Project Number: Risk 0060

Write Project Notes Here

Concentration of Ammonicael N in ground	adveter [mg/]	
Concentration of Ammoniacai_iv in grour	idwater [mg/i]	
At 30 years		
50% of values less than 0.06		
90% of values less than 0.06		
95% of values less than 0.06		
99% of values less than 0.06		
Minimum 0.06		
Mean 0.06	Std. Dev. 7.16485E-009	Variance -5.13351E-017
At 100 years		
01% of values less than 0.06		
05% of values less than 0.06		
10% of values less than 0.06		
50% of values less than 0.06		
90% of values less than 0.06		
95% of values less than 0.06		
99% of values less than 0.06		
Minimum 0.06	Maximum 0.06	
Mean 0.06	Std. Dev. 2.02204E-009	Variance -4.08864E-018
At 300 years		
01% of values less than 0.06		
05% of values less than 0.06		
10% of values less than 0.06		
50% of values less than 0.06		
90% of values less than 0.06		
95% of values less than 0.06		
99% of values less than 0.06		
Minimum 0.06	Maximum 0.06	
Mean 0.06	Std. Dev. 3.62967E-009	Variance -1.31745E-017
At 1000 years		
01% of values less than 0.06		
05% of values less than 0.06		
10% of values less than 0.06		
50% of values less than 0.06		
90% of values less than 0.06		
95% of values less than 0.06		
99% of values less than 0.06		
Minimum 0.06	Maximum 0.06	
Mean 0.06	Std. Dev. 2.69605E-009	Variance -7.26869E-018

Project Number: Risk 0060

Write Project Notes Here

Customer: Woodcote Quarry Landfill

Concentration of Ammoniacal_N in groundwater [mg/l]At infinity01% of values less than 0.0605% of values less than 0.0610% of values less than 0.0650% of values less than 0.0690% of values less than 0.0695% of values less than 0.0699% of values less than 0.0699% of values less than 0.06Minimum 0.06MaximumMean 0.06Std. Dev.

Maximum 0.06 Std. Dev. 7.10116E-009

Variance -5.04265E-017

Project Number: Risk 0060

Write Project Notes Here

Concentration of Cadmium in ground	dwater [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
90% of values less than 0		
$\frac{33}{0}$ of values less that 0	Maximum 0	
Mean 0	Std Dev 0	Variance 0
Micall V	JU. DEV. U	valialite U

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

Write Project Notes Here

Customer: Woodcote Quarry Landfill

Concentration of Cadmium in groundwater [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0

Mean 0

Maximum 0 Std. Dev. 0

Project Number: Risk 0060

Write Project Notes Here

Concentration of Chloride in aroundwate	r [ma/l]	
At 30 years		
01% of values less than 31.0789		
05% of values less than 40.4964		
10% of values less than 45.2533		
50% of values less than 75.223		
90% of values less than 127.299		
95% of values less than 144.808		
99% of values less than 187.667		
Minimum 29.0726	Maximum 261.114	
Mean 82.3984	Std. Dev. 33.7118	Variance 1136.48
At 100 years		
01% of values less than 31.3549		
05% of values less than 32.6362		
10% of values less than 33.5291		
50% of values less than 39.1194		
90% of values less than 50.2952		
95% of values less than 55.2279		
99% of values less than 67.2569		
Minimum 30.1735	Maximum 89.1377	
Mean 40.9647	Std. Dev. 7.4238	Variance 55.1129
At 300 years		
At 500 years 0.1% of values less than 20 5644		
01% of values less than 30.3044		
10% of values less than 31.3310		
50% of values less than 31.655		
30% of values less than $34.34%$		
90% of values less than 39.3190		
95% of values less than 46.243		
99% Of values less than 40.245 Minimum 20.6726	Maximum 52 3130	
Maan 35 3006	Std. Dev. 3 25214	Variance 10 5764
Mean 33.3030	Siu. Dev. 3.23214	Valiance 10.07.04
At 1000 years		
01% of values less than 29.3594		
05% of values less than 29.6607		
10% of values less than 29.8909		
50% of values less than 31.1283		
90% of values less than 32.5546		
95% of values less than 33.5455		
99% of values less than 36.0443		
Minimum 29.1686	Maximum 41.151	
Mean 31.2766	Std. Dev. 1.31796	Variance 1.73702

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Customer: Woodcote Quarry Landfill

Concentration of Chloride in groundwater [mg/l]

At infinity 01% of values less than 29.0168 05% of values less than 29.1145 10% of values less than 29.2317 50% of values less than 30.2306 90% of values less than 31.1907 95% of values less than 31.3204 99% of values less than 31.3864 Minimum 29.0001 Mean 30.2211

Maximum 31.3959 Std. Dev. 0.7014

Variance 0.491961

Project Number: Risk 0060

Write Project Notes Here

Concentration of Copper in groundw	ater [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

Write Project Notes Here

Customer: Woodcote Quarry Landfill

Concentration of Copper in groundwater [mg/l]

At infinity 01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0

Mean 0

Maximum 0 Std. Dev. 0

Concentration of Mercury in groundwater [r	ng/l]	
At 30 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 100 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 300 years		
01% of values less than 5 17396E-005		
05% of values less than 6 03909E-005		
10% of values less than 7 02368E-005		
50% of values less than 0 000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000220004		
Minimum 5 01392E-005	Maximum 0 000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 1000 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Customer: Woodcote Quarry Landfill

Concentration of Mercury in groundwater [mg	g/l]
At infinity	
01% of values less than 5.17396E-005	
05% of values less than 6.03909E-005	
10% of values less than 7.02368E-005	
50% of values less than 0.000147989	
90% of values less than 0.000219549	
95% of values less than 0.000228954	
99% of values less than 0.000238243	
Minimum 5.01392E-005	Maximum 0.000239936
Mean 0.000146638	Std. Dev. 5.41572E-005

Variance 2.933E-009

Project Number: Risk 0060

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Concentration of Naphthalene in groundv	vater [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Concentration of Naphthalene in groundwater [mg/l] At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project Number: Risk 0060

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	- (// 1	
Concentration of Toluene in groundw	ater [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum ()	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	

Woodcote Quarry Double Rainfall.sim

Mean 0

Std. Dev. 0

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Customer: Woodcote Quarry Landfill

