-10	3E-13	6E-15
Dibutylphthalate	84-74-2	2.74E-04	ID	7E-06	ID
Dichloromethane	75-09-2	6.99E-08	4E-07	ID	ID
Dimethylphenol, 2,4-	105-67-9	9.54E-06	ID	ID	ID
Divalent mercury	7439-97-6(d)	3.16E-09	2E-08	4E-11	2E-11
Ethylbenzene	100-41-4	9.75E-07	1E-05	ID	ID
Ethylene glycol	107-21-1	2.10E-09	ID	ID	ID
Formaldehyde	50-00-0	4.88E-07	ID	ID	ID
Methanol	67-56-1	1.53E-08	ID	ID	ID
Methyl ethyl ketone	78-93-3	5.79E-08	ID	ID	2E-13
Methyl isobutyl ketone	108-10-1	1.85E-10	ID	ID	ID
Methyl methacrylate	80-62-6	1.23E-07	ID	ID	ID
n-Butyl alcohol	71-36-3	2.24E-07	ID	ID	ID
Pentachlorophenol	87-86-5	1.07E-07	3E-06	2E-11	1E-10
Phenol	108-95-2	1.10E-09	6E-08	ID	ID
Styrene	100-42-5	1.50E-06	ID	ID	ID
Tetrachloroethylene	127-18-4	1.17E-09	7E-09	ID	ID
Toluene	108-88-3	1.18E-09	4E-08	ID	3E-13
Vinyl acetate	108-05-4	2.30E-10	6E-07	ID	ID
Xylene (mixed isomers)	1330-20-7	4.51E-09	3E-08	ID	ID

ID = Insufficient data.

Table B-2. Calculated Hazard Quotients (HQs) for Sediment Based on 90th Percentile Concentrations

Tank Aqueous Waste

Constituent	CAS	90% Sediment Concentration (mg/kg)	Sediment HQ		
			Sediment Community	Sediment Ingestion	
				Bird	Mammal
Acrylamide	79-06-1	7.96E-11	ID	ID	ID
Acrylonitrile	107-13-1	1.98E-08	ID	ID	ID
Benzene	71-43-2	8.74E-10	5E-09	ID	2E-13
Butylbenzylphthalate	85-68-7	1.76E-07	1E-08	ID	9E-13
Chloroform	67-66-3	7.40E-08	7E-06	ID	3E-11
Cresol, m-	108-39-4	1.73E-06	ID	ID	ID
Cresol, o-	95-48-7	1.23E-07	ID	ID	ID
Cresol, p-	106-44-5	3.46E-09	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	4.20E-08	2E-07	3E-10	6E-12
Dibutylphthalate	84-74-2	4.11E-05	ID	1E-06	ID
Dichloromethane	75-09-2	3.36E-08	2E-07	ID	ID
Dimethylphenol, 2,4-	105-67-9	5.17E-07	ID	ID	ID
Divalent mercury	7439-97-6(d)	7.44E-07	6E-06	1E-08	5E-09
Ethylbenzene	100-41-4	3.79E-07	5E-06	ID	ID
Ethylene glycol	107-21-1	1.13E-07	ID	ID	ID
Formaldehyde	50-00-0	1.16E-08	ID	ID	ID
Methanol	67-56-1	1.36E-09	ID	ID	ID
Methyl ethyl ketone	78-93-3	8.22E-09	ID	ID	3E-14
Methyl isobutyl ketone	108-10-1	2.45E-08	ID	ID	ID
Methyl methacrylate	80-62-6	3.35E-08	ID	ID	ID
n-Butyl alcohol	71-36-3	1.68E-08	ID	ID	ID
Pentachlorophenol	87-86-5	1.26E-09	3E-08	2E-13	2E-12
Phenol	108-95-2	1.42E-08	8E-07	ID	ID
Styrene	100-42-5	5.16E-07	ID	ID	ID
Tetrachloroethylene	127-18-4	1.01E-07	6E-07	ID	ID
Toluene	108-88-3	1.81E-07	7E-06	ID	4E-11
Vinyl acetate	108-05-4	2.74E-08	7E-05	ID	ID
Xylene (mixed isomers)	1330-20-7	5.83E-07	4E-06	ID	ID

ID = Insufficient data.

