

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. 7.13308E-009

Variance -5.08808E-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 0.0600001

99% of values less than 0.0600002

Minimum 0.06

Maximum 0.0600005

Mean 0.06

Std. Dev. 4.26816E-008

Variance 1.82172E-015

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 0.0600001

Mean 0.06

Std. Dev. 2.43019E-009

Variance -5.90581E-018

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. 6.35862E-009

Variance -4.04321E-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. 6.87361E-009

Variance -4.72465E-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 29.7402

05% of values less than 30.326

10% of values less than 30.7696

50% of values less than 32.7091

90% of values less than 36.5086

95% of values less than 38.0552

99% of values less than 41.5744

Minimum 29.1216

Maximum 48.1474

Mean 33.3031

Std. Dev. 2.47901

Variance 6.14551

At 100 years

01% of values less than 29.3936

05% of values less than 29.7364

10% of values less than 29.9478

50% of values less than 31.1573

90% of values less than 32.3662

95% of values less than 32.8587

99% of values less than 33.7933

Minimum 29.1076

Maximum 35.3183

Mean 31.1593

Std. Dev. 0.965871

Variance 0.932907

At 300 years

01% of values less than 29.2849

05% of values less than 29.5226

10% of values less than 29.7053

50% of values less than 30.8134

90% of values less than 31.8405

95% of values less than 32.0869

99% of values less than 32.7347

Minimum 29.0854

Maximum 33.6226

Mean 30.7899

Std. Dev. 0.813863

Variance 0.662372

At 1000 years

01% of values less than 29.1017

05% of values less than 29.2079

10% of values less than 29.3432

50% of values less than 30.3453

90% of values less than 31.3084

95% of values less than 31.4216

99% of values less than 31.5987

Minimum 29.0486

Maximum 32.2481

Mean 30.3467

Std. Dev. 0.717937

Variance 0.515433

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 30.221

Std. Dev. 0.701406

Variance 0.491971

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 6.03926E-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 0.000146639

Std. Dev. 5.41571E-005

Variance 2.93299E-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 0.0883745

Std. Dev. 0.0337988

Variance 0.00114236

At 1000 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 0.0908219

90% of values less than 0.134478

95% of values less than 0.13943

99% of values less than 0.144614

Minimum 0.0300386

Maximum 0.150125

Mean 0.0886626

Std. Dev. 0.0338779

Variance 0.00114771

Concentration of Zinc in groundwater [mg/l]

At infinity

01% of values less than 0.0316489

05% of values less than 0.0353094

10% of values less than 0.0407746

50% of values less than 0.0905383

90% of values less than 0.134138

95% of values less than 0.138946

99% of values less than 0.144074

Minimum 0.0300386

Maximum 0.145023

Mean 0.0885544

Std. Dev. 0.0338003

Variance 0.00114246

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(0.11,0.66,1.76) <i>Data are spot measurements of Leachate Quality</i>
Cadmium	LOGTRIANGULAR(0.00011,0.00176,0.0044) <i>Substance to be treated as List 1</i>
Chloride	LOGTRIANGULAR(0.011,21.01,176) <i>Data are spot measurements of Leachate Quality</i>
Copper	LOGTRIANGULAR(0.0099,0.0176,0.0836) <i>Data are spot measurements of Leachate Quality</i>
Mercury	LOGTRIANGULAR(1.1e-005,4.95e-005,0.00011) <i>Substance to be treated as List 1</i>
Naphthalene	LOGTRIANGULAR(0.011,0.11,0.22) <i>Substance to be treated as List 1</i>
Toluene	LOGTRIANGULAR(0.011,0.055,0.165) <i>Substance to be treated as List 1</i>
Zinc	LOGTRIANGULAR(0.011,0.0253,0.44) <i>Data are spot measurements of Leachate Quality</i>

Justification for Species Concentration in Leachate
Concentrations 1 plus 10%

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(0.0235)

Pathway hydraulic conductivity values (m/s): LOGTRIANGULAR(1.95e-005,2.46e-005,0.0001007)

Pathway porosity (fraction): SINGLE(0.28)

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 0.0600001

Mean 0.06

Std. Dev. 4.90689E-009

Variance 2.40775E-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 0.0600002