Concentration of Toluene in groundwater [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0

Mean 0

Maximum 0 Std. Dev. 0

Project Number: Risk 0060

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Concentration of Zinc in groundwater [mo	/11	
At 30 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.0405148		
50% of values less than 0.0903446		
90% of values less than 0.134053		
95% of values less than 0.138946		
99% of values less than 0.144073		
Minimum 0.0300386	Maximum 0.144825	
Mean 0.0883738	Std. Dev. 0.0337989	Variance 0.00114236
At 100 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.0405148		
50% of values less than 0.0903446		
90% of values less than 0.134053		
95% of values less than 0.138946		
99% of values less than 0.144073		
Minimum 0.0300386	Maximum 0.144825	
Mean 0.0883738	Std. Dev. 0.0337989	Variance 0.00114236
At 300 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.0405148		
50% of values less than 0.0903446		
90% of values less than 0.134053		
95% of values less than 0.138946		
99% of values less than 0.144073		
Minimum 0.0300386	Maximum 0.144825	
Mean 0.0883738	Std. Dev. 0.0337989	Variance 0.00114236
At 1000 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.040564		
50% of values less than 0.0905762		
90% of values less than 0.134471		
95% of values less than 0.139416		
99% of values less than 0.144614		
Minimum 0.0300386	Maximum 0.303061	
Mean 0.0887803	Std. Dev. 0.0346107	Variance 0 0011979

Project Number: Risk 0060

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Concentration of Zinc in groundwater [mg/l]

At infinity

01% of values less than 0.0316671 05% of values less than 0.0375142 10% of values less than 0.0439158 50% of values less than 0.0950162 90% of values less than 0.136562 95% of values less than 0.141964 99% of values less than 0.156953 Minimum 0.030056 Mean 0.0919938

Maximum 0.16631 Std. Dev. 0.0344176

Variance 0.00118457

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Calculation Settings

Number of iterations: 1001 Results calculated using sampled PDFs Full Calculation

Clay Liner:

Retarded values used for simulation Biodegradation

Unsaturated Pathway:

Retarded values used for simulation Biodegradation

Saturated Vertical Pathway: No Vertical Pathway

Aquifer Pathway: Retarded values used for simulation Biodegradation

Timeslices at: 30, 100, 300, 1000

Decline in Contaminant Concentration in Leachate

Ammoniacal_N	Non-Volatile
c (kg/l): 0.59	m (kg/l): 0
Cadmium	Non-Volatile
c (kg/l): 0.1589	m (kg/l): 0.0823
Chloride	Non-Volatile
c (kg/l): 0.2919	m (kg/l): 0.0298
Copper	Non-Volatile
c (kg/l): -0.0488	m (kg/l): 0.0664
Mercury	Non-Volatile
c (kg/l): 0.1643	m (kg/l): 0.0767
Naphthalene Half life (years): 10	Volatile
Toluene Half life (years): 10	Volatile
Zinc	Non-Volatile

Non-Volatile m (kg/l): 0.0403

c (kg/l): 0.0561

Customer: Woodcote Quarry Landfill

Project Number: Risk 0060

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Contaminant Half-lives (years)

RECORD OF RISK ASSESSMENT MODEL	

Customer: Woodcote Quarry Landfill

Clay Liner:	
Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(1e+009)
Chloride	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.69)
Toluene	UNIFORM(0.16,0.57)
Zinc	SINGLE(1e+009)
Unsaturated Pathway:	
Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(1e+009)
Chloride	SINGLE(1e+009)
Copper	SINGLE(1e+009)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.06)
Toluene	UNIFORM(0.14,1.5)

Aquifer Pathway:

Zinc

Ammoniacal_N
Cadmium
Chloride
Copper
Mercury
Naphthalene
Toluene
Zinc

SINGLE(6) SINGLE(6e-005) SINGLE(1e+009) LOGTRIANGULAR(0.009,0.02125,0.076) SINGLE(1e+009) SINGLE(0.387) UNIFORM(0.1,0.2) SINGLE(1e+009)

SINGLE(1e+009)

Project Number: Risk 0060

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Background Concentrations of Contaminants

Justification for Contaminant Properties WAC Soil Testing and Leachate tests at Chadwich Lane

All units in milligrams per litre

Ammoniacal_N Chloride Mercury Zinc SINGLE(0.06) UNIFORM(29,31.4) UNIFORM(5e-005,0.00024) UNIFORM(0.03,0.145)

Phase: Phase 1

Infiltration Information	
Cap design infiltration (mm/year):	SINGLE(50)
Infiltration to waste (mm/year):	SINGLE(320)
Infiltration to grassland (mm/year):	SINGLE(50)
End of filling (years from start of waste deposit):	10
Start of cap degradation (years from end of waste deposit):	100
End of cap degradation (years from end of waste deposit):	1000

Justification for Specified Infiltration Based on ESID and Met Office Data [CHANGED]

Duration of management control (years from the start of waste disposal): 18

Cell dimensions

Cell width (m):	500
Cell length (m):	750
Cell top area (ha):	39.375
Cell base area (ha):	37.5
Number of cells:	1
Total base area (ha):	37.5
Total top area (ha):	39.375
Head of Leachate when surface water breakout occurs (m)	SINGLE(17)
Waste porosity (fraction)	SINGLE(0.1)
Final waste thickness (m):	TRIANGULAR(17,30,43)
Field capacity (fraction):	SINGLE(0.3)
Waste dry density (kg/l)	SINGLE(2)

Justification for Landfill Geometry Based on HRA 2 and HRA 3

Source concentrations of contaminants

All units in milligrams per litre

Declining source term

Ammoniacal_N	LOGTRIANGULAR(0.1,0.6,1.6)
	Data are spot measurements of Leachate Quality
Cadmium	LOGTRIANGULAR(0.0001,0.0016,0.004)
	Substance to be treated as List 1
Chloride	LOGTRIANGULAR(0.01,19.1,160)
	Data are spot measurements of Leachate Quality
Copper	LOGTRIANGULAR(0.009,0.016,0.076)
	Data are spot measurements of Leachate Quality
Mercury	LOGTRIANGULAR(1e-005,4.5e-005,0.0001)
	Substance to be treated as List 1
Naphthalene	LOGTRIANGULAR(0.01,0.1,0.2)
	Substance to be treated as List 1
Toluene	LOGTRIANGULAR(0.01,0.05,0.15)
	Substance to be treated as List 1
Zinc	LOGTRIANGULAR(0.01,0.023,0.4)
	Data are spot measurements of Leachate Quality