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Acrylamide	79-06-1	8.54E-06	ID	ID	ID	ID
Acrylonitrile	107-13-1	3.23E-05	3E-08	ID	ID	ID
Antimony	7440-36-0	1.96E-01	ID	4E-02	ID	5E-02
Barium	7440-39-3	4.97E-01	2E-04	1E-03	5E-03	ID
Benzene	71-43-2	1.33E-04	ID	ID	ID	8E-07
Butylbenzylphthalate	85-68-7	1.94E-04	ID	ID	ID	1E-08
Cadmium	7440-43-9	5.33E-01	5E-01	1E-01	3E-01	1E-01
Chloroform	67-66-3	4.65E-05	ID	ID	ID	7E-07
Chromium (III)	16065-83-1	3.35E-01	ID	ID	2E-02	5E-06
Chromium (VI)	18540-29-9	4.58E-02	1E-01	5E-02	ID	4E-04
Cobalt	7440-48-4	5.91E-01	6E-04	3E-02	ID	ID
Copper	7440-50-8	5.18E-01	1E-02	5E-03	2E-02	3E-02
Cresol, m-	108-39-4	5.77E-04	ID	ID	ID	ID
Cresol, o-	95-48-7	2.58E-04	ID	ID	ID	ID
Cresol, p-	106-44-5	2.01E-05	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	4.11E-04	ID	ID	1E-04	8E-07
Dibutylphthalate	84-74-2	4.51E-04	ID	ID	4E-04	ID
Dichloromethane	75-09-2	4.47E-05	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.73E-04	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	1.21E-01	ID	ID	2E-01	3E-02
Ethylbenzene	100-41-4	1.24E-04	1E-03	ID	ID	ID
Ethylene glycol	107-21-1	1.59E-06	2E-08	ID	ID	ID
Formaldehyde	50-00-0	1.84E-04	ID	ID	ID	ID
Lead	7439-92-1	5.57E-01	2E-02	1E-02	2E+00	2E+00
Methanol	67-56-1	3.14E-06	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	2.88E-05	ID	ID	ID	3E-08
Methyl isobutyl ketone	108-10-1	7.23E-05	ID	ID	ID	ID
Methyl methacrylate	80-62-6	7.09E-05	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	1.90E-04	ID	ID	ID	ID
Nickel	7440-02-0	5.51E-01	6E-03	2E-02	4E-03	2E-03
Pentachlorophenol	87-86-5	6.41E-03	1E-03	2E-03	5E-05	2E-04
Phenol	108-95-2	2.22E-04	7E-06	3E-06	ID	ID
Selenium	7782-49-2	1.85E-01	3E-03	2E-01	5E-02	2E-01
Silver	7440-22-4	5.64E-01	1E-02	3E-01	ID	ID
Styrene	100-42-5	1.37E-04	ID	5E-07	ID	ID
Tetrachloroethylene	127-18-4	8.70E-05	9E-04	ID	ID	ID
Tin	7440-31-5	5.10E-01	3E-04	1E-02	ID	ID

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Landfill Combined Solids

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Toluene	108-88-3	1.16E-04	1E-03	6E-07	ID	3E-07
Vinyl acetate	108-05-4	1.54E-05	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	1.41E-04	1E-03	ID	ID	ID
Zinc	7440-66-6	5.80E-01	6E-03	1E-02	4E-02	2E-03

ID = Insufficient data.

