

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. 4.47089E-009

Variance -1.99889E-017

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. 6.21409E-009

Variance -3.86149E-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. 6.97204E-009

Variance -4.86094E-017

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. 7.13308E-009

Variance -5.08808E-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 32.0807

05% of values less than 33.4244

10% of values less than 34.4767

50% of values less than 41.8104

90% of values less than 54.0614

95% of values less than 58.5243

99% of values less than 65.9079

Minimum 29.0828

Maximum 81.5103

Mean 43.3127

Std. Dev. 7.85569

Variance 61.7119

At 100 years

01% of values less than 31.2343

05% of values less than 32.4264

10% of values less than 33.2345

50% of values less than 38.0953

90% of values less than 47.2917

95% of values less than 51.035

99% of values less than 59.9307

Minimum 30.0596

Maximum 76.1852

Mean 39.5921

Std. Dev. 6.1038

Variance 37.2564

At 300 years

01% of values less than 30.5775

05% of values less than 31.358

10% of values less than 31.8487

50% of values less than 34.589

90% of values less than 39.454

95% of values less than 41.4713

99% of values less than 46.4405

Minimum 29.6844

Maximum 52.5923

Mean 35.3812

Std. Dev. 3.29632

Variance 10.8657

At 1000 years

01% of values less than 29.3611

05% of values less than 29.6697

10% of values less than 29.8912

50% of values less than 31.1443

90% of values less than 32.5775

95% of values less than 33.5844

99% of values less than 36.1311

Minimum 29.1694

Maximum 41.2634

Mean 31.29

Std. Dev. 1.33041

Variance 1.77

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. 0.701399

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 6.0391E-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 0.0405148

50% of values less than 0.0905411

90% of values less than 0.134117

95% of values less than 0.138999

99% of values less than 0.144137

Minimum 0.0300386

Maximum 0.153233

Mean 0.0884936

Std. Dev. 0.0338681

Variance 0.00114705

Concentration of Zinc in groundwater [mg/l]

At infinity

01% of values less than 0.031646

05% of values less than 0.0368263

10% of values less than 0.0418801

50% of values less than 0.0922989

90% of values less than 0.135275

95% of values less than 0.139981

99% of values less than 0.144751

Minimum 0.0300387

Maximum 0.159548

Mean 0.0896919

Std. Dev. 0.0337199

Variance 0.00113703

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(160)
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

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(0.5,3,5)
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