Justification for Species Concentration in Leachate

Based on Half life degreadtion rates as per EA report on ammonia and Toluene, Napthalene

Drainage Information

Fixed Head. Head on EBS is given as (m):

SINGLE(1)

Justification for Specified Head 1metre limit assumed above geological barrier Project Number: Risk 0060

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Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type 1 metre geological barrier

Design thickness of clay (m): Density of clay (kg/l): Pathway moisture content (fraction):

Justification for Clay: Liner Thickness CQA Design Spacification

Hydraulic conductivity of liner (m/s): Pathway longitudinal dispersivity (m):

Justification for Clay: Hydraulics Properties Source Evaluation Testing on adjoining phase

Retardation parameters for clay liner Uncertainty in Kd (l/kg): Ammoniacal_N Cadmium Chloride Copper Mercury Naphthalene Toluene Zinc

Justification for Liner Kd Values by Species EA 2003 and USEPA1999 RECORD OF RISK ASSESSMENT MODEL

Customer: Woodcote Quarry Landfill

SINGLE(1) SINGLE(1.9) UNIFORM(0.19,0.2)

TRIANGULAR(1e-009,1e-008,1e-007) SINGLE(0.1)

UNIFORM(7.3,8.5) SINGLE(222.2) SINGLE(0) SINGLE(126.8) SINGLE(3835.5) LOGTRIANGULAR(488,1102,2309) LOGTRIANGULAR(57,130,272) SINGLE(20.7)

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Sherwood Sandstone pathway parameters	
Modelled as unsaturated pathway	
Pathway length (m):	TRIANGULAR(1,6,10)
Flow Model:	porous medium
Pathway moisture content (fraction):	UNIFORM(0.15,0.2)
Pathway Density (kg/l):	SINGLE(1.9)
Justification for Unsat Zone Geometry	
Based on groundwater level monitoring Appendix HRA 4	and Drawing HRA 3 [CHANGED]
Pathway hydraulic conductivity values (m/s):	TRIANGULAR(1.95e-005,2.46e-005,0.0001007)
Justification for Unsat Zone Hydraulics Properties Site investigations Appendices 1-3	
Pathway longitudinal dispersivity (m):	UNIFORM(0.05,0.13)
Justification for Unsat Zone Dispersion Properties	
10% of pathway length	
Retardation parameters for Sherwood Sandstone pathway	
Modelled as unsaturated pathway	
Uncertainty in Kd (l/kg):	
Ammoniacal_N	LOGUNIFORM(0.43,1.79)
Cadmium	SINGLE(240)
Chloride	SINGLE(0)
Copper	SINGLE(295)
Mercury	SINGLE(450)
Naphthalene	LOGTRIANGULAR(488,1102,2309)
Toluene	LOGTRIANGULAR(57,130,272)
Zinc	LOGTRIANGULAR(1.1,200,600)
Justification for Kd Values by Species	
EA2003 and USEPA 1999	

Aquifer Pathway Dimensions for Phase

Pathway length (m): Pathway width (m): UNIFORM(1000,1200) SINGLE(200)

pathway parameters

No Vertical Pathway

RECORD OF RISK ASSESSMENT MODEL

Customer: Woodcote Quarry Landfill

SINGLE(50)

SINGLE(0.0143)

SINGLE(0.2)

UNIFORM(4.6e-006,8e-006)

Modelled as aquifer pathway.

Mixing zone (m):

Justification for Aquifer Geometry HRA 2

Pathway regional gradient (-): Pathway hydraulic conductivity values (m/s): Pathway porosity (fraction):

Justification for Aquifer Hydraulics Properties Appendices HRA1-3

Pathway longitudinal dispersivity (m):	SINGLE(60)
Pathway transverse dispersivity (m):	SINGLE(18)

Justification for Aquifer Dispersion Details 10% of pathway length and 3% transverse [CHANGED]

Retardation parameters for Sherwood Sandstone pathway	
Modelled as aquifer pathway.	
Uncertainty in Kd (l/kg):	
Ammoniacal_N	UNIFORM(0.43,1.79)
Cadmium	LOGTRIANGULAR(3.7,74,1500)
Chloride	SINGLE(0)
Copper	SINGLE(295)
Mercury	SINGLE(450)
Naphthalene	LOGTRIANGULAR(488,1102,2309)
Toluene	LOGTRIANGULAR(57,130,272)
Zinc	LOGTRIANGULAR(1.1,200,600)

Justification for Aquifer Kd Values by Species EA 2003 and USEPA 1999

Pathway Density (kg/l):

SINGLE(1.9)

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Ammoniacal_N at Phase	e Monitor Well [mg/l]	
At 30 years		
01% of values less than 0.06		
05% of values less than 0.06		
10% of values less than 0.06		
50% of values less than 0.06		
90% of values less than 0.0600008		
95% of values less than 0.0600026		
99% of values less than 0.0600135		
Minimum 0.06	Maximum 0.0600718	
Mean 0.0600006	Std. Dev. 3.33768E-006	Variance 1.11401E-011
At 100 years		
01% of values less than 0.06		
05% of values less than 0.0600035		
10% of values less than 0.0600154		
50% of values less than 0.0602392		
90% of values less than 0.0610263		
95% of values less than 0.0614221		
99% of values less than 0.0624093		
Minimum 0.06	Maximum 0.0648184	
Mean 0.060411	Std. Dev. 0.000499942	Variance 2.49942E-007
At 300 years		
01% of values less than 0.06		
05% of values less than 0.0600067		
10% of values less than 0.060019		
50% of values less than 0.0602039		
90% of values less than 0.0608414		
95% of values less than 0.0611345		
99% of values less than 0.0619039		
Minimum 0.06	Maximum 0.0640453	
Mean 0.0603402	Std. Dev. 0.000406145	Variance 1.64953E-007
At 1000 years		
01% of values less than 0.06		
05% of values less than 0.0600055		
10% of values less than 0.0600145		
50% of values less than 0.0601516		
90% of values less than 0.0606168		
95% of values less than 0.0608516		
99% of values less than 0.0613674		
Minimum 0.06	Maximum 0.0629305	
Mean 0.0602509	Std. Dev. 0.000298892	Variance 8.93364E-008

