

Concentration of Ammoniacal_N in groundwater [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 0.06

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. 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

Concentration of Ammoniacal_N in groundwater [mg/l]

At infinity

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. 7.10116E-009

Variance -5.04265E-017

Concentration of Cadmium in groundwater [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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Chloride in groundwater [mg/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

01% of values less than 30.5644

05% of values less than 31.3316

10% of values less than 31.833

50% of values less than 34.5411

90% of values less than 39.3198

95% of values less than 41.3425

99% of values less than 46.243

Minimum 29.6726

Maximum 52.3139

Mean 35.3096

Std. Dev. 3.25214

Variance 10.5764

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

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

Maximum 31.3959

Mean 30.2211

Std. Dev. 0.7014

Variance 0.491961

Concentration of Copper in groundwater [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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Mercury in groundwater [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

Concentration of Mercury in groundwater [mg/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

Concentration of Naphthalene in groundwater [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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Toluene in groundwater [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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Concentration of Zinc in groundwater [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 0.0883738

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

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

Maximum 0.16631

Mean 0.0919938

Std. Dev. 0.0344176

Variance 0.00118457

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

c (kg/l): 0.59

Non-Volatile

m (kg/l): 0

Cadmium

c (kg/l): 0.1589

Non-Volatile

m (kg/l): 0.0823

Chloride

c (kg/l): 0.2919

Non-Volatile

m (kg/l): 0.0298

Copper

c (kg/l): -0.0488

Non-Volatile

m (kg/l): 0.0664

Mercury

c (kg/l): 0.1643

Non-Volatile

m (kg/l): 0.0767

Naphthalene

Half life (years): 10

Volatile

Toluene

Half life (years): 10

Volatile

Zinc

c (kg/l): 0.0561

Non-Volatile

m (kg/l): 0.0403

Contaminant Half-lives (years)

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)
Zinc	SINGLE(1e+009)

Aquifer Pathway:

Ammoniacal_N	SINGLE(6)
Cadmium	SINGLE(6e-005)
Chloride	SINGLE(1e+009)
Copper	LOGTRIANGULAR(0.009,0.02125,0.076)
Mercury	SINGLE(1e+009)
Naphthalene	SINGLE(0.387)
Toluene	UNIFORM(0.1,0.2)
Zinc	SINGLE(1e+009)

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	SINGLE(0.06)
Chloride	UNIFORM(29,31.4)
Mercury	UNIFORM(5e-005,0.00024)
Zinc	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) <i>Data are spot measurements of Leachate Quality</i>
Cadmium	LOGTRIANGULAR(0.0001,0.0016,0.004) <i>Substance to be treated as List 1</i>
Chloride	LOGTRIANGULAR(0.01,19.1,160) <i>Data are spot measurements of Leachate Quality</i>
Copper	LOGTRIANGULAR(0.009,0.016,0.076) <i>Data are spot measurements of Leachate Quality</i>
Mercury	LOGTRIANGULAR(1e-005,4.5e-005,0.0001) <i>Substance to be treated as List 1</i>
Naphthalene	LOGTRIANGULAR(0.01,0.1,0.2) <i>Substance to be treated as List 1</i>
Toluene	LOGTRIANGULAR(0.01,0.05,0.15) <i>Substance to be treated as List 1</i>
Zinc	LOGTRIANGULAR(0.01,0.023,0.4) <i>Data are spot measurements of Leachate Quality</i>

Justification for Species Concentration in Leachate

Based on Half life degradation rates as per EA report on ammonia and Toluene, Naphthalene

Drainage Information

Fixed Head.

Head on EBS is given as (m): SINGLE(1)

Justification for Specified Head

1metre limit assumed above geological barrier

Barrier Information

There is a single clay barrier

Justification for Engineered Barrier Type

1 metre geological barrier

Design thickness of clay (m):	SINGLE(1)
Density of clay (kg/l):	SINGLE(1.9)
Pathway moisture content (fraction):	UNIFORM(0.19,0.2)

Justification for Clay: Liner Thickness

CQA Design Specification

Hydraulic conductivity of liner (m/s):	TRIANGULAR(1e-009,1e-008,1e-007)
Pathway longitudinal dispersivity (m):	SINGLE(0.1)

Justification for Clay: Hydraulics Properties

Source Evaluation Testing on adjoining phase

Retardation parameters for clay liner

Uncertainty in Kd (l/kg):	
Ammoniacal_N	UNIFORM(7.3,8.5)
Cadmium	SINGLE(222.2)
Chloride	SINGLE(0)
Copper	SINGLE(126.8)
Mercury	SINGLE(3835.5)
Naphthalene	LOGTRIANGULAR(488,1102,2309)
Toluene	LOGTRIANGULAR(57,130,272)
Zinc	SINGLE(20.7)

Justification for Liner Kd Values by Species

EA 2003 and USEPA1999

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)
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Justification for Unsat Zone Hydraulics Properties

Site investigations Appendices 1-3

Pathway longitudinal dispersivity (m):	UNIFORM(0.05,0.13)
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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):	UNIFORM(1000,1200)
Pathway width (m):	SINGLE(200)

pathway parameters

No Vertical Pathway

Sherwood Sandstone pathway parameters*Modelled as aquifer pathway.*

Mixing zone (m): SINGLE(50)