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Acrylamide	79-06-1	1.13E-05	ID	ID	ID	ID
Acrylonitrile	107-13-1	4.24E-05	4E-08	ID	ID	ID
Antimony	7440-36-0	2.97E-01	ID	6E-02	ID	7E-02
Barium	7440-39-3	6.67E-01	2E-04	1E-03	7E-03	ID
Benzene	71-43-2	1.59E-04	ID	ID	ID	1E-06
Butylbenzylphthalate	85-68-7	2.17E-04	ID	ID	ID	1E-08
Cadmium	7440-43-9	7.23E-01	7E-01	2E-01	4E-01	2E-01
Chloroform	67-66-3	6.07E-05	ID	ID	ID	9E-07
Chromium (III)	16065-83-1	3.85E-01	ID	ID	2E-02	6E-06
Chromium (VI)	18540-29-9	7.71E-02	2E-01	8E-02	ID	6E-04
Cobalt	7440-48-4	7.10E-01	7E-04	4E-02	ID	ID
Copper	7440-50-8	6.70E-01	1E-02	7E-03	2E-02	4E-02
Cresol, m-	108-39-4	7.67E-04	ID	ID	ID	ID
Cresol, o-	95-48-7	3.69E-04	ID	ID	ID	ID
Cresol, p-	106-44-5	3.19E-05	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	4.83E-04	ID	ID	1E-04	9E-07
Dibutylphthalate	84-74-2	3.66E-04	ID	ID	3E-04	ID
Dichloromethane	75-09-2	5.31E-05	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	2.57E-04	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	1.76E-01	ID	ID	2E-01	4E-02
Ethylbenzene	100-41-4	1.73E-04	2E-03	ID	ID	ID
Ethylene glycol	107-21-1	1.77E-06	2E-08	ID	ID	ID
Formaldehyde	50-00-0	2.84E-04	ID	ID	ID	ID
Lead	7439-92-1	6.68E-01	2E-02	1E-02	2E+00	3E+00
Methanol	67-56-1	4.95E-06	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	4.19E-05	ID	ID	ID	5E-08
Methyl isobutyl ketone	108-10-1	9.98E-05	ID	ID	ID	ID
Methyl methacrylate	80-62-6	9.27E-05	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	2.85E-04	ID	ID	ID	ID
Nickel	7440-02-0	7.72E-01	9E-03	3E-02	6E-03	3E-03
Pentachlorophenol	87-86-5	6.69E-03	1E-03	2E-03	5E-05	2E-04
Phenol	108-95-2	3.10E-04	1E-05	4E-06	ID	ID
Selenium	7782-49-2	2.58E-01	4E-03	3E-01	7E-02	3E-01
Silver	7440-22-4	7.35E-01	1E-02	4E-01	ID	ID
Styrene	100-42-5	1.97E-04	ID	7E-07	ID	ID
Tetrachloroethylene	127-18-4	1.08E-04	1E-03	ID	ID	ID
Tin	7440-31-5	5.91E-01	3E-04	1E-02	ID	ID

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Landfill Dust

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Toluene	108-88-3	1.54E-04	2E-03	8E-07	ID	4E-07
Vinyl acetate	108-05-4	1.99E-05	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	1.98E-04	2E-03	ID	ID	ID
Zinc	7440-66-6	7.57E-01	8E-03	2E-02	5E-02	2E-03

ID = Insufficient data.

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Surface Impoundment Aqueous Waste

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Acrylamide	79-06-1	3.17E-07	ID	ID	ID	ID
Acrylonitrile	107-13-1	1.16E-07	1E-10	ID	ID	ID
Benzene	71-43-2	4.10E-07	ID	ID	ID	3E-09
Butylbenzylphthalate	85-68-7	8.39E-06	ID	ID	ID	5E-10
Chloroform	67-66-3	3.85E-07	ID	ID	ID	6E-09
Cresol, m-	108-39-4	4.17E-04	ID	ID	ID	ID
Cresol, o-	95-48-7	4.65E-05	ID	ID	ID	ID
Cresol, p-	106-44-5	1.19E-06	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	2.23E-08	ID	ID	6E-09	4E-11
Dibutylphthalate	84-74-2	5.16E-04	ID	ID	4E-04	ID
Dichloromethane	75-09-2	1.31E-07	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.02E-04	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	2.78E-03	ID	ID	4E-03	6E-04
Ethylbenzene	100-41-4	2.71E-06	3E-05	ID	ID	ID
Ethylene glycol	107-21-1	4.28E-06	4E-08	ID	ID	ID
Formaldehyde	50-00-0	3.94E-06	ID	ID	ID	ID
Methanol	67-56-1	3.37E-08	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	1.74E-07	ID	ID	ID	2E-10
Methyl isobutyl ketone	108-10-1	7.16E-07	ID	ID	ID	ID
Methyl methacrylate	80-62-6	3.91E-07	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	1.73E-06	ID	ID	ID	ID
Pentachlorophenol	87-86-5	2.19E-06	4E-07	7E-07	2E-08	6E-08
Phenol	108-95-2	1.22E-05	4E-07	2E-07	ID	ID
Styrene	100-42-5	5.43E-06	ID	2E-08	ID	ID
Tetrachloroethylene	127-18-4	4.10E-07	4E-06	ID	ID	ID
Toluene	108-88-3	1.23E-06	1E-05	6E-09	ID	4E-09
Vinyl acetate	108-05-4	1.37E-07	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	4.18E-06	4E-05	ID	ID	ID

ID = Insufficient data.