New unsaturated zone

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 0.06

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. 0

Variance 0

At 100 years

01% of values less than 0.0600001

05% of values less than 0.0600002

10% of values less than 0.0600003

50% of values less than 0.0600018

90% of values less than 0.0600126

95% of values less than 0.0600194

99% of values less than 0.060038

Minimum 0.06

Maximum 0.0601265

Mean 0.0600046

Std. Dev. 8.39261E-006

Variance 7.0436E-011

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 0.0600027

99% of values less than 0.0600221

Minimum 0.06

Maximum 0.0600365

Mean 0.0600006

Std. Dev. 3.38593E-006

Variance 1.14645E-011

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 0.0600082

Minimum 0.06

Maximum 0.0600252

Mean 0.0600002

Std. Dev. 1.74776E-006

Variance 3.05468E-012

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 0.06

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 0.060002

Minimum 0.06

Maximum 0.0600115

Mean 0.0600001

Std. Dev. 5.71594E-007

Variance 3.2672E-013

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 31.1987

05% of values less than 32.1289

10% of values less than 32.9523

50% of values less than 37.4445

90% of values less than 45.4778

95% of values less than 48.5022

99% of values less than 54.4949

Minimum 29.9749

Maximum 65.3258

Mean 38.531

Std. Dev. 5.118

Variance 26.194

At 100 years

01% of values less than 30.4562

05% of values less than 31.1124

10% of values less than 31.6422

50% of values less than 34.1626

90% of values less than 38.4655

95% of values less than 39.9351

99% of values less than 43.1619

Minimum 29.6342

Maximum 48.3464

Mean 34.695

Std. Dev. 2.75002

Variance 7.56263

At 300 years

01% of values less than 30.0128

05% of values less than 30.5331

10% of values less than 30.8861

50% of values less than 32.6881

90% of values less than 35.372

95% of values less than 36.3119

99% of values less than 38.8445

Minimum 29.3831

Maximum 41.6722

Mean 32.9831

Std. Dev. 1.8332

Variance 3.36062

At 1000 years

01% of values less than 29.2725

05% of values less than 29.4803

10% of values less than 29.6806

50% of values less than 30.7899

90% of values less than 31.9043

95% of values less than 32.312

99% of values less than 33.7582

Minimum 29.153

Maximum 37.3428

Mean 30.8477

Std. Dev. 0.97383

Variance 0.948346

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 5.42434E-005

05% of values less than 6.29393E-005

10% of values less than 7.25237E-005

50% of values less than 0.000151049

90% of values less than 0.000222038

95% of values less than 0.000232024

99% of values less than 0.00024265

Minimum 5.0145E-005

Maximum 0.00024626

Mean 0.000150036

Std. Dev. 5.42484E-005

Variance 2.94289E-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 0.0883738

Std. Dev. 0.0337989

Variance 0.00114236

At 300 years

01% of values less than 0.0314495

05% of values less than 0.0353106

10% of values less than 0.0407675

50% of values less than 0.0905411

90% of values less than 0.134117

95% of values less than 0.139321

99% of values less than 0.144105

Minimum 0.0300386

Maximum 0.146497

Mean 0.088482

Std. Dev. 0.0338215

Variance 0.00114389

At 1000 years

01% of values less than 0.0314512

05% of values less than 0.0365666

10% of values less than 0.0419889

50% of values less than 0.0955368

90% of values less than 0.140758

95% of values less than 0.150457

99% of values less than 0.185533

Minimum 0.0300386

Maximum 0.2132

Mean 0.0947081

Std. Dev. 0.037683

Variance 0.00142001

Phase: Phase 1

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

At infinity

01% of values less than 0.0314805

05% of values less than 0.0351251

10% of values less than 0.0408061

50% of values less than 0.0903446

90% of values less than 0.134471

95% of values less than 0.138946

99% of values less than 0.144074

Minimum 0.0300386

Maximum 0.145848

Mean 0.088461

Std. Dev. 0.03379

Variance 0.00114177

Approx. time to Peak Conc. Ammoniacal_N 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 190

90% of values less than 232

95% of values less than 282

99% of values less than 2050

Minimum 0

Maximum 2050

Mean 243.664

Std. Dev. 404.127

Variance 163319

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 43

05% of values less than 43

10% of values less than 43

50% of values less than 47

90% of values less than 52

95% of values less than 52

99% of values less than 52

Minimum 43

Maximum 70

Mean 48.0559

Std. Dev. 3.10497

Variance 9.64087

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 17682.3

Std. Dev. 6404.92

Variance 4.1023E+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 4100

90% of values less than 20000

95% of values less than 20000

99% of values less than 20000

Minimum 0

Maximum 20000

Mean 6772.39

Std. Dev. 6493.27

Variance 4.21625E+007

Phase: Phase 1*Approx. time to Peak Conc. Ammoniacal_N at Phase Monitor Well [years]*

01% of values less than 70

05% of values less than 70

10% of values less than 70

50% of values less than 78

90% of values less than 116

95% of values less than 128

99% of values less than 190

Minimum 64

Maximum 282

Mean 86.01

Std. Dev. 23.7919

Variance 566.056

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 21

Minimum 21

Maximum 30

Mean 21.015

Std. Dev. 0.30459

Variance 0.0927752

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 20000

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 19920.1

Std. Dev. 1262.38

Variance 1.59361E+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 840

05% of values less than 1024

10% of values less than 1131

50% of values less than 1856

90% of values less than 5519

95% of values less than 6728

99% of values less than 11039

Minimum 761

Maximum 20000

Mean 2770.37

Std. Dev. 2293.79

Variance 5.26149E+006

Phase: Phase 1*Approx. time to Peak Conc. Ammoniacal_N at Base of Unsaturated Zone [years]*

01% of values less than 57

05% of values less than 57

10% of values less than 57

50% of values less than 64

90% of values less than 95

95% of values less than 116

99% of values less than 172

Minimum 52

Maximum 256

Mean 70.1199

Std. Dev. 21.3249

Variance 454.752

Approx. time to Peak Conc. Cadmium at Base of Unsaturated Zone [years]