Project: Woodcote Quarry Landfill

RECORD OF RISK ASSESSMENT RESULTS

Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Ammoniacal_N at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0.06 05% of values less than 0.0600009 10% of values less than 0.06000227 50% of values less than 0.0601115 95% of values less than 0.0601478 99% of values less than 0.0602595 Minimum 0.06 Mean 0.0600427

Maximum 0.0605858 Std. Dev. 5.57112E-005

Variance 3.10373E-009

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Cadmium at Phase	e Monitor Well [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Cadmium at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

A1 30 years 01% of values less than 31.8406 05% of values less than 34.5039 10% of values less than 34.5039 50% of values less than 41.1595 90% of values less than 53.6667 99% of values less than 53.6667 99% of values less than 53.6667 99% of values less than 52.01 99% of values less than 67.7218 Minimum 30.382 Maximum 84.5598 Mean 43.0424 Std. Dev. 8.02598 Values less than 30.4391 05% of values less than 31.6114 50% of values less than 31.6114 50% of values less than 31.6114 50% of values less than 30.4391 06% of values less than 30.4391 00% of values less than 30.4391 08% of values less than 30.4391 00% of values less than 30.4391 08% of values less than 30.4391 00% of values less than 30.4391 08% of values less than 30.4391 00% of values less than 30.7944 99% of values less than 30.7944 99% of values less than 30.5172 Variance 7.35253 At 300 years 01% of values less than 32.6223 00% of values less than 32.623 90% of values less than 32.6243 90% of values less than 32.623 90% of values less than 32.6245 90% of values less than 32.6245 Std. Dev. 1.81163 Variance 3.28201	Concentration of Chloride at Phase Monito	or Well [mg/l]	
01% of values less than 31.8406 05% of values less than 33.395 10% of values less than 33.395 00% of values less than 41.1595 90% of values less than 53.6667 95% of values less than 67.7218 Minimum 30.382 Maximum 84.5598 Wean 43.0424 Std. Dev. 8.02598 Variance 64.4164 At 100 years 01% of values less than 30.4391 05% of values less than 31.041 50% of values less than 31.6114 50% of values less than 33.0666 Maximum 48.1178 90% of values less than 43.0066 Maximum 29.6296 Maximum 48.1178 Mean 34.6311 Std. Dev. 2.71155 Variance 7.35253 At 300 years 01% of values less than 30.5172 10% of values less than 32.6623 90% of values less than 32.6221 90% of values less than 32.6221 90% of values less than 32.6221 90% of values less than 32.623 90% of values less than 32.623 90% of values less than 32.623 90% of values less than 32.623 90% of values less than 32.623 Variance 3.28201 At 1000 years 01% of values less than 29.4766 Xd. Dev. 1.81163 <t< td=""><td>At 30 years</td><td></td><td></td></t<>	At 30 years		
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10% of values less than 30.863450% of values less than 32.662390% of values less than 35.320795% of values less than 36.22199% of values less than 38.7549Minimum 29.3778Maximum 41.5261Mean 32.945Xt 1000 years01% of values less than 29.269805% of values less than 29.476610% of values less than 29.677550% of values less than 30.787990% of values less than 31.8862	05% of values less than 30.5172		
50% of values less than 32.662390% of values less than 35.320795% of values less than 36.22199% of values less than 38.7549Minimum 29.3778Maximum 41.5261Mean 32.945Std. Dev. 1.81163Variance 3.28201At 1000 years01% of values less than 29.269805% of values less than 29.476610% of values less than 29.477550% of values less than 30.787990% of values less than 31.8862	10% of values less than 30.8634		
90% of values less than 35.3207 95% of values less than 36.221 99% of values less than 38.7549 Minimum 29.3778 Maximum 41.5261 Mean 32.945 Std. Dev. 1.81163 Variance 3.28201 At 1000 years 01% of values less than 29.2698 05% of values less than 29.4766 10% of values less than 29.4766 10% of values less than 29.6775 50% of values less than 30.7879 90% of values less than 31.8862	50% of values less than 32.6623		
95% of values less than 36.22199% of values less than 38.7549Minimum 29.3778Maximum 41.5261Mean 32.945Std. Dev. 1.81163Variance 3.28201At 1000 years01% of values less than 29.269805% of values less than 29.476610% of values less than 29.677550% of values less than 30.787990% of values less than 31.8862	90% of values less than 35.3207		
99% of values less than 38.7549Maximum 41.5261Mean 32.945Std. Dev. 1.81163Variance 3.28201At 1000 years01% of values less than 29.269850% of values less than 29.476610% of values less than 29.476610% of values less than 29.677550% of values less than 30.787990% of values less than 31.886290% of values less than 31.8862	95% of values less than 36.221		
Minimum 29.3778Maximum 41.5261Mean 32.945Std. Dev. 1.81163Variance 3.28201At 1000 years01% of values less than 29.26985% of values less than 29.47665% of values less than 29.476610% of values less than 29.677550% of values less than 30.787990% of values less than 31.8862	99% of values less than 38.7549		
Mean 32.945Std. Dev. 1.81163Variance 3.28201At 1000 years01% of values less than 29.26985% of values less than 29.476605% of values less than 29.476610% of values less than 29.677550% of values less than 30.787990% of values less than 31.886290% of values less than 31.8862	Minimum 29.3778	Maximum 41.5261	
At 1000 years 01% of values less than 29.2698 05% of values less than 29.4766 10% of values less than 29.6775 50% of values less than 30.7879 90% of values less than 31.8862	Mean 32.945	Std. Dev. 1.81163	Variance 3.28201
01% of values less than 29.2698 05% of values less than 29.4766 10% of values less than 29.6775 50% of values less than 30.7879	At 1000 years		
05% of values less than 29.4766 10% of values less than 29.6775 50% of values less than 30.7879	01% of values less than 29.2698		
10% of values less than 29.6775 50% of values less than 30.7879	05% of values less than 29.4766		
50% of values less than 30.7879	10% of values less than 29.6775		
00% of values less than 31,8862	50% of values less than 30.7879		
30 /0 01 values iess than 31.0002	90% of values less than 31.8862		
95% of values less than 32.2645	95% of values less than 32.2645		
99% of values less than 33.7256	99% of values less than 33.7256		
Minimum 29.1526 Maximum 37.2722	Minimum 29.1526	Maximum 37.2722	
Mean 30.8398 Std. Dev. 0.967845 Variance 0.936723	Mean 30.8398	Std. Dev. 0.967845	Variance 0.936723