Table B-3. Calculated Hazard Quotients (HQs) for Soil Based on 90th Percentile Concentrations

Tank Aqueous Waste

Constituent	CAS	90% Soil Concentration (mg/kg)	Soil HQ			
			Soil Community	Terrestrial Plants	Bird	Mammal
Acrylamide	79-06-1	2.45E-09	ID	ID	ID	ID
Acrylonitrile	107-13-1	3.81E-08	4E-11	ID	ID	ID
Benzene	71-43-2	2.24E-07	ID	ID	ID	1E-09
Butylbenzylphthalate	85-68-7	5.67E-07	ID	ID	ID	3E-11
Chloroform	67-66-3	2.43E-07	ID	ID	ID	4E-09
Cresol, m-	108-39-4	6.50E-05	ID	ID	ID	ID
Cresol, o-	95-48-7	3.16E-06	ID	ID	ID	ID
Cresol, p-	106-44-5	4.64E-08	ID	ID	ID	ID
Di(2-ethylhexylphthalate)	117-81-7	4.68E-09	ID	ID	1E-09	9E-12
Dibutylphthalate	84-74-2	1.89E-04	ID	ID	2E-04	ID
Dichloromethane	75-09-2	7.52E-08	ID	ID	ID	ID
Dimethylphenol, 2,4-	105-67-9	1.04E-05	ID	ID	ID	ID
Divalent mercury	7439-97-6(d)	6.49E-06	ID	ID	9E-06	1E-06
Ethylbenzene	100-41-4	1.32E-06	1E-05	ID	ID	ID
Ethylene glycol	107-21-1	1.25E-06	1E-08	ID	ID	ID
Formaldehyde	50-00-0	1.61E-07	ID	ID	ID	ID
Methanol	67-56-1	3.82E-09	ID	ID	ID	ID
Methyl ethyl ketone	78-93-3	3.29E-08	ID	ID	ID	4E-11
Methyl isobutyl ketone	108-10-1	1.77E-07	ID	ID	ID	ID
Methyl methacrylate	80-62-6	1.46E-07	ID	ID	ID	ID
n-Butyl alcohol	71-36-3	2.02E-07	ID	ID	ID	ID
Pentachlorophenol	87-86-5	3.65E-08	6E-09	1E-08	3E-10	9E-10
Phenol	108-95-2	4.81E-07	2E-08	7E-09	ID	ID
Styrene	100-42-5	2.71E-06	ID	9E-09	ID	ID
Tetrachloroethylene	127-18-4	2.29E-07	2E-06	ID	ID	ID
Toluene	108-88-3	6.03E-07	6E-06	3E-09	ID	2E-09
Vinyl acetate	108-05-4	6.05E-08	ID	ID	ID	ID
Xylene (mixed isomers)	1330-20-7	2.16E-06	2E-05	ID	ID	ID

ID = Insufficient data.

Appendix C

Sensitivity Analysis

Appendix C

Sensitivity Analysis

This appendix presents the results of a sensitivity analysis that was performed as part of the deterministic assessment. The purpose of the sensitivity analysis was to identify the most sensitive parameters for each disposal scenario at each site; these parameters would then be set at high-end values for the deterministic analysis. The most sensitive parameters are defined as the model input parameters that, when varied, have a large impact on model outcome. The analysis consisted of selecting a list of parameters shown to be sensitive in other similar analyses and alternately setting all possible pairs of these parameters at high-end to run the model. The resulting waste concentrations were compared, and the parameter combinations producing the lowest concentrations for each waste management scenario and constituent were selected. A discussion of the parameters that were varied for both groundwater and aboveground modeling is provided in Section 3.2.

The following tables summarize the results of the sensitivity analysis:

- Table C-1, High-end Combinations for Aboveground Analysis
- Table C-2, High-end Combinations for Groundwater Analysis.