90% of values less than 0.0600026

95% of values less than 0.0600053

99% of values less than 0.0600132

Minimum 0.06

Maximum 0.0600708

Mean 0.0600011

Std. Dev. 3.48575E-006

Variance 1.21505E-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 0.0600002

99% of values less than 0.0600036

Minimum 0.06

Maximum 0.0600151

Mean 0.0600001

Std. Dev. 9.54041E-007

Variance 9.10194E-013

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 0.0600013

Minimum 0.06

Maximum 0.0600089

Mean 0.06

Std. Dev. 4.33632E-007

Variance 1.88037E-013

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 0.0600005

Minimum 0.06

Maximum 0.0600039

Mean 0.06

Std. Dev. 2.05339E-007

Variance 4.21643E-014

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 29.4886

05% of values less than 29.8407

10% of values less than 30.1119

50% of values less than 31.3918

90% of values less than 32.822

95% of values less than 33.5044

99% of values less than 34.7555

Minimum 29.1263

Maximum 36.7727

Mean 31.441

Std. Dev. 1.11655

Variance 1.24668

At 100 years

01% of values less than 29.3903

05% of values less than 29.7215

10% of values less than 29.9277

50% of values less than 31.1186

90% of values less than 32.2309

95% of values less than 32.7289

99% of values less than 33.5411

Minimum 29.1073

Maximum 34.5726

Mean 31.099

Std. Dev. 0.919865

Variance 0.846152

At 300 years

01% of values less than 29.2846

05% of values less than 29.5132

10% of values less than 29.6896

50% of values less than 30.7891

90% of values less than 31.7896

95% of values less than 32.0228

99% of values less than 32.6371

Minimum 29.0854

Maximum 33.367

Mean 30.7639

Std. Dev. 0.797449

Variance 0.635925

At 1000 years

01% of values less than 29.0978

05% of values less than 29.2036

10% of values less than 29.3432

50% of values less than 30.3453

90% of values less than 31.2965

95% of values less than 31.4152

99% of values less than 31.5987

Minimum 29.0486

Maximum 32.2481

Mean 30.3425

Std. Dev. 0.716803

Variance 0.513807

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 30.221

Std. Dev. 0.701406

Variance 0.491971

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 5.2504E-005

05% of values less than 6.11127E-005

10% of values less than 7.06913E-005

50% of values less than 0.000148746

90% of values less than 0.000219827

95% of values less than 0.000230317

99% of values less than 0.000239185

Minimum 5.0145E-005

Maximum 0.000243193

Mean 0.000147391

Std. Dev. 5.41723E-005

Variance 2.93464E-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 0.0351241

10% of values less than 0.040564

50% of values less than 0.0905411

90% of values less than 0.134053

95% of values less than 0.138999

99% of values less than 0.144137

Minimum 0.0300386

Maximum 0.144827

Mean 0.0884356

Std. Dev. 0.0338147

Variance 0.00114343

At 1000 years

01% of values less than 0.031646

05% of values less than 0.0368262

10% of values less than 0.0413993

50% of values less than 0.0931022

90% of values less than 0.136254

95% of values less than 0.140581

99% of values less than 0.147081

Minimum 0.0300386

Maximum 0.154485

Mean 0.0903748

Std. Dev. 0.0341292

Variance 0.0011648

Phase: Phase 1

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

At infinity

01% of values less than 0.0314646

05% of values less than 0.0351245

10% of values less than 0.0405796

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 0.144074

Minimum 0.0300386

Maximum 0.144914

Mean 0.0884059

Std. Dev. 0.0337949

Variance 0.0011421

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 64

50% of values less than 70

90% of values less than 105

95% of values less than 128

99% of values less than 210

Minimum 52

Maximum 1000

Mean 79.3207

Std. Dev. 40.313

Variance 1625.14

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

01% of values less than 6094

05% of values less than 7428

10% of values less than 7428

50% of values less than 11039

90% of values less than 13458

95% of values less than 16406

99% of values less than 20000

Minimum 4999

Maximum 20000

Mean 10948.6

Std. Dev. 2937.9

Variance 8.63128E+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 19.05

Std. Dev. 0.73178

Variance 0.535502

Approx. time to Peak Conc. Copper 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 14859