01% of values less than 4999

05% of values less than 5519

10% of values less than 6094

50% of values less than 7428

90% of values less than 9056

95% of values less than 11039

99% of values less than 18114

Minimum 4100

Maximum 20000

Mean 7758.68

Std. Dev. 2105.55

Variance 4.43335E+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 26

Mean 19.007

Std. Dev. 0.221249

Variance 0.048951

Approx. time to Peak Conc. Copper at Base of Unsaturated Zone [years]

01% of values less than 3714

05% of values less than 4527

10% of values less than 4527

50% of values less than 6094

90% of values less than 8202

95% of values less than 9999

99% of values less than 18114

Minimum 3363

Maximum 20000

Mean 6780.29

Std. Dev. 2286.67

Variance 5.22886E+006

Approx. time to Peak Conc. Mercury at Base of Unsaturated Zone [years]

01% of values less than 20000

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 20000

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 19980

Std. Dev. 632.14

Variance 399600

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 624

05% of values less than 624

10% of values less than 624

50% of values less than 1379

90% of values less than 4527

95% of values less than 5519

99% of values less than 9056

Minimum 624

Maximum 20000

Mean 1942.1

Std. Dev. 1966.56

Variance 3.86735E+006

Phase: Phase 1*Concentration of Ammoniacal_N at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 1.36617E-017

05% of values less than 4.50987E-011

10% of values less than 9.41742E-010

50% of values less than 7.69847E-007

90% of values less than 5.90394E-006

95% of values less than 9.10342E-006

99% of values less than 1.35819E-005

Minimum 0

Maximum 2.29631E-005

Mean 2.08343E-006

Std. Dev. 3.07835E-006

Variance 9.47622E-012

At 100 years

01% of values less than 5.01685E-010

05% of values less than 1.06827E-009

10% of values less than 1.21766E-009

50% of values less than 3.74924E-009

90% of values less than 0.000182035

95% of values less than 0.000440697

99% of values less than 0.000824495

Minimum 0

Maximum 0.00229907

Mean 5.82064E-005

Std. Dev. 0.000192357

Variance 3.70011E-008

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 6.04534E-013

95% of values less than 4.94772E-005

99% of values less than 0.000414541

Minimum 0

Maximum 0.00106498

Mean 1.49433E-005

Std. Dev. 7.98738E-005

Variance 6.37982E-009

At 1000 years

01% of values less than 0

05% of values less than 0

10% of values less than 2.89957E-018

50% of values less than 5.07824E-016

90% of values less than 3.34353E-015

95% of values less than 1.66132E-014

99% of values less than 0.000242006

Minimum 0

Maximum 0.000702569

Mean 5.95553E-006

Std. Dev. 4.60981E-005

Variance 2.12504E-009

Phase: Phase 1*Concentration of Ammoniacal_N 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 6.97473E-019

99% of values less than 4.12023E-005

Minimum 0

Maximum 0.000245752

Mean 1.3619E-006

Std. Dev. 1.2344E-005

Variance 1.52374E-010

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 0

95% of values less than 0

99% of values less than 6.2058E-018

Minimum 0

Maximum 2.32083E-012

Mean 2.57156E-015

Std. Dev. 7.35766E-014

Variance 5.41352E-027

Phase: Phase 1*Concentration of Cadmium at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 8.47246E-006