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Landfill: Combined Solids			
Acrylamide	79-06-1	WMU 10%	Waste Volume
Acrylonitrile	107-13-1	Receptor Distance	Waste Volume
Antimony	7440-36-0	Kd WMU	Waste Volume
Barium	7440-39-3	Kd WMU	Waste Volume
Benzene	71-43-2	Receptor Distance	Waste Volume
Butylbenzylphthalate	85-68-7	Receptor Distance	Waste Volume
Cadmium	7440-43-9	Kd WMU	Waste Volume
Chloroform	67-66-3	Receptor Distance	Waste Volume
Chromium (III)	16065-83-1	ED	Waste Volume
Chromium (VI)	18540-29-9	Receptor Distance	Waste Volume
Cobalt	7440-48-4	Receptor Distance	Waste Volume
Copper	7440-50-8	Receptor Distance	Waste Volume
Cresol, m-	108-39-4	WMU 10%	Waste Volume
Cresol, o-	95-48-7	WMU 10%	Waste Volume
Cresol, p-	106-44-5	Receptor Distance	Waste Volume
Di(2-ethylhexylphthalate)	117-81-7	ED	Waste Volume
Dibutylphthalate	84-74-2	Receptor Distance	Waste Volume
Dichloromethane	75-09-2	ED	Waste Volume
Dimethylphenol, 2,4-	105-67-9	Met	Waste Volume
Divalent mercury	7439-97-6(d)	ED	Waste Volume
Ethylbenzene	100-41-4	Receptor Distance	Waste Volume
Ethylene glycol	107-21-1	WMU 10%	Waste Volume
Formaldehyde	50-00-0	WMU 10%	Waste Volume
Lead	7439-92-1	WMU 10%	Waste Volume
Mercury	7439-97-6(e)	Receptor Distance	Waste Volume
Methanol	67-56-1	WMU 10%	Waste Volume
Methyl ethyl ketone	78-93-3	Receptor Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Receptor Distance	Waste Volume
Methyl methacrylate	80-62-6	Receptor Distance	Waste Volume
n-Butyl alcohol	71-36-3	WMU 10%	Waste Volume
Nickel	7440-02-0	Receptor Distance	Waste Volume
Nickel oxide	1313-99-1	Receptor Distance	Waste Volume
Pentachlorophenol	87-86-5	ED	Waste Volume
Phenol	108-95-2	WMU 10%	Waste Volume

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Selenium	7782-49-2	Kd WMU	Waste Volume
Silver	7440-22-4	Kd WMU	Waste Volume
Styrene	100-42-5	Receptor Distance	Waste Volume
Tetrachloroethylene	127-18-4	Receptor Distance	Waste Volume
Tin	7440-31-5	Kd WMU	Waste Volume
Toluene	108-88-3	Receptor Distance	Waste Volume
Vinyl acetate	108-05-4	Receptor Distance	Waste Volume
Xylene (mixed isomers)	1330-20-7	Receptor Distance	Waste Volume
Zinc	7440-66-6	Kd WMU	Waste Volume

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Landfill: Dust			
Acrylamide	79-06-1	WMU 10%	Waste Volume
Acrylonitrile	107-13-1	Receptor Distance	Waste Volume
Antimony	7440-36-0	Kd WMU	Waste Volume
Barium	7440-39-3	Kd WMU	Waste Volume
Benzene	71-43-2	Receptor Distance	Waste Volume
Butylbenzylphthalate	85-68-7	Receptor Distance	Waste Volume
Cadmium	7440-43-9	Kd WMU	Waste Volume
Chloroform	67-66-3	Receptor Distance	Waste Volume
Chromium (III)	16065-83-1	ED	Waste Volume
Chromium (VI)	18540-29-9	Receptor Distance	Waste Volume
Cobalt	7440-48-4	Receptor Distance	Waste Volume
Copper	7440-50-8	Receptor Distance	Waste Volume
Cresol, m-	108-39-4	WMU 10%	Waste Volume
Cresol, o-	95-48-7	WMU 10%	Waste Volume
Cresol, p-	106-44-5	Receptor Distance	Waste Volume
Di(2-ethylhexylphthalate)	117-81-7	ED	Waste Volume
Dibutylphthalate	84-74-2	Receptor Distance	Waste Volume
Dichloromethane	75-09-2	ED	Waste Volume
Dimethylphenol, 2,4-	105-67-9	Met	Waste Volume
Divalent mercury	7439-97-6(d)	ED	Waste Volume
Ethylbenzene	100-41-4	Receptor Distance	Waste Volume
Ethylene glycol	107-21-1	WMU 10%	Waste Volume
Formaldehyde	50-00-0	WMU 10%	Waste Volume
Lead	7439-92-1	WMU 10%	Waste Volume
Mercury	7439-97-6(e)	Receptor Distance	Waste Volume
Methanol	67-56-1	WMU 10%	Waste Volume
Methyl ethyl ketone	78-93-3	Receptor Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Receptor Distance	Waste Volume
Methyl methacrylate	80-62-6	Receptor Distance	Waste Volume
n-Butyl alcohol	71-36-3	WMU 10%	Waste Volume
Nickel	7440-02-0	Receptor Distance	Waste Volume
Nickel oxide	1313-99-1	Receptor Distance	Waste Volume
Pentachlorophenol	87-86-5	ED	Waste Volume
Phenol	108-95-2	WMU 10%	Waste Volume