Justification for Aquifer Geometry

HRA 2

Pathway regional gradient (-): SINGLE(0.0143)

Pathway hydraulic conductivity values (m/s): UNIFORM(4.6e-006,8e-006)

Pathway porosity (fraction): SINGLE(0.2)

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)

Phase: Phase 1*Concentration of Ammoniacal_N at Phase 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

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 0.060002

50% of values less than 0.0600227

90% of values less than 0.0601115

95% of values less than 0.0601478

99% of values less than 0.0602595

Minimum 0.06

Maximum 0.0605858

Mean 0.0600427

Std. Dev. 5.57112E-005

Variance 3.10373E-009

Phase: Phase 1*Concentration of Cadmium at Phase 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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Chloride at Phase Monitor Well [mg/l]*

At 30 years

01% of values less than 31.8406

05% of values less than 33.395

10% of values less than 34.5039

50% of values less than 41.1595

90% of values less than 53.6667

95% of values less than 58.201

99% of values less than 67.7218

Minimum 30.382

Maximum 84.5598

Mean 43.0424

Std. Dev. 8.02598

Variance 64.4164

At 100 years

01% of values less than 30.4391

05% of values less than 31.0918

10% of values less than 31.6114

50% of values less than 34.1041

90% of values less than 38.3683

95% of values less than 39.7944

99% of values less than 43.0066

Minimum 29.6296

Maximum 48.1178

Mean 34.6311

Std. Dev. 2.71155

Variance 7.35253

At 300 years

01% of values less than 29.9979

05% of values less than 30.5172

10% of values less than 30.8634

50% of values less than 32.6623

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 29.6775

50% of values less than 30.7879

90% of values less than 31.8862

95% of values less than 32.2645

99% of values less than 33.7256

Minimum 29.1526

Maximum 37.2722

Mean 30.8398

Std. Dev. 0.967845

Variance 0.936723

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

Maximum 31.3959

Mean 30.2211

Std. Dev. 0.701395

Variance 0.491955

Phase: Phase 1*Concentration of Copper at Phase 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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Mercury at Phase Monitor Well [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

Phase: Phase 1

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

At infinity

01% of values less than 5.25409E-005

05% of values less than 6.12013E-005

10% of values less than 7.07164E-005

50% of values less than 0.000149657

90% of values less than 0.000220392

95% of values less than 0.000230467

99% of values less than 0.00023949

Minimum 5.0145E-005

Maximum 0.000245421

Mean 0.000147782

Std. Dev. 5.41889E-005

Variance 2.93644E-009

Phase: Phase 1*Concentration of Naphthalene at Phase 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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Toluene at Phase 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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Zinc at Phase Monitor Well [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

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

Mean 0.0893235

Std. Dev. 0.0348112

Variance 0.00121182

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 0.314383

Mean 0.10054

Std. Dev. 0.0482206

Variance 0.00232523

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

Maximum 0.146661

Mean 0.0885397

Std. Dev. 0.0338098

Variance 0.0011431

Approx. time to Peak Conc. Ammoniacal_N at Offsite Compliance Point [years]

01% of values less than 0

05% of values less than 210

10% of values less than 232

50% of values less than 2050

90% of values less than 2050

95% 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

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 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

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]

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. Mercury 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 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

Approx. time to Peak Conc. Toluene 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 Peak Conc. Zinc at Offsite 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

Phase: Phase 1*Approx. time to Peak Conc. Ammoniacal_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 [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. Chloride at 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

Phase: Phase 1*Approx. time to Peak Conc. Mercury at Phase 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 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. Zinc at Phase Monitor 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

Minimum 565

Maximum 20000

Mean 4010.6

Std. Dev. 3675.84

Variance 1.35118E+007

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 Base 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 Base 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 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

Phase: Phase 1*Approx. time to Peak Conc. Mercury at Base 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 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. 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

Phase: Phase 1*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

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

Maximum 0.0059633

Mean 0.000584245

Std. Dev. 0.000609822

Variance 3.71883E-007

Phase: Phase 1*Concentration of Cadmium 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 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

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

Maximum 0.00239835

Mean 0.00016493

Std. Dev. 0.000234989

Variance 5.522E-008

Phase: Phase 1*Concentration of Chloride at base of Unsaturated 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

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

Maximum 0.0400647

Mean 9.35112E-005

Std. Dev. 0.00169322

Variance 2.86698E-006

Phase: Phase 1*Concentration of Copper 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 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

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 0.00029354

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

Maximum 0.0375771

Mean 0.00127885

Std. Dev. 0.00334323

Variance 1.11772E-005

Phase: Phase 1*Concentration of Mercury 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

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

Maximum 3.27064E-005

Mean 4.59493E-006

Std. Dev. 5.58009E-006

Variance 3.11374E-011

Phase: Phase 1*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

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

95% of values less than 0

99% of values less than 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Toluene 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

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

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

Phase: Phase 1*Concentration of Zinc 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 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

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

Maximum 0.0216313

Mean 0.000140691

Std. Dev. 0.0011879

Variance 1.41111E-006