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REPORTS

DATE:

2004



April 23, 2004

Mr. Wayne Price
Environmental Bureau
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

**RE: Maxim Technologies, Inc. Letter Report Dated March 31, 2004
Potential for Chloride Migration Through the Vadose Zone
Sims #9 Lease, Lea County, New Mexico**

Dear Mr. Price:

Please find attached a report prepared by Maxim Technologies, Inc. to evaluate the potential for chloride migration from the former Sims #9 lease produced water pit to groundwater. I would appreciate your review and concurrence with the conclusions drawn in the report at your earliest convenience.

Once we receive concurrence from the New Mexico Oil Conservation Division, ConocoPhillips intends to remove sufficient caliche in the former produced water pit to accommodate seeding in a manner consistent with guidance from the U.S. Soil Conservation Division. Prior to reseeding activities, site will be returned to grade with a sufficient depth of clean topsoil to support the reseeding activities.

If you should have any questions regarding the attached report, please do not hesitate to contact me directly.

Sincerely,

A handwritten signature in black ink, appearing to read 'Neal Goates', written over a horizontal line.

Neal Goates
Site Manager

Attachment



1R0405

10601 Lomas Blvd. NE, Suite 106
Albuquerque, NM 87112
(505) 237-8440
fax (505) 237-8656

April 23, 2004

Mr. Neal Goates
Site Manager
ConocoPhillips
Threadneedle Office
600 N. Dairy Ashford
Houston, TX 77079-1175

**RE: Potential for Chloride Migration Through the Vadose Zone
From a Former Produced Water Pit
Sims #9 Lease, Lea County, New Mexico
Reference May 31, 2001 Phillip Services Corporation Report**

Dear Mr. Goates:

Pursuant to your request, Maxim Technologies, Inc. (Maxim) reviewed a report prepared on behalf of ConocoPhillips by Phillip Services Corporation (PSC), dated May 31, 2001. The report presented the results of a field investigation conducted on the Sims #9 lease, Lea County, New Mexico during March 26 and 27, 2001. The report references preliminary fieldwork performed by PSC on September 11, 2000; however, that information was not available during this review.

The purpose of the PSC report review by Maxim was to evaluate the potential for chloride migration from the former Sims #9 lease produced water pit to groundwater. The results of that evaluation are presented herein.

Background

The May 2001 PSC report describes the installation and sampling of a soil boring within the confines of a former produced water pit on the Sims #9 lease. The soil boring and associated soil sampling extended to the groundwater table at a depth of approximately 54 feet below ground surface (bgs) at the time of the drilling. Following the drilling of the soil boring, a monitor well was installed in the boring and screened from 48 to 63 feet bgs.

Five soil samples were collected from the boring and analyzed for chloride, percent moisture, and conductivity. Field conductivity measurements were also made at the time of the sampling. A groundwater sample was also collected and submitted to a laboratory for analysis of alkalinity, bicarbonate, carbonate, chloride, conductivity, fluoride, sulfate, total dissolved solids and pH.

On August 8, 2003, at your direction, Maxim sampled the groundwater from the above-described monitor well and submitted a sample for analysis of chloride. Results were consistent with those reported in the PSC May 2001 report.

The results of the PSC and Maxim groundwater sampling events are presented in Table 1.

Table 1: Groundwater Results, Sims #9 lease monitor well

Parameters Analyzed	PSC Results 27-Mar-01	Maxim Results 8-Aug-03
Alkalinity, Total	184 mg/L	NA
Bicarbonate (as CaCO3)	184 mg/L	NA
Carbonate (as CaCO3)	<2 mg/L	NA
Chloride (Cl)	239 mg/L	223 mg/L
Conductivity (EC)	1510 umho/cm	NA
Fluoride (F)	3.10 mg/L	NA
Sulfate (SO4)	237 mg/L	NA
Total Dissolved Solids	1030 mg/L	NA
pH	7.90 su	NA

mg/L - milligrams per liter

umho/cm - micromhos per centimeter

su - standard units

NA - not analyzed

As previously stated, five soils samples were collected by PSC during installation of the soil boring/monitor well. The analytical results are presented in Table 2.

Table 2: Soil Boring Sample Interval and Analytical Results

Parameters Analyzed	Soil Sampling Interval and Analytical Results				
	10-12'	20-22'	30-32'	40-42'	50-52'
Field Conductivity – umho/cm	2570	350	140	250	280
% Moisture	63.2	43.3	24.4	58.3	64.1
Conductivity – mmho/cm	11.4	2.73	0.82	1.73	3.06
Chloride, (mg/L)	2620	676	211	423	845

mg/L - milligram per liter

Umho/cm – micromhos per centimeter

mmho/cm – millimhos per centimeter

A lithologic log of the soil boring was prepared by PSC and attached to the May 2001 report. The subsurface stratigraphy consists of alternating caliches, with minor interbedded sandstones. The samples collected for analysis consisted of the following lithology:

- 10- to 12-foot interval – caliche
- 20- to 22-foot interval – caliche
- 30- to 32-foot interval – sandstone
- 40- to 42-foot interval – caliche
- 50- to 52-foot interval – caliche

A caliche is defined as a calcareous material of secondary accumulation (in place), commonly found in layers on, near or within the surface soils of arid and semiarid regions. It is composed largely of crusts or succession of crusts of soluble calcium salts in addition to impurities such as gravel, sand, silt and clay. It commonly occurs as a thick, impermeable and strongly indurated layer near the surface or exposed by erosion. Caliche appears to form by a variety of processes, such as by capillary action in which soil solutions rise to the surface and upon evaporation, deposit their salt contents on or in the surface materials (AGI, 1972).