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Selenium	7782-49-2	Kd WMU	Waste Volume
Silver	7440-22-4	Kd WMU	Waste Volume
Styrene	100-42-5	Receptor Distance	Waste Volume
Tetrachloroethylene	127-18-4	Receptor Distance	Waste Volume
Tin	7440-31-5	Kd WMU	Waste Volume
Toluene	108-88-3	Receptor Distance	Waste Volume
Vinyl acetate	108-05-4	Receptor Distance	Waste Volume
Xylene (mixed isomers)	1330-20-7	Receptor Distance	Waste Volume
Zinc	7440-66-6	Kd WMU	Waste Volume

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Surface Impoundment: Aqueous Waste			
Acrylamide	79-06-1	ED	WMU 10%
Acrylonitrile	107-13-1	ED	Receptor Distance
Benzene	71-43-2	ED	Receptor Distance
Butylbenzylphthalate	85-68-7	WMU 10%	Waste Volume
Chloroform	67-66-3	Receptor Distance	Waste Volume
Cresol, m-	108-39-4	WMU 10%	Waste Volume
Cresol, o-	95-48-7	WMU 10%	Waste Volume
Cresol, p-	106-44-5	WMU 90%	Waste Volume
Di(2-ethylhexylphthalate)	117-81-7	WMU 90%	ED
Dibutylphthalate	84-74-2	Receptor Distance	Waste Volume
Dichloromethane	75-09-2	ED	Receptor Distance
Dimethylphenol, 2,4-	105-67-9	WMU 10%	Waste Volume
Divalent mercury	7439-97-6(d)	WMU 10%	Kd WMU
Ethylbenzene	100-41-4	Receptor Distance	WMU 10%
Ethylene glycol	107-21-1	Receptor Distance	Waste Volume
Formaldehyde	50-00-0	WMU 10%	Waste Volume
Mercury	7439-97-6(e)	Receptor Distance	Waste Volume
Methanol	67-56-1	WMU 10%	Waste Volume
Methyl ethyl ketone	78-93-3	Receptor Distance	WMU 10%
Methyl isobutyl ketone	108-10-1	Receptor Distance	WMU 10%
Methyl methacrylate	80-62-6	Receptor Distance	WMU 10%
n-Butyl alcohol	71-36-3	WMU 10%	Waste Volume
Pentachlorophenol	87-86-5	WMU 90%	ED
Phenol	108-95-2	WMU 10%	Waste Volume
Styrene	100-42-5	Receptor Distance	WMU 10%
Tetrachloroethylene	127-18-4	ED	Receptor Distance
Toluene	108-88-3	Receptor Distance	WMU 10%
Vinyl acetate	108-05-4	Receptor Distance	WMU 10%
Xylene (mixed isomers)	1330-20-7	Receptor Distance	WMU 10%

Table C-1. High-end Combinations for Aboveground Analysis

Constituent	CAS	High-End Combination	
Tank: Aqueous Waste			
Acrylamide	79-06-1	ED	Waste Volume
Acrylonitrile	107-13-1	ED	Receptor Distance
Benzene	71-43-2	ED	Receptor Distance
Butylbenzylphthalate	85-68-7	Receptor Distance	Met
Chloroform	67-66-3	Receptor Distance	Waste Volume
Cresol, m-	108-39-4	Waste Volume ED	Kd WMU Waste Volume
Cresol, o-	95-48-7	ED Waste Volume	Waste Volume Kd WMU
Cresol, p-	106-44-5	Receptor Distance	Waste Volume
Di(2-ethylhexylphthalate)	117-81-7	Met	ED
Dichloromethane	75-09-2	ED	Receptor Distance
Dimethylphenol, 2,4-	105-67-9	Waste Volume ED	Kd WMU Waste Volume
Divalent mercury	7439-97-6(d)	Kd WMU	Waste Volume
Ethylbenzene	100-41-4	Receptor Distance	Waste Volume
Ethylene glycol	107-21-1	Receptor Distance	Waste Volume
Formaldehyde	50-00-0	Met	Waste Volume
Mercury	7439-97-6(e)	Receptor Distance	Waste Volume
Methanol	67-56-1	Receptor Distance	Waste Volume
Methyl ethyl ketone	78-93-3	Receptor Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Receptor Distance	Waste Volume
Methyl methacrylate	80-62-6	Receptor Distance	Waste Volume
n-Butyl alcohol	71-36-3	Met	Waste Volume
Pentachlorophenol	87-86-5	Met	ED
Phenol	108-95-2	ED Waste Volume	Waste Volume Kd WMU
Styrene	100-42-5	Receptor Distance	Waste Volume
Tetrachloroethylene	127-18-4	ED	Receptor Distance
Toluene	108-88-3	Receptor Distance	Waste Volume
Vinyl acetate	108-05-4	Receptor Distance	Waste Volume
Xylene (mixed isomers)	1330-20-7	Receptor Distance	Waste Volume