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Chloride at Phase Monitor Well [mg/l]

At infinity

01% of values less than 29.0168 05% of values less than 29.1145 10% of values less than 29.2317 50% of values less than 30.2306 90% of values less than 31.1907 95% of values less than 31.3204 99% of values less than 31.3864 Minimum 29.0001 Mean 30.2211

Maximum 31.3959 Std. Dev. 0.701395

Variance 0.491955

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Copper at Phase M	/onitor Well [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Woodcote Quarry Double Rainfall.sim

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Copper at Phase Monitor Well [mg/l] At infinity 01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Mercury at Phase Monitor	Vell [mg/l]	
At 30 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 100 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 300 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009
At 1000 years		
01% of values less than 5.17396E-005		
05% of values less than 6.03909E-005		
10% of values less than 7.02368E-005		
50% of values less than 0.000147989		
90% of values less than 0.000219549		
95% of values less than 0.000228954		
99% of values less than 0.000238243		
Minimum 5.01392E-005	Maximum 0.000239936	
Mean 0.000146638	Std. Dev. 5.41572E-005	Variance 2.933E-009

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Mean 0.000147782

Concentration of Mercury at Phase Monitor Well [mg/l]At infinity01% of values less than 5.25409E-00505% of values less than 6.12013E-00505% of values less than 6.12013E-00510% of values less than 7.07164E-00550% of values less than 0.00014965790% of values less than 0.00022039295% of values less than 0.00023046799% of values less than 0.00023949Maximum

Maximum 0.000245421 Std. Dev. 5.41889E-005

Variance 2.93644E-009

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Naphthalene at Ph	ase Monitor Well [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Naphthalene at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Toluene at Phase I	Nonitor Well [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Woodcote Quarry Double Rainfall.sim

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Toluene at Phase Monitor Well [mg/l] At infinity 01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase:	Phase	1
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Concentration of Zinc at Phase Monitor We	ll [mg/l]	
At 30 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.0405148		
50% of values less than 0.0903446		
90% of values less than 0.134053		
95% of values less than 0.138946		
99% of values less than 0.144073		
Minimum 0.0300386	Maximum 0.144825	
Mean 0.0883738	Std. Dev. 0.0337989	Variance 0.00114236
At 100 years		
01% of values less than 0.0314495		
05% of values less than 0.0351241		
10% of values less than 0.0405148		
50% of values less than 0.0903446		
90% of values less than 0.134053		
95% of values less than 0.138946		
99% of values less than 0.144073		
Minimum 0.0300386	Maximum 0.144825	
Mean 0.0883745	Std. Dev. 0.0337986	Variance 0.00114235
At 300 years		
At 300 years 01% of values less than 0.0314495		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751		
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386	Maximum 0.235531	
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0968549	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0968549 90% of values less than 0.144758	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0968549 90% of values less than 0.144758 95% of values less than 0.192187	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0419889 90% of values less than 0.144758 95% of values less than 0.142187 99% of values less than 0.192187 99% of values less than 0.261163	Maximum 0.235531 Std. Dev. 0.0348112	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0968549 90% of values less than 0.144758 95% of values less than 0.192187 99% of values less than 0.261163 Minimum 0.0300386	Maximum 0.235531 Std. Dev. 0.0348112 Maximum 0.314383	Variance 0.00121182
At 300 years 01% of values less than 0.0314495 05% of values less than 0.0353417 10% of values less than 0.0407746 50% of values less than 0.0911307 90% of values less than 0.134941 95% of values less than 0.139736 99% of values less than 0.144751 Minimum 0.0300386 Mean 0.0893235 At 1000 years 01% of values less than 0.0314497 05% of values less than 0.0370438 10% of values less than 0.0419889 50% of values less than 0.0419889 90% of values less than 0.144758 95% of values less than 0.144758 95% of values less than 0.142187 99% of values less than 0.261163 Minimum 0.0300386 Mean 0.10054	Maximum 0.235531 Std. Dev. 0.0348112 Maximum 0.314383 Std. Dev. 0.0482206	Variance 0.00121182

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Customer: Woodcote Quarry Landfill

Phase: Phase 1

Concentration of Zinc at Phase Monitor Well [mg/l]

At infinity

01% of values less than 0.0315442 05% of values less than 0.0351256 10% of values less than 0.0408061 50% of values less than 0.090357 90% of values less than 0.134478 95% of values less than 0.139322 99% of values less than 0.144075 Minimum 0.0300387 Mean 0.0885397