The minor interbedded sands, such as the sample from the 30-foot interval are most likely representative of a subaerial erosion surface and are more permeable than the caliche horizons.

Evaluation of Potential for Chloride to Migrate Through the Vadose Zone Sims #9 Lease

In order to perform the requested evaluation, a two-fold approach was selected. Approach one consisted of taking the PSC data generated during their site investigation, preparing a conceptual model of the hydrogeologic environment underlying the Sims #9 lease, and applying basic hydrogeologic principles to determine the likelihood of vadose zone migration of chloride. The second approach was to apply VADSAT (API, 1995) analytic modeling to the previously generated site conceptual model. The VADSAT model is used for calculating the rate of downward chloride migration in the unsaturated zone and evaluating the potential for impacting groundwater.

Site Conceptual Model Evaluation

Based on information presented in the PSC report and summarized above in the Background section, the site conceptual model can be summarized as follows:

The site is underlain by successive layers of caliche with minor interbedded sands. This type of stratigraphy is indicative of either (1) the relic position of paleo-groundwater tables, (2) successive surficial erosion horizons produced by capillary leaching action, as described above, that have been buried over geologic time, or (3) the depth of actual surface water infiltration over time. In all cases, the current configuration of the caliches, represent downward-most limits at which surface water infiltration will likely occur.

Basic hydrogeologic principles applicable to the site conceptual model include:

- The fact that infiltration rates of surface water in this region are very low. Work by Sanlon, et. al, 1997 indicates that no surface water infiltration ever reaches groundwater because of rapid evapotranspiration rates of the desert southwest.
- Also, based on soil sampling performed by PSC, the soil samples collected from caliche zones exhibited higher relative chloride concentrations than those collected from sandstone horizons. This is to be expected since by definition caliches are composed of soluble calcium salts and analyses of such could produce higher chloride values than those of loosely cemented sands. Therefore, strict adherence to soil chloride analyses with depth, as evidence of a recent surface release and subsequent downward migration of chloride-rich waters, is unsubstantiated.
- The fact that groundwater chloride concentrations have not varied over time indicates that a downward migrating chloride-rich plume is not currently discharging into the local groundwater system.

VADSAT Modeling of the Fate and Transport of Chloride

VADSAT (API, 1995) is a vadose and saturated zone transport model for assessing the effects on groundwater quality from subsurface hydrocarbon releases and petroleum production waste management practices from the American Petroleum Institute (API). VADSAT allows operators to simulate the potential impact on shallow groundwater from land-based waste disposal practices. The transport of residual salt from saltwater spills and pits can also be modeled by VADSAT. VADSAT considers many of the important natural attenuation processes that control the fate and transport of associated waste constituents, such as evaporation, biodegradation, adsorption to organic carbon, dispersion and dilution. In this case, the VADSAT model is used for calculating the rate of downward chloride migration in the unsaturated zone and evaluating the potential for impacting groundwater (Appendix A).

Choice of Input Parameters

The site is underlain by successive layers of silt and clay sediments that are strongly cemented with caliche and contain minor interbedded sands. This type of stratigraphy is indicative of either (1) the relic position of paleo-groundwater tables, (2) successive surficial erosion horizons produced by capillary leaching action, as described above, that have been buried over geologic time, or (3) the depth of actual surface water infiltration over time.

The silts, clays and caliche can be barriers to downward migration of water, and at Sims # 9, the current configuration of the caliches, likely represents the downward-most limits to which surface water infiltration occurs. All of these features can be considered to be impermeable layers in the VADSAT model, and a primary part of the VADSAT setup is the determination whether impermeable layers are present. If they are, VADSAT will put more emphasis on

evaporation, and the migration of chemicals will be slower. For this model, the impermeable layer option was turned off in order to make a conservative estimate of transport.

In addition to subsurface soil types, a major consideration in transport is the amount of recharge the water table receives at the location in question (the amount of annual precipitation that makes it to groundwater). This parameter (termed "net infiltration" in VADSAT) is a function of climate and depth to groundwater.

Potential evaporation in southeastern New Mexico is much greater than average annual precipitation. Evaporation from a Class A pan is more than 110 inches in southeastern valleys, while average annual precipitation ranges from 12 inches in Carlsbad to 16 inches in Hobbs (Western Regional Climate Center, Desert Research Center, <http://www.wrcc.dri.edu/>).