95% of values less than 18114

99% of values less than 20000

Minimum 4100

Maximum 20000

Mean 10603.2

Std. Dev. 3254.85

Variance 1.0594E+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 19600.4

Std. Dev. 2800.03

Variance 7.84016E+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 624

05% of values less than 624

10% of values less than 624

50% of values less than 1681

90% of values less than 8202

95% of values less than 9999

99% of values less than 16406

Minimum 624

Maximum 20000

Mean 3411.53

Std. Dev. 3449.9

Variance 1.19018E+007

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

01% of values less than 86

05% of values less than 95

10% of values less than 100

50% of values less than 128

90% of values less than 172

95% of values less than 210

99% of values less than 2050

Minimum 78

Maximum 2050

Mean 177.456

Std. Dev. 301.453

Variance 90874.2

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 19

05% of values less than 21

10% of values less than 23

50% of values less than 26

90% of values less than 30

95% of values less than 30

99% of values less than 35

Minimum 19

Maximum 47

Mean 26.4995

Std. Dev. 3.18532

Variance 10.1462

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 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 18161.8

Std. Dev. 5780.81

Variance 3.34178E+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 1024

05% of values less than 1523

10% of values less than 1856

50% of values less than 5519

90% of values less than 14859

95% of values less than 20000

99% of values less than 20000

Minimum 761

Maximum 20000

Mean 7162.91

Std. Dev. 5319.31

Variance 2.8295E+007

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

01% of values less than 64

05% of values less than 64

10% of values less than 70

50% of values less than 78

90% of values less than 116

95% of values less than 141

99% of values less than 256

Minimum 64

Maximum 2050

Mean 91.7263

Std. Dev. 93.134

Variance 8673.95

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 13

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 23

Minimum 13

Maximum 43

Mean 20.964

Std. Dev. 1.19445

Variance 1.42671

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 19440.6

Std. Dev. 3299.5

Variance 1.08867E+007

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 689

05% of values less than 840

10% of values less than 1024

50% of values less than 2759

90% of values less than 9056

95% of values less than 11039

99% of values less than 18114

Minimum 689

Maximum 20000

Mean 4100.2

Std. Dev. 3672.82

Variance 1.34896E+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 0

10% of values less than 0

50% of values less than 3.31333E-010

90% of values less than 8.62892E-007

95% of values less than 2.24755E-006

99% of values less than 6.77117E-006

Minimum 0

Maximum 1.73219E-005

Mean 3.92905E-007

Std. Dev. 1.41872E-006

Variance 2.01277E-012

At 100 years

01% of values less than 0

05% of values less than 2.22671E-011

10% of values less than 1.16655E-009

50% of values less than 2.21379E-007

90% of values less than 2.96166E-005

95% of values less than 0.000116243

99% of values less than 0.000405664

Minimum 0

Maximum 0.00154447

Mean 2.06119E-005

Std. Dev. 8.94716E-005

Variance 8.00517E-009

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 2.52941E-018

90% of values less than 3.7098E-013

95% of values less than 2.25282E-006

99% of values less than 0.000102655

Minimum 0

Maximum 0.000485882

Mean 3.73558E-006

Std. Dev. 2.65621E-005

Variance 7.05548E-010

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 1.22353E-016

90% of values less than 1.39062E-015

95% of values less than 7.87234E-015

99% of values less than 3.66376E-005

Minimum 0

Maximum 0.000228144

Mean 1.24786E-006

Std. Dev. 1.24601E-005

Variance 1.55255E-010

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 0

99% of values less than 7.1522E-006

Minimum 0

Maximum 5.78351E-005

Mean 2.37282E-007

Std. Dev. 2.6717E-006

Variance 7.13799E-012

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 0

Minimum 0

Maximum 0

Mean 0

Std. Dev. 0

Variance 0

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

At infinity

01% of values less than 9.1127E-006

05% of values less than 1.23461E-005

10% of values less than 1.57129E-005