Maximum 0.146661 Std. Dev. 0.0338098

Variance 0.0011431

Approx. time to Peak Conc. Ammoniacal_N at Offsite Compliance Point [years] 01% of values less than 210 10% of values less than 210 10% of values less than 2050 99% of values less than 2050 99% of values less than 2050 99% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 05% of values less than 0 05% of values less than 0 90% of values less than 0 05% of values less than 0 96% of values less than 0 90% of values less than 0 96% of values less than 0 96% of values less than 0 99% of values less than 0 99% of values less than 0 96% of values less than 0 99% of values less than 0 99% of values less than 0 96% of values less than 0 99% of values less than 30 05% of values less than 39 04% of values less than 39 01% of values less than 39 05% of values less than 39 05% of values less than 39 05% of values less than 39 90% of values less than 43 99% of values less than 43 99% of values less than 43 95% of values le
01% of values less than 0 05% of values less than 210 10% of values less than 220 90% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 90% of values less than 0 99% of values less than 0 90% of values less than 1 90% of values less than 1 90% of values less than 3 90% of values less than 39 05% of values less than 39 05% of values less than 39 90% of values less than 43 99% of values less than 43 9
05% of values less than 210 10% of values less than 2050 90% of values less than 2050 99% of values less than 2050 99% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 50% of values less than 0 99% of values less than 3 90% of values less than 39 05% of values less than 39 05% of values less than 39 05% of values less than 39 90% of values less than 39 90% of values less than 43 95% of values less than 43 99% of values less than 44 Minimum 35 Maximum 86 Mean 40.6494 Variance 18.3399
10% of values less than 232 50% of values less than 2050 90% of values less than 2050 99% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 10% of values less than 0 05% of values less than 0 99% of values less than 0 90% of values less than 3 90% of values less than 39 05% of values less than 39 90% of values less than 43 99% of values less than 43 90% of values
50% of values less than 2050 90% of values less than 2050 99% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 05% of values less than 0 05% of values less than 0 99% of values less than 0 99% of values less than 0 90% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 Maximum 0 Maximum 0 Variance 0 Approx. time to Peak Conc. Chloride at Offsite Compliance Point [years] 01% of values less than 39 05% of values less than 39 01% of values less than 39 10% of values less than 39 10% of values less than 39 10% of values less than 39 05% of values less than 39 90% of values less than 39 90% of values less than 39 10% of values less than 39 10% of values less than 43 99% of values less than 43 99% of values less than 43 90% of values less than 43 99% of values less than
90% of values less than 2050 95% of values less than 2050 Minimum 0 Maximum 2050 Mean 1230 Std. Dev. 903.292 Variance 815937 Approx. time to Peak Conc. Cadmium at Offsite Compliance Point [years] 01% of values less than 0 05% of values less than 0 05% of values less than 0 05% of values less than 0 50% of values less than 0 99% of values less than 0 99% of values less than 0 50% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 50% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 0 50% of values less than 0 99% of values less than 0 99% of values less than 0 99% of values less than 30 50% of values less than 39 05% of values less than 39 90% of values less than 39 05% of values less than 39 90% of values less than 39 90% of values less than 39 90% of values less than 39 99% of values less than 39 90% of values less than 34 99% of values less than 39 90% of values less than 34 99% of values less than 34 39% of values less than 34 39% of values less than 34 39% of values less than 34 99% of values less than 43
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Mean 0Std. Dev. 0Variance 0Approx. time to Peak Conc. Chloride at Offsite Compliance Point [years]01% of values less than 3910% of values less than 3905% of values less than 3950% of values less than 3910% of values less than 3950% of values less than 3990% of values less than 4310% of values less than 4395% of values less than 4395% of values less than 6410% of values less than 64Minimum 35Maximum 8610% Dev. 4.28251Approx. time to Peak Conc. Copper at Offsite Compliance Point [years]10% of values less
Approx. time to Peak Conc. Chloride at Offsite Compliance Point [years] 01% of values less than 39 05% of values less than 39 10% of values less than 39 50% of values less than 39 90% of values less than 43 95% of values less than 43 95% of values less than 43 95% of values less than 64 Minimum 35 Maximum 86 Mean 40.6494 Std. Dev. 4.28251 Variance 18.3399
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90% of values less than 43 95% of values less than 43 99% of values less than 64 Minimum 35 Maximum 86 Mean 40.6494 Std. Dev. 4.28251 Variance 18.3399
95% of values less than 43 99% of values less than 64 Minimum 35 Maximum 86 Mean 40.6494 Std. Dev. 4.28251 Variance 18.3399 Approx. time to Peak Conc. Copper at Offsite Compliance Point [years]
99% of values less than 64 Minimum 35 Maximum 86 Mean 40.6494 Std. Dev. 4.28251 Variance 18.3399 Approx. time to Peak Conc. Copper at Offsite Compliance Point [years] Variance 18.3399
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Mean 40.6494 Std. Dev. 4.28251 Variance 18.3399 Approx. time to Peak Conc. Copper at Offsite Compliance Point [years] Variance 18.3399
Approx. time to Peak Conc. Copper at Offsite Compliance Point [years]
01% of values less than 0
05% of values less than 0
10% of values less than 0
50% of values less than 0
90% of values less than 0
95% of values less than 0
99% of values less than 0
Minimum 0 Maximum 0
Mean 0 Std. Dev. 0 Variance 0

Approx time to Pook Cone Moreury at Offs	ita Camplianca Point [vaars]	
Approx. time to Peak Conc. Mercury at Ons	ne compliance rom [years]	
01% of values less than 0		
50% of values less than 20000		
90% of values less than 20000		
95% of values less than 20000		
99% of values less than 20000		
Minimum 0	Maximum 20000	
Mean 12647.4	Std. Dev. 9648.03	Variance 9.30845E+007
Approx. time to Peak Conc. Naphthalene at	Offsite Compliance Point [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Mean o		Vananoe 0
Approx. time to Peak Conc. Toluene at Offs	ite Compliance Point [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Zinc at Offsite C	Compliance Point [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 1024		
50% of values less than 6094		
90% of values less than 20000		
95% of values less than 20000		
99% of values less than 20000		
Minimum 0	Maximum 20000	
Mean 8238	Std. Dev. 7007.71	Variance 4.9108E+007

Project: Woodcote Quarry Landfill Project Number: Risk 0060

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Approx. time to Peak Conc. Ammoniac	al_N at Phase Monitor Well [years]	
01% of values less than 100		
05% of values less than 100		
10% of values less than 100		
50% of values less than 105		
90% of values less than 141		
95% of values less than 156		
99% of values less than 232		
Minimum 95	Maximum 1024	
Mean 119.444	Std. Dev. 38.6847	Variance 1496.51
Approx. time to Peak Conc. Cadmium	at Phase Monitor Well [vears]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Chloride a	t Phase Monitor Well [years]	
01% of values less than 21		
05% of values less than 21		
10% of values less than 21		
50% of values less than 21		
90% of values less than 21		
95% of values less than 21		
99% of values less than 26		
Minimum 21	Maximum 43	
Mean 21.1029	Std. Dev. 0.957289	Variance 0.916402
Approx. time to Peak Conc. Copper at	Phase Monitor Well [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