This condition results in evaporation of a large majority of the precipitation, leaving very little to infiltrate. There is considerable debate in the scientific community on whether any surface water infiltration ever reaches groundwater (Sanlon, et. al., 1997) because of rapid evapotranspiration rates of the desert southwest coupled with depths to groundwater that exceed 40 feet below ground surface (more than 50 feet at Sims #9). At a similar site in Arizona, the USGS (Andraski et. al, 2002) (http://toxics.usgs.gov/pubs/agu_poster/) reports "chloride-concentration profiles indicate that percolation past the 10-m depth (approximately 33 feet) has been negligible for the past 16,000 years".

Given that the most likely possibility is that no precipitation ever reaches the groundwater table beneath Simms #9 and that VADSAT will not run with a zero value for net infiltration, a range of model runs were made for the sake of conservatism. Values for net infiltration ranged from a moderately unlikely and conservative 0.1 inch per year to a highly unlikely order of magnitude higher, one inch per year. All other parameters were held constant during these runs.

The chloride concentration used for the model was the highest soil value reported in the PSC Report, dated May 31, 2001. Approximately 25 percent of that value was added to introduce a measure of conservatism. The soil chloride values in the PSC report were given in milligrams per liter (mg/L); nonstandard reporting units for soil, which are typically reported in milligrams per kilogram (mg/kg). SASI, Inc., the laboratory that performed the analyses, stated in a telephone conversation (979-690-2280) on March 15, 2004, they used a method for measuring chloride that included (1) drying and pulverizing the sample to a fine powder, (2) applying enough distilled water to make a saturated paste (reported as SP % moisture), (3) decanting the water using a centrifuge, and (4) analyzing the decant water for chloride. For the purpose of chloride data input to the model, the resulting highest chloride value in mg/L reported in the PSC report (2,620 mg/L with SP % moisture = 63.2 percent) was converted to mg/kg soil by the following equation:

$$\begin{aligned} ? \text{ mg Chloride} &= 1.0 \text{ Kg Soil} \times \frac{1,000 \text{ g Soil}}{1.0 \text{ Kg Soil}} \times \frac{63.2 \text{ g Water}}{100 \text{ g Soil}} \times \frac{1.0 \text{ L Water}}{1,000 \text{ g Water}} \times \frac{2620 \text{ mg Chloride}}{1.0 \text{ L Water}} \\ &= 1656 \frac{\text{mg Chloride}}{\text{Kg soil}} \end{aligned}$$

Therefore, the value of 1,656 mg/kg was used as the chloride source term for the model. This value compares to the highest report chloride valued of 2,620 mg/L reported in the PSC report.

Other model parameters were taken from site-specific data or selected from the VADSAT database when no site-specific data was available. For example, unsaturated parameters such as hydraulic conductivity, porosity, the Van Genuchten pore size distribution parameter, and dispersivity parameters were chosen as the average database values for silty clay. This approach is conservative because it ignores the reduction in these values due to the blockage of much of the pore space by caliche. The saturated zone parameters are poorly known in the vicinity of Sims #9. Therefore, parameters such as saturated conductivity, dispersivity, aquifer thickness, and gradient were chosen as the average of all of those parameters in the VADSAT database.

Points to measure chloride concentration were:

1. Just before the point source of chloride had entered groundwater
2. 15 feet downgradient, along the flow path after it had entered groundwater
3. 60 feet downgradient, along the flow path, approximating the property boundary
4. 300 feet downgradient of the property boundary

Model Parameters are presented in Table 1 and results are presented in Figures 1 through 3.

Table 1 – VADSAT Model Input Parameters

Table of Model Parameters

SOURCE AND CHEMICAL DATA		Value	Data Source
Mean thickness of waste zone		3.0 meters	Site Data
Mean waste zone area		900 cubic meters	Site Data
Mean waste zone length/width ratio		1	Site Data
Mean value of cover thickness		0.0 meters	Site Data
Mean mass fraction of salt in waste		2000 mg/kg	Calculated from Site Data
Mean aqueous phase concentration of salt		9422 grams per cubic meter	Calculated
HYDROGEOLOGICAL PROPERTIES		Value	Data Source
Mean saturated conductivity		0.005 meters per day	Vadsat Database
Mean depth to groundwater		16.6 meters	Site Data
Mean vadose zone porosity		36 percent	Vadsat Database
Mean value of van genuchten pore size distribution parameter (n)		1.09	Vadsat Database
Mean residual water content		0.07 percent saturation	Vadsat Database
Unsaturated dispersivity calculated internally			
SATURATED ZONE INPUT PARAMETERS		Value	Data Source
Mean saturated zone porosity		20 percent	Vadsat Database
Mean dispers, ratio long/ transverse		3	Vadsat Database
Mean dispersivity ratio transverse/vertical		87	Vadsat Database
Saturated hydraulic conductivity		0.86 meters per day	Vadsat Database
Hydraulic gradient		0.021 meters per meter	Vadsat Database
Mean aquifer thickness		21.8 meters	Vadsat Database
Mean infiltration rate		0.1, 0.5, and 1 inches per year	Literature
LOCATION OF GROUNDWATER MEASUREMENTS		Downgradient Direction (meters)	Vertical Direction (meters)
Receptor(0)		0	0
Receptor(1)		5	0
Receptor(2)		20	0
Receptor(3)		120	0