50% of values less than 4.4459E-005

90% of values less than 0.000144203

95% of values less than 0.00024434

99% of values less than 0.000521708

Minimum 7.56208E-015

Maximum 0.00124832

Mean 7.52318E-005

Std. Dev. 0.000104566

Variance 1.0934E-008

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

At 30 years

01% of values less than 2.29796

05% of values less than 3.5196

10% of values less than 4.90406

50% of values less than 12.8045

90% of values less than 26.8782

95% of values less than 31.3449

99% of values less than 40.0333

Minimum 0.695351

Maximum 67.1377

Mean 14.4951

Std. Dev. 8.78826

Variance 77.2336

At 100 years

01% of values less than 1.9035

05% of values less than 2.93562

10% of values less than 4.01041

50% of values less than 10.2803

90% of values less than 21.1261

95% of values less than 24.786

99% of values less than 31.5767

Minimum 0.54425

Maximum 46.0053

Mean 11.5827

Std. Dev. 6.7932

Variance 46.1476

At 300 years

01% of values less than 1.07454

05% of values less than 1.7262

10% of values less than 2.32191

50% of values less than 5.95268

90% of values less than 12.5361

95% of values less than 14.8956

99% of values less than 21.1109

Minimum 0.290143

Maximum 28.3362

Mean 6.84868

Std. Dev. 4.21696

Variance 17.7827

At 1000 years

01% of values less than 0.102924

05% of values less than 0.218954

10% of values less than 0.293112

50% of values less than 0.91046

90% of values less than 2.65684

95% of values less than 4.02101

99% of values less than 8.12013

Minimum 0.0271091

Maximum 18.4742

Mean 1.36924

Std. Dev. 1.64385

Variance 2.70226

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

At infinity

01% of values less than 6.98856E-010

05% of values less than 1.17626E-009

10% of values less than 1.62965E-009

50% of values less than 4.58602E-009

90% of values less than 1.04885E-008

95% of values less than 1.47246E-008

99% of values less than 2.12273E-005

Minimum 2.28529E-010

Maximum 0.0432081

Mean 0.000100917

Std. Dev. 0.00182994

Variance 3.34868E-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 0

Minimum 0

Maximum 1.65312E-013

Mean 1.65228E-016

Std. Dev. 5.225E-015

Variance 2.73007E-029

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

At infinity

01% of values less than 2.95442E-005

05% of values less than 3.65108E-005

10% of values less than 4.30722E-005

50% of values less than 0.000133089

90% of values less than 0.000964246

95% of values less than 0.00310202

99% of values less than 0.00837889

Minimum 3.44975E-016

Maximum 0.0217406

Mean 0.000613379

Std. Dev. 0.00170327

Variance 2.90114E-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 0

05% of values less than 2.59922E-012

10% of values less than 8.12169E-009

50% of values less than 2.17027E-006

90% of values less than 1.20297E-005

95% of values less than 1.47953E-005

99% of values less than 1.99994E-005

Minimum 0

Maximum 2.92516E-005

Mean 4.18327E-006

Std. Dev. 5.06234E-006

Variance 2.56273E-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 4.21463E-017

Minimum 0

Maximum 1.39517E-014

Mean 2.89653E-017

Std. Dev. 5.32978E-016

Variance 2.84065E-031

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 5.78751E-013

95% of values less than 2.72942E-009

99% of values less than 3.65577E-006

Minimum 0

Maximum 6.06303E-005

Mean 2.55084E-007

Std. Dev. 2.74813E-006

Variance 7.55219E-012

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 0.0183852

95% of values less than 0.0583438

99% of values less than 0.103346

Minimum 0

Maximum 0.148932

Mean 0.00659485

Std. Dev. 0.0206536

Variance 0.000426569

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 2.5494E-005

90% of values less than 0.151503

95% of values less than 0.188352

99% of values less than 0.23301

Minimum 0

Maximum 0.304327

Mean 0.0489579

Std. Dev. 0.0675776

Variance 0.00456673

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

At infinity

01% of values less than 2.2595E-009

05% of values less than 2.89554E-009

10% of values less than 3.38261E-009

50% of values less than 6.15572E-009

90% of values less than 1.33522E-006

95% of values less than 3.00973E-005

99% of values less than 0.00417548

Minimum 1.67048E-009

Maximum 0.01857

Mean 0.000121466

Std. Dev. 0.00103824

Variance 1.07794E-006