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Landfill: Combined Solids			
Acrylamide	79-06-1	Waste Volume	ED
Acrylonitrile	107-13-1	Well Distance	Waste Volume
Antimony	7440-36-0	Well Distance	Waste Volume
Barium	7440-39-3	Waste Volume	Kd aquifer
Benzene	71-43-2	Waste Volume	ED
Cadmium	7440-43-9	Waste Volume	Kd aquifer
Chloroform	67-66-3	Well Distance	Waste Volume
Chromium (III)	16065-83-1	Kd vadose	Kd aquifer
Chromium (VI)	18540-29-9	Well Distance	Waste Volume
Cobalt	7440-48-4	Kd vadose	Kd aquifer
Cresol, m-	108-39-4	Well Distance	Waste Volume
Cresol, o-	95-48-7	Met Well Distance	Waste Volume Waste Volume
Cresol, p-	106-44-5	Met Well Distance	Waste Volume Waste Volume
Dichloromethane	75-09-2	Well Distance	Waste Volume
Dimethylphenol, 2,4-	105-67-9	Waste Volume Depth to GW Met Well Distance	ED Waste Volume Waste Volume Waste Volume
Divalent mercury	7439-97-6(d)	Kd vadose	Kd aquifer
Ethylene glycol	107-21-1	Well Distance	Waste Volume
Formaldehyde	50-00-0	Well Distance	Waste Volume
Mercury	7439-97-6(e)	Depth to GW	Well Distance
Methanol	67-56-1	Well Distance	Waste Volume
Methyl ethyl ketone	78-93-3	Well Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Well Distance	Waste Volume
Methyl methacrylate	80-62-6	Well Distance	Waste Volume
n-Butyl alcohol	71-36-3	Well Distance	Waste Volume
Nickel	7440-02-0	Kd vadose	Kd aquifer
Pentachlorophenol	87-86-5	Waste Volume	ED
Phenol	108-95-2	Well Distance	Waste Volume
Selenium	7782-49-2	Well Distance	Waste Volume
Silver	7440-22-4	Kd vadose	Kd aquifer
Styrene	100-42-5	Met	Waste Volume

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Styrene	100-42-5	Well Distance	Waste Volume
		Waste Volume	ED
		Depth to GW	Waste Volume
Tetrachloroethylene	127-18-4	Well Distance	Waste Volume
Tin	7440-31-5	Kd vadose	Kd aquifer
Toluene	108-88-3	Well Distance	Waste Volume
Zinc	7440-66-6	Kd vadose	Kd aquifer