Figure 1 – One-Tenth Inch of Recharge per Year

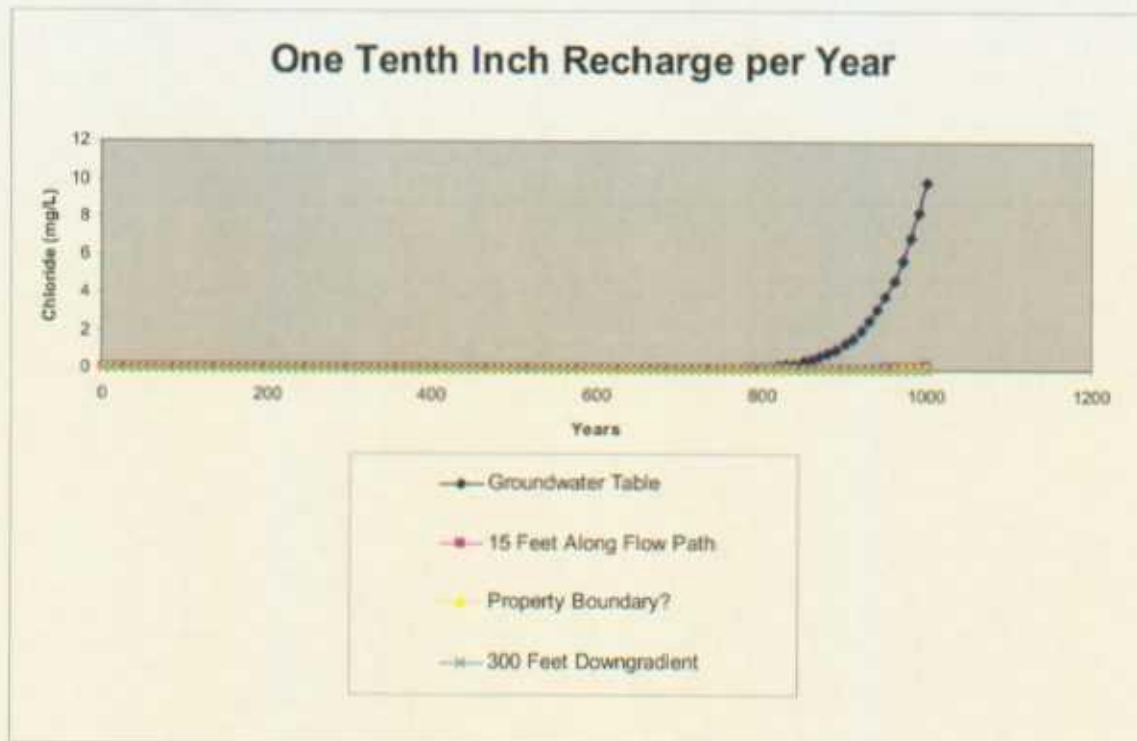


Figure 2 – One-Half Inch Recharge Per Year

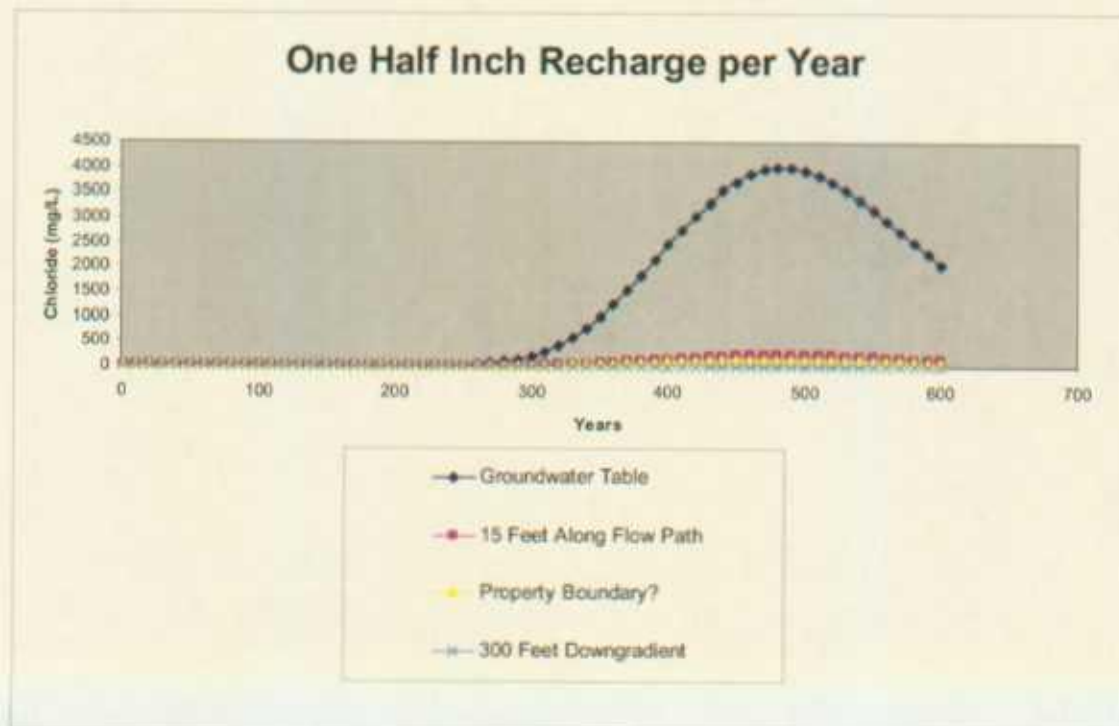
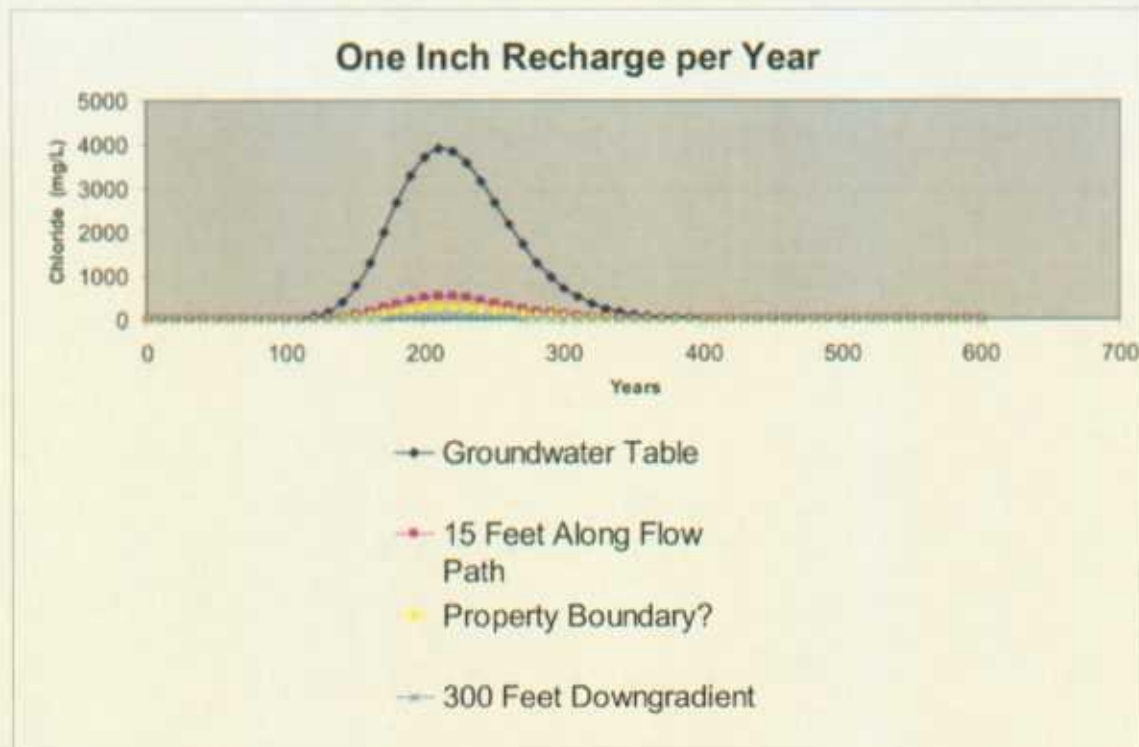


Figure 3 – One-Inch Recharge Per Year



Conclusions

1. Using a conservative, yet unlikely scenario where net infiltration equals one tenth of an inch per year, the chloride slug will begin to arrive at groundwater in 860 years and will have reached a concentration of 10 mg/L in 1,000 years. There will have been no measurable impact to groundwater in 1,000 years.
2. Assuming the highly unlikely scenario of one inch of net recharge per year, it will be at least 100 years before the chloride slug begins to arrive at groundwater, and approximately 200 years before it reaches its maximum value as shown in Figure 3.

If you should have any questions, please do not hesitate to call.

Very truly yours,
MAXIM TECHNOLOGIES, INC.

Clyde L. Yancey, P.G.
Senior Vice President

References

API (American Petroleum Institute), 1995, VADSAT V. 3.0, *A Vadose Zone and Saturated Zone Transport Model for Assessing the Effects on Groundwater Quality from Subsurface Petroleum Hydrocarbon Releases and Petroleum Production Waste Management Practices*. American Petroleum Institute, Washington, D.C.

AGI (American Geological Institute), 1972, *Glossary of Geology*, American Geological Institute, Washington, D.C. 805 pp.

Scanlon, B.R., Tyler, S.W., and Wierenga, P.J., 1997, Hydrologic Issues in Arid, Unsaturated Systems and Implications for Contaminant Transport. *Reviews of Geophysics*, N.35, v. 4, pp 461-490.