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Approx. time to Peak Conc. Mercury at Phas	se Monitor Well [years]	
01% of values less than 0		
05% of values less than 20000		
10% of values less than 20000		
50% of values less than 20000		
90% of values less than 20000		
95% of values less than 20000		
99% of values less than 20000		
Minimum 0	Maximum 20000	
Mean 19640.4	Std. Dev. 2659.05	Variance 7.07053E+006
Approx. time to Peak Conc. Naphthalene at	Phase Monitor Well [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Toluene at Phas	se Monitor Well [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Zinc at Phase M	lonitor Well [years]	
01% of values less than 761		
05% of values less than 1024		
10% of values less than 1131		
50% of values less than 1856		
90% of values less than 9056		
95% of values less than 11039		
99% of values less than 18114		
99% of values less than 18114 Minimum 565	Maximum 20000	

Project: Woodcote Quarry Landfill Project Number: Risk 0060

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Phase: Phase 1

Approx. time to Peak Conc. Ammoniacal_N	at Base of Unsaturated Zone [years]	
01% of values less than 78		
05% of values less than 86		
10% of values less than 86		
50% of values less than 95		
90% of values less than 116		
95% of values less than 141		
99% of values less than 210		
Minimum 78	Maximum 1000	
Mean 99.0559	Std. Dev. 36.7447	Variance 1350.17
Approx. time to Peak Conc. Cadmium at Ba	se of Unsaturated Zone [years]	
01% of values less than 4999		
05% of values less than 6094		
10% of values less than 6728		
50% of values less than 9999		
90% of values less than 13458		
95% of values less than 16406		
99% of values less than 20000		
Minimum 4527	Maximum 20000	
Mean 10029	Std. Dev. 3035.3	Variance 9.21307E+006
Approx. time to Peak Conc. Chloride at Bas	e of Unsaturated Zone [years]	
01% of values less than 19		
05% of values less than 19		
10% of values less than 19		
50% of values less than 19		
90% of values less than 19		
95% of values less than 19		
99% of values less than 19		
Minimum 19	Maximum 39	
Mean 19.044	Std. Dev. 0.723924	Variance 0.524066
Approx. time to Peak Conc. Copper at Base	of Unsaturated Zone [years]	
01% of values less than 4527		
05% of values less than 5519		
10% of values less than 6728		
50% of values less than 9999		
90% of values less than 13458		
95% of values less than 16406		
99% of values less than 20000		
Minimum 1681	Maximum 20000	
Mean 10158	Std. Dev. 3306.44	Variance 1.09326E+007
Approx. time to Peak Conc. Mercury at Base	e of Unsaturated Zone [years]	
01% of values less than 0		
05% of values less than 20000		
10% of values less than 20000		
50% of values less than 20000		
90% of values less than 20000		

95% of values less than 20000

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Approx. time to Peak Conc. Mercury at Bas	e of Unsaturated Zone [years]	
01% of values less than 0		
05% of values less than 20000		
10% of values less than 20000		
50% of values less than 20000		
90% of values less than 20000		
95% of values less than 20000		
99% of values less than 20000		
Minimum 0	Maximum 20000	
Mean 19740.3	Std. Dev. 2265.49	Variance 5.13247E+006
Approx. time to Peak Conc. Naphthalene at	Base of Unsaturated Zone [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Toluene at Bas	e of Unsaturated Zone [years]	
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
Approx. time to Peak Conc. Zinc at Base of	Unsaturated Zone [years]	
01% of values less than 380		
05% of values less than 420		
10% of values less than 464		
50% of values less than 1681		
90% of values less than 7428		
95% of values less than 9999		
99% of values less than 16406		
Minimum 380	Maximum 20000	
Mean 3174.02	Std. Dev. 3359.37	Variance 1.12854E+007

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Customer: Woodcote Quarry Landfill

Phase: P	hase 1
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Concentration of Ammoniacal_N at base of	Unsaturated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 1.41595E-017		
10% of values less than 8.83537E-014		
50% of values less than 5.84556E-006		
90% of values less than 0.00162354		
95% of values less than 0.00314999		
99% of values less than 0.00619712		
Minimum 0	Maximum 0.0123638	
Mean 0.00052534	Std. Dev. 0.00139918	Variance 1.9577E-006
At 100 years		
01% of values less than 4.82592E-008		
05% of values less than 0.000237757		
10% of values less than 0.00065066		
50% of values less than 0.00705781		
90% of values less than 0.0221938		
95% of values less than 0.0284652		
99% of values less than 0.039983		
Minimum 0	Maximum 0.0590115	
Mean 0.00954336	Std. Dev. 0.00950092	Variance 9.02675E-005
At 300 years		
01% of values less than 1.26633E-006		
05% of values less than 0.000243393		
10% of values less than 0.000560439		
50% of values less than 0.00564401		
90% of values less than 0.0178641		
95% of values less than 0.0229776		
99% of values less than 0.0322316		
Minimum 1.15781E-014	Maximum 0.0469149	
Mean 0.00767058	Std. Dev. 0.00760954	Variance 5.79052E-005
At 1000 years		
01% of values less than 1.19459E-006		
05% of values less than 0.000198265		
10% of values less than 0.000460759		
50% of values less than 0.00416047		
90% of values less than 0.0134372		
95% of values less than 0.0168313		
99% of values less than 0.0246939		
Minimum 1.23317E-014	Maximum 0.0394514	
Mean 0.00576276	Std. Dev. 0.00574437	Variance 3.29978E-005

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

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Customer: Woodcote Quarry Landfill

Phase: Phase 1

Concentration of Ammoniacal_N at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 3.4453E-007 05% of values less than 2.00847E-005 10% of values less than 4.95146E-005 50% of values less than 0.000414349 90% of values less than 0.00131566 95% of values less than 0.00170386 99% of values less than 0.00297116 Minimum 1.22996E-014 Mean 0.000584245

Maximum 0.0059633 Std. Dev. 0.000609822

Variance 3.71883E-007

Project: Woodcote Quarry Landfill Project Number: Risk 0060

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Concentration of Cadmium at base of Unsa	aturated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 2.19954E-018		
95% of values less than 9.61407E-014		
99% of values less than 5.86682E-009		
Minimum 0	Maximum 2.6767E-006	
Mean 4.42708E-009	Std. Dev. 8.94592E-008	Variance 8.00296E-015