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Landfill: Dust			
Acrylamide	79-06-1	Waste Volume	ED
Acrylonitrile	107-13-1	Well Distance	Waste Volume
Antimony	7440-36-0	Well Distance	Waste Volume
Barium	7440-39-3	Waste Volume	Kd aquifer
Benzene	71-43-2	Waste Volume	ED
Cadmium	7440-43-9	Waste Volume	Kd aquifer
Chloroform	67-66-3	Well Distance	Waste Volume
Chromium (III)	16065-83-1	Kd vadose	Kd aquifer
Chromium (VI)	18540-29-9	Well Distance	Waste Volume
Cobalt	7440-48-4	Kd vadose	Kd aquifer
Cresol, m-	108-39-4	Well Distance	Waste Volume
Cresol, o-	95-48-7	Well Distance Met	Waste Volume Waste Volume
Cresol, p-	106-44-5	Well Distance Met	Waste Volume Waste Volume
Dichloromethane	75-09-2	Well Distance	Waste Volume
Dimethylphenol, 2,4-	105-67-9	Met Well Distance	Waste Volume Waste Volume
Divalent mercury	7439-97-6(d)	Kd vadose	Kd aquifer
Ethylene glycol	107-21-1	Well Distance	Waste Volume
Formaldehyde	50-00-0	Well Distance	Waste Volume
Mercury	7439-97-6(e)	Depth to GW	Well Distance
Methanol	67-56-1	Well Distance	Waste Volume
Methyl ethyl ketone	78-93-3	Well Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Well Distance	Waste Volume
Methyl methacrylate	80-62-6	Well Distance	Waste Volume
n-Butyl alcohol	71-36-3	Well Distance	Waste Volume
Nickel	7440-02-0	Kd vadose	Kd aquifer
Pentachlorophenol	87-86-5	Waste Volume	ED
Phenol	108-95-2	Well Distance	Waste Volume
Selenium	7782-49-2	Well Distance	Waste Volume
Silver	7440-22-4	Kd vadose	Kd aquifer
Styrene	100-42-5	Well Distance	Waste Volume
Tetrachloroethylene	127-18-4	Well Distance	Waste Volume

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Tin	7440-31-5	Kd vadose	Kd aquifer
Toluene	108-88-3	Well Distance	Waste Volume
Zinc	7440-66-6	Kd vadose	Kd aquifer

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Surface Impoundment: Aqueous Waste			
Acrylamide	79-06-1	Well Distance ED	Waste Volume Well Distance
Acrylonitrile	107-13-1	Well Distance	Waste Volume
Antimony	7440-36-0	Kd aquifer	Well Distance
Barium	7440-39-3	Waste Volume Kd aquifer	Well Distance Well Distance
Benzene	71-43-2	ED	Well Distance
Butylbenzylphthalate	85-68-7	Well Distance	Depth to GW
Cadmium	7440-43-9	Kd aquifer Waste Volume	Well Distance Well Distance
Chloroform	67-66-3	Well Distance	Waste Volume
Chromium (III)	16065-83-1	Kd vadose	Kd aquifer
Chromium (VI)	18540-29-9	Kd aquifer	Well Distance
Cobalt	7440-48-4	Kd aquifer	Well Distance
Cresol, m-	108-39-4	Well Distance	Waste Volume
Cresol, o-	95-48-7	Well Distance	Waste Volume
Cresol, p-	106-44-5	Well Distance	Waste Volume
Di(2-ethylhexylphthalate)	117-81-7	ED Well Distance	Well Distance Depth to GW
Dibutylphthalate	84-74-2	Well Distance	Depth to GW
Dichloromethane	75-09-2	Well Distance	Waste Volume
Dimethylphenol, 2,4-	105-67-9	Well Distance	Waste Volume
Divalent mercury	7439-97-6(d)	Kd vadose	Kd aquifer
Ethylbenzene	100-41-4	Well Distance	Waste Volume
Ethylene glycol	107-21-1	Well Distance	Waste Volume
Formaldehyde	50-00-0	Well Distance	Waste Volume
Mercury	7439-97-6(e)	Well Distance	Depth to GW
Methanol	67-56-1	Well Distance	Waste Volume
Methyl ethyl ketone	78-93-3	Well Distance	Waste Volume
Methyl isobutyl ketone	108-10-1	Well Distance	Waste Volume
Methyl methacrylate	80-62-6	Well Distance	Waste Volume
n-Butyl alcohol	71-36-3	Well Distance	Waste Volume
Nickel	7440-02-0	Waste Volume Kd aquifer	Well Distance Well Distance
Pentachlorophenol	87-86-5	ED	Well Distance

Table C-2. High-end Combinations for Groundwater Analysis

Constituent	CAS	High-End Combination	
Pentachlorophenol	87-86-5	Well Distance	Waste Volume
Phenol	108-95-2	Well Distance	Waste Volume
Selenium	7782-49-2	Waste Volume	Well Distance
Silver	7440-22-4	Kd vadose	Kd aquifer
Styrene	100-42-5	Well Distance	Waste Volume
Tetrachloroethylene	127-18-4	Well Distance	Waste Volume
Tin	7440-31-5	Kd vadose	Kd aquifer
Toluene	108-88-3	Well Distance	Waste Volume
Xylene (mixed isomers)	1330-20-7	Well Distance	Waste Volume
Zinc	7440-66-6	Kd vadose	Kd aquifer