APPENDIX A

VADSAT Model Results

Infiltration Rate 0.1 inches per year.

```
+ + + + + + + + + + + + + + + + + + + + + + +  
+  
+ VADSAT Version 3.0  
+  
+ A Monte Carlo Model for Assessing the Effects of Soil  
+ Contamination on Groundwater Quality  
+  
+  
+ Developed by:  
+ Environmental Systems and Technologies Inc.  
+ Blacksburg, Virginia  
+ Tel: 703-552-0685, Fax: 703-951-5307  
+  
+  
+ For  
+ The American Petroleum Institute  
+ 1995  
+
```

PROJECT TITLE: Sims # 9 Model for Produced Water Infiltration

SOURCE AND CHEMICAL DATA *****

```
DEPTHM, MEAN THICKNESS OF WASTE ZONE (m)      =      3.00000
DEPSTD, STD.DEV. OF THICKNESS OF WASTE ZONE =      0.00000
```

```
AREAM, MEAN WASTE ZONE AREA (m^2)      = 900.00000
STDA, STD.DEV. OF WASTE ZONE AREA      = 0.00000
```

```

RLWM, MEAN L/W RATIO (-)          =      1.00000
STDRLW, STD.DEV. OF L/W RATIO    =      0.00000

```

```

CVRTHM, MEAN VALUE OF COVER THICKNESS (m)      =      0.00000
CVRTHS, STD.DEV. OF COVER THICKNESS              =      0.00000

```

```
MEAN MASS FRACTION OF SALT IN WASTE (mg/kg) = 1999.99536
STD OF MASS FRACTION OF SALT IN WASTE      = 0.00000
```

CZEROM, MEAN AQU. PHASE CONC OF SALT (g/m³) = 9422.20020
CZEROS, STD.DEV. OF AQU. PHASE CONC. OF SALT = 0.00000

CHEMICAL SPECIES	Sodium Chloride
------------------	-----------------

HYDROGEOLOGICAL PROPERTIES

** UNSATURATED ZONE INPUT PARAMETERS **

```
GAMMAM, MEAN UNSAT ZONE DECAY COEF (1/day) = 0.00000
STDGAM, STD.DEV. OF UNSAT ZONE DECAY COEF = 0.00000
```

```
UNFOCM, MEAN UNSAT ZONE ORGANIC CARBON FRACTION (-) = 0.00000
UNFOCS, STD.DEV. OF UNSAT ZONE ORGANIC CARBON FRAC. = 0.00000
```

FKSW, MEAN SAT. CONDUCTIVITY (m/day)	=	0.00500
STDFKS, STD.DEV. OF SAT. CONDUCTIVITY	=	0.000
DISTM, MEAN DEPTH TO GROUNDWATER (m)	=	16.60000
STDDST, STD.DEV. OF DEPTH TO GROUNDWATER	=	0.00000
UNPORM, MEAN VADOSE ZONE POROSITY (-)	=	0.36000
SUNPOR, STD.DEV. OF VADOSE ZONE POROSITY	=	0.00000
PARNM, MEAN VALUE OF VG PARAMETER N (-)	=	1.09000
SDPARN, STD.DEV. OF VG PARAMETER N	=	0.00000
RESWCM, MEAN RESIDUAL WATER CONTENT (-)	=	0.07000
RESWCS, STD.DEV. OF RESIDUAL WATER CONTENT	=	0.00000

ALFINM = 0, UNSAT DISPERSIVITY CALCULATED INTERNALLY

** SATURATED ZONE INPUT PARAMETERS **

LAMBW, MEAN SAT. ZONE DECAY COEFF. (1/day)	=	0.00000
SLAMB, STD.DEV. OF SAT. ZONE DECAY COEFF.	=	0.00000
PORM, MEAN SAT. ZONE POROSITY (-)	=	0.20000
STDPOR, STD.DEV. OF SAT. ZONE POROSITY	=	0.00000
FOCM, MEAN SAT. ZONE ORG. CARBON FRAC. (-)	=	0.00000
STDFOC, STD.DEV. SAT. ZONE ORG. CARBON FRAC.	=	0.00000
ALRLTM, MEAN DISPERS. RATIO LONG/TRANSV. (-)	=	3.00000
SALRLT, STD.DEV. OF DISP. RATIO LONG/TRANSV.	=	0.00000
ALRTVM, MEAN DISPERS. RATIO TRANSV/VERT. (-)	=	87.00000
SALRTV, STD.DEV. OF DISP. RATIO TRANSV/VERT.	=	0.00000
CONDS, SAT. HYDRAULIC COND. (m/day)	=	0.86000
SCONDS, STD.DEV. OF SAT HYDRAULIC COND.	=	0.00000
GRADS, HYDRAULIC GRADIENT (m/m)	=	0.02100
SGRADs, STD.DEV. OF HYDRAULIC GRADIENT	=	0.00000
HMEAN, MEAN AQUIFER THICKNESS (m)	=	21.80000
STDH, STD.DEV. OF AQUIFER THICKNESS	=	0.00000
QINM, MEAN INFILTRATION RATE (m/day)	=	0.00001
QINSTD, STD.DEV. OF INFILTRATION RATE	=	0.00000

LOCATION OF RECEPTORS:

	X (M)	Y (M)	Z (M)
RECEPTOR(1)	5.0	0.0	0.0
RECEPTOR(2)	20.0	0.0	0.0
RECEPTOR(3)	120.0	0.0	0.0

BREAKTHROUGH CURVES

CONCENTRATIONS (MG/L) AT:

TIME WATER TABLE RECEPTORS (in order)
(DAYS) BELOW THE SOURCE

365.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
730.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1095.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1460.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1825.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2190.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2555.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2920.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3285.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3650.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4015.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4380.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4745.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5110.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5475.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5840.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6205.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6570.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6935.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7300.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7665.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8030.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8395.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8760.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9125.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9490.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9855.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10220.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10585.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10950.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11315.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11680.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12045.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12410.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12775.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13140.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13505.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13870.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14235.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14600.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14965.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
15330.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
15695.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16060.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16425.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16790.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17155.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17520.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17885.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
18250.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
18615.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
18980.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
19345.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

[illegible]

[illegible]

[illegible]

[illegible]

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*****	0.1763E-03	0.2287E-05	0.1351E-05	0.1117E-06
*****	0.1854E-03	0.2406E-05	0.1421E-05	0.1175E-06
*****	0.1950E-03	0.2530E-05	0.1495E-05	0.1237E-06
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*****	0.2155E-03	0.2797E-05	0.1653E-05	0.1369E-06
*****	0.2266E-03	0.2941E-05	0.1738E-05	0.1440E-06
*****	0.2381E-03	0.3091E-05	0.1826E-05	0.1514E-06
*****	0.2502E-03	0.3248E-05	0.1920E-05	0.1593E-06
*****	0.2628E-03	0.3413E-05	0.2017E-05	0.1674E-06
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*****	0.2899E-03	0.3766E-05	0.2226E-05	0.1849E-06
*****	0.3044E-03	0.3954E-05	0.2337E-05	0.1943E-06
*****	0.3196E-03	0.4151E-05	0.2455E-05	0.2041E-06
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***** 0.3666E-02 0.4784E-04 0.2840E-04 0.2418E-05
***** 0.3818E-02 0.4982E-04 0.2957E-04 0.2519E-05
***** 0.3975E-02 0.5188E-04 0.3080E-04 0.2624E-05
***** 0.4137E-02 0.5401E-04 0.3206E-04 0.2733E-05
***** 0.4307E-02 0.5622E-04 0.3337E-04 0.2846E-05
***** 0.4481E-02 0.5850E-04 0.3473E-04 0.2963E-05
***** 0.4663E-02 0.6089E-04 0.3615E-04 0.3085E-05
***** 0.4852E-02 0.6336E-04 0.3762E-04 0.3212E-05
***** 0.5047E-02 0.6591E-04 0.3914E-04 0.3343E-05
***** 0.5251E-02 0.6857E-04 0.4072E-04 0.3479E-05
***** 0.5461E-02 0.7133E-04 0.4236E-04 0.3620E-05
***** 0.5678E-02 0.7417E-04 0.4405E-04 0.3766E-05
***** 0.5905E-02 0.7713E-04 0.4581E-04 0.3918E-05
***** 0.6138E-02 0.8019E-04 0.4763E-04 0.4075E-05
***** 0.6382E-02 0.8337E-04 0.4952E-04 0.4239E-05
***** 0.6634E-02 0.8667E-04 0.5148E-04 0.4408E-05
***** 0.6893E-02 0.9006E-04 0.5350E-04 0.4583E-05
***** 0.7164E-02 0.9361E-04 0.5561E-04 0.4765E-05
***** 0.7442E-02 0.9726E-04 0.5778E-04 0.4953E-05
***** 0.7732E-02 0.1011E-03 0.6004E-04 0.5149E-05
***** 0.8033E-02 0.1050E-03 0.6238E-04 0.5351E-05
***** 0.8342E-02 0.1090E-03 0.6479E-04 0.5560E-05
***** 0.8665E-02 0.1133E-03 0.6731E-04 0.5778E-05
***** 0.8996E-02 0.1176E-03 0.6989E-04 0.6001E-05
***** 0.9341E-02 0.1221E-03 0.7258E-04 0.6235E-05
***** 0.9698E-02 0.1268E-03 0.7536E-04 0.6476E-05
***** 0.1007E-01 0.1316E-03 0.7823E-04 0.6725E-05
***** 0.1045E-01 0.1366E-03 0.8121E-04 0.6983E-05
***** 0.1084E-01 0.1418E-03 0.8428E-04 0.7250E-05
***** 0.1125E-01 0.1471E-03 0.8747E-04 0.7527E-05