05% of values less than 1.01095E-005

10% of values less than 1.19527E-005

50% of values less than 3.15654E-005

90% of values less than 8.72213E-005

95% of values less than 0.000126745

99% of values less than 0.000391433

Minimum 7.62027E-006

Maximum 0.0019745

Mean 5.24956E-005

Std. Dev. 0.00011174

Variance 1.24858E-008

Phase: Phase 1*Concentration of Chloride at base of Unsaturated Zone [mg/l]*

At 30 years

01% of values less than 2.08687

05% of values less than 3.19524

10% of values less than 4.44309

50% of values less than 11.6552

90% of values less than 24.0636

95% of values less than 27.7433

99% of values less than 35.8472

Minimum 0.633365

Maximum 51.1279

Mean 13.0588

Std. Dev. 7.7056

Variance 59.3762

At 100 years

01% of values less than 1.73148

05% of values less than 2.67282

10% of values less than 3.64844

50% of values less than 9.35973

90% of values less than 19.23

95% of values less than 22.5352

99% of values less than 28.7543

Minimum 0.495888

Maximum 41.8789

Mean 10.5388

Std. Dev. 6.18173

Variance 38.2138

At 300 years

01% of values less than 0.983013

05% of values less than 1.57468

10% of values less than 2.12113

50% of values less than 5.43589

90% of values less than 11.4581

95% of values less than 13.5818

99% of values less than 19.2052

Minimum 0.265163

Maximum 25.8442

Mean 6.24401

Std. Dev. 3.84328

Variance 14.7708

At 1000 years

01% of values less than 0.0879909

05% of values less than 0.202576

10% of values less than 0.270634

50% of values less than 0.834743

90% of values less than 2.4423

95% of values less than 3.67966

99% of values less than 7.40731

Minimum 0.0252467

Maximum 16.8215

Mean 1.2559

Std. Dev. 1.50111

Variance 2.25332

Phase: Phase 1

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

At infinity

01% of values less than 5.44593E-010

05% of values less than 1.07271E-009

10% of values less than 1.51106E-009

50% of values less than 4.26772E-009

90% of values less than 9.73691E-009

95% of values less than 1.45791E-008

99% of values less than 2.07651E-005

Minimum 0

Maximum 0.0404932

Mean 9.46662E-005

Std. Dev. 0.00171441

Variance 2.93921E-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 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 3.0642E-015

Minimum 0

Maximum 1.40961E-006

Mean 1.64821E-009

Std. Dev. 4.51772E-008

Variance 2.04098E-015

Phase: Phase 1*Concentration of Copper at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 2.36893E-005

05% of values less than 2.61873E-005

10% of values less than 2.81128E-005

50% of values less than 3.86454E-005

90% of values less than 0.000100563

95% of values less than 0.000446763

99% of values less than 0.00870753

Minimum 2.11263E-005

Maximum 0.0252271

Mean 0.000310963

Std. Dev. 0.00175277

Variance 3.0722E-006

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 7.50127E-012

05% of values less than 6.24702E-008

10% of values less than 9.20656E-007

50% of values less than 8.85873E-006

90% of values less than 1.87797E-005

95% of values less than 2.10123E-005

99% of values less than 2.5956E-005

Minimum 0

Maximum 2.94556E-005

Mean 9.64574E-006

Std. Dev. 6.35515E-006

Variance 4.0388E-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 3.31912E-017

99% of values less than 1.18601E-014

Minimum 0

Maximum 3.40842E-014

Mean 3.24575E-016

Std. Dev. 2.34737E-015

Variance 5.51017E-030

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 3.1178E-008

95% of values less than 4.16206E-006

99% of values less than 4.92404E-005

Minimum 0

Maximum 0.000143388

Mean 1.80183E-006

Std. Dev. 1.0812E-005

Variance 1.16899E-010

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 2.77851E-010

90% of values less than 0.0471231

95% of values less than 0.0713158

99% of values less than 0.104868

Minimum 0

Maximum 0.161299

Mean 0.0113553

Std. Dev. 0.0248236

Variance 0.000616209

At 1000 years

01% of values less than 0

05% of values less than 1.57434E-017

10% of values less than 1.9337E-012

50% of values less than 0.0536418

90% of values less than 0.150356

95% of values less than 0.16976

99% of values less than 0.201862

Minimum 0

Maximum 0.279302

Mean 0.0615299

Std. Dev. 0.062442

Variance 0.00389901

Phase: Phase 1*Concentration of Zinc at base of Unsaturated Zone [mg/l]*

At infinity

01% of values less than 2.06563E-009

05% of values less than 2.61137E-009

10% of values less than 3.05344E-009

50% of values less than 5.29629E-009

90% of values less than 1.1923E-007

95% of values less than 4.6888E-006

99% of values less than 0.00135224

Minimum 1.54286E-009

Maximum 0.0194738

Mean 8.8475E-005

Std. Dev. 0.000989617

Variance 9.79341E-007