Project: Woodcote Quarry Landfill Project Number: Risk 0060

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Phase: Phase 1

Concentration of Cadmium at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 2.02875E-005 05% of values less than 2.65823E-005 10% of values less than 3.39939E-005 50% of values less than 9.67575E-005 90% of values less than 0.000315266 95% of values less than 0.000542475 99% of values less than 0.00124179 Minimum 6.85755E-015 Mean 0.00016493

Maximum 0.00239835 Std. Dev. 0.000234989

Variance 5.522E-008

Project: Woodcote Quarry Landfill Project Number: Risk 0060

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Concentration of Chloride at base of Unsatu	rated Zone [mg/l]	
At 30 years		
01% of values less than 2.13592		
05% of values less than 3.27274		
10% of values less than 4.57092		
50% of values less than 11.8543		
90% of values less than 24.9265		
95% of values less than 28.8916		
99% of values less than 37.3181		
Minimum 0.644461	Maximum 60.4285	
Mean 13.4975	Std. Dev. 8.27073	Variance 68.4049
At 100 years		
01% of values less than 1.71205		
05% of values less than 2.63042		
10% of values less than 3.60146		
50% of values less than 9.2259		
90% of values less than 18.9268		
95% of values less than 22.2755		
99% of values less than 28.3056		
Minimum 0.487757	Maximum 41.3558	
Mean 10.3875	Std. Dev. 6.08877	Variance 37.0731
At 300 years		
01% of values less than 0.96304		
05% of values less than 1.55576		
10% of values less than 2.08572		
50% of values less than 5.34718		
90% of values less than 11.2313		
95% of values less than 13.4049		
99% of values less than 18.9321		
Minimum 0.260987	Maximum 25.5293	
Mean 6.15858	Std. Dev. 3.79024	Variance 14.3659
At 1000 years		
01% of values less than 0.0935315		
05% of values less than 0.199032		
10% of values less than 0.26654		
50% of values less than 0.826367		
90% of values less than 2.41096		
95% of values less than 3.63755		
99% of values less than 7.30948		
Minimum 0.024675	Maximum 16.6415	
Mean 1.24018	Std. Dev. 1.48121	Variance 2.19399

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Chloride at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 2.40278E-009 05% of values less than 3.6963E-009 10% of values less than 5.18704E-009 50% of values less than 1.44018E-008 90% of values less than 3.23322E-008 95% of values less than 4.58856E-008 99% of values less than 2.0488E-005 Minimum 7.05788E-010 Mean 9.35112E-005

Maximum 0.0400647 Std. Dev. 0.00169322

Variance 2.86698E-006

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Copper at base of Unsatu	ırated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 8.34262E-016	
Mean 8.97044E-019	Std. Dev. 2.64432E-017	Variance 6.99243E-034
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.61329E-017		
95% of values less than 1.78318E-012		
99% of values less than 1.00369E-006		
Minimum 0	Maximum 0.000486198	
Mean 1.00345E-006	Std. Dev. 1.84188E-005	Variance 3.39252E-010

Woodcote Quarry Double Rainfall.sim

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Copper at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 6.58507E-005 05% of values less than 8.10999E-005 10% of values less than 9.5566E-005 50% of values less than 0.0029354 90% of values less than 0.0021004 95% of values less than 0.00690007 99% of values less than 0.0176511 Minimum 3.12548E-016 Mean 0.00127885

Maximum 0.0375771 Std. Dev. 0.00334323

Variance 1.11772E-005

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Mercury at base of U	Insaturated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill

Project Number: Risk 0060

Write Project Notes Here

Customer: Woodcote Quarry Landfill

Phase: Phase 1

Concentration of Mercury at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0 05% of values less than 1.95148E-010 10% of values less than 2.45684E-008 50% of values less than 2.3347E-006 90% of values less than 1.31796E-005 95% of values less than 1.63234E-005 99% of values less than 2.22364E-005 Minimum 0 Mean 4.59493E-006

Maximum 3.27064E-005 Std. Dev. 5.58009E-006

Variance 3.11374E-011

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Naphthalene at base	of Unsaturated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Naphthalene at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Toluene at base of Un	saturated Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 0		
Minimum 0	Maximum 0	
Mean 0	Std. Dev. 0	Variance 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Toluene at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 0 05% of values less than 0 10% of values less than 0 50% of values less than 0 90% of values less than 0 95% of values less than 0 99% of values less than 0 Minimum 0 Mean 0

Maximum 0 Std. Dev. 0

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Concentration of Zinc at base of Unsaturate	ed Zone [mg/l]	
At 30 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0		
95% of values less than 0		
99% of values less than 3.3816E-014		
Minimum 0	Maximum 5.15039E-009	
Mean 6.29146E-012	Std. Dev. 1.65968E-010	Variance 2.75454E-020
At 100 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 3.73714E-008		
95% of values less than 7.56972E-005		
99% of values less than 0.0131968		
Minimum 0	Maximum 0.0418703	
Mean 0.000382725	Std. Dev. 0.002756	Variance 7.59555E-006
At 300 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0		
90% of values less than 0.180976		
95% of values less than 0.338588		
99% of values less than 0.531544		
Minimum 0	Maximum 0.784822	
Mean 0.0433277	Std. Dev. 0.116513	Variance 0.0135754
At 1000 years		
01% of values less than 0		
05% of values less than 0		
10% of values less than 0		
50% of values less than 0.000425321		
90% of values less than 0.340247		
95% of values less than 0.402553		
99% of values less than 0.499892		
Minimum 0	Maximum 0.610817	
Mean 0.111851	Std. Dev. 0.14681	Variance 0.0215533

Project: Woodcote Quarry Landfill Project Number: Risk 0060

Write Project Notes Here

Phase: Phase 1

Concentration of Zinc at base of Unsaturated Zone [mg/l]

At infinity

01% of values less than 6.94026E-009 05% of values less than 8.78411E-009 10% of values less than 1.03676E-008 50% of values less than 1.80157E-008 90% of values less than 1.4543E-006 95% of values less than 3.20623E-005 99% of values less than 0.004218 Minimum 5.29082E-009 Mean 0.000140691

Maximum 0.0216313 Std. Dev. 0.0011879

Variance 1.41111E-006