*****	0.1167E-01	0.1527E-03	0.9078E-04	0.7814E-05
*****	0.1211E-01	0.1584E-03	0.9418E-04	0.8109E-05
*****	0.1256E-01	0.1643E-03	0.9771E-04	0.8416E-05
*****	0.1303E-01	0.1705E-03	0.1014E-03	0.8734E-05
*****	0.1351E-01	0.1768E-03	0.1051E-03	0.9061E-05
*****	0.1401E-01	0.1833E-03	0.1090E-03	0.9400E-05
*****	0.1453E-01	0.1901E-03	0.1130E-03	0.9750E-05
*****	0.1506E-01	0.1971E-03	0.1172E-03	0.1011E-04
*****	0.1562E-01	0.2043E-03	0.1215E-03	0.1049E-04
*****	0.1618E-01	0.2118E-03	0.1260E-03	0.1088E-04
*****	0.1677E-01	0.2195E-03	0.1306E-03	0.1128E-04
*****	0.1738E-01	0.2275E-03	0.1353E-03	0.1169E-04
*****	0.1801E-01	0.2357E-03	0.1402E-03	0.1212E-04
*****	0.1866E-01	0.2443E-03	0.1453E-03	0.1256E-04
*****	0.1933E-01	0.2530E-03	0.1505E-03	0.1302E-04
*****	0.2002E-01	0.2621E-03	0.1560E-03	0.1349E-04
*****	0.2074E-01	0.2715E-03	0.1615E-03	0.1398E-04
*****	0.2148E-01	0.2812E-03	0.1673E-03	0.1448E-04
*****	0.2224E-01	0.2912E-03	0.1733E-03	0.1500E-04
*****	0.2302E-01	0.3015E-03	0.1794E-03	0.1554E-04
*****	0.2384E-01	0.3122E-03	0.1858E-03	0.1610E-04
*****	0.2467E-01	0.3231E-03	0.1923E-03	0.1667E-04
*****	0.2554E-01	0.3345E-03	0.1991E-03	0.1726E-04
*****	0.2643E-01	0.3462E-03	0.2061E-03	0.1787E-04
*****	0.2735E-01	0.3583E-03	0.2133E-03	0.1850E-04
*****	0.2830E-01	0.3707E-03	0.2207E-03	0.1915E-04
*****	0.2928E-01	0.3835E-03	0.2283E-03	0.1982E-04
*****	0.3029E-01	0.3968E-03	0.2362E-03	0.2051E-04
*****	0.3133E-01	0.4105E-03	0.2444E-03	0.2123E-04
*****	0.3241E-01	0.4246E-03	0.2528E-03	0.2196E-04
*****	0.3352E-01	0.4392E-03	0.2615E-03	0.2272E-04
*****	0.3466E-01	0.4542E-03	0.2704E-03	0.2351E-04
*****	0.3583E-01	0.4696E-03	0.2796E-03	0.2432E-04
*****	0.3705E-01	0.4856E-03	0.2892E-03	0.2515E-04
*****	0.3830E-01	0.5019E-03	0.2989E-03	0.2601E-04
*****	0.3959E-01	0.5189E-03	0.3090E-03	0.2690E-04
*****	0.4092E-01	0.5364E-03	0.3195E-03	0.2781E-04
*****	0.4228E-01	0.5543E-03	0.3301E-03	0.2875E-04
*****	0.4370E-01	0.5729E-03	0.3412E-03	0.2972E-04
*****	0.4515E-01	0.5919E-03	0.3526E-03	0.3072E-04
*****	0.4665E-01	0.6116E-03	0.3643E-03	0.3176E-04
*****	0.4819E-01	0.6319E-03	0.3764E-03	0.3282E-04
*****	0.4977E-01	0.6526E-03	0.3888E-03	0.3391E-04
*****	0.5141E-01	0.6742E-03	0.4017E-03	0.3504E-04
*****	0.5309E-01	0.6962E-03	0.4148E-03	0.3620E-04
*****	0.5483E-01	0.7191E-03	0.4284E-03	0.3740E-04
*****	0.5661E-01	0.7425E-03	0.4424E-03	0.3863E-04
*****	0.5845E-01	0.7666E-03	0.4568E-03	0.3990E-04
*****	0.6034E-01	0.7915E-03	0.4717E-03	0.4121E-04
*****	0.6228E-01	0.8170E-03	0.4869E-03	0.4255E-04
*****	0.6429E-01	0.8434E-03	0.5026E-03	0.4393E-04
*****	0.6635E-01	0.8705E-03	0.5188E-03	0.4536E-04
*****	0.6847E-01	0.8983E-03	0.5354E-03	0.4682E-04
*****	0.7066E-01	0.9270E-03	0.5526E-03	0.4834E-04
*****	0.7291E-01	0.9566E-03	0.5702E-03	0.4990E-04
*****	0.7521E-01	0.9869E-03	0.5883E-03	0.5149E-04
*****	0.7758E-01	0.1018E-02	0.6069E-03	0.5314E-04

*****	0.8002E-01	0.1050E-02	0.6260E-03	0.5483E-04
*****	0.8254E-01	0.1083E-02	0.6458E-03	0.5657E-04
*****	0.8513E-01	0.1117E-02	0.6661E-03	0.5837E-04
*****	0.8777E-01	0.1152E-02	0.6869E-03	0.6021E-04
*****	0.9051E-01	0.1188E-02	0.7083E-03	0.6210E-04
*****	0.9331E-01	0.1225E-02	0.7303E-03	0.6405E-04
*****	0.9620E-01	0.1263E-02	0.7530E-03	0.6605E-04
*****	0.9917E-01	0.1302E-02	0.7764E-03	0.6812E-04
*****	0.1022E+00	0.1342E-02	0.8002E-03	0.7023E-04
*****	0.1053E+00	0.1383E-02	0.8248E-03	0.7241E-04
*****	0.1086E+00	0.1425E-02	0.8500E-03	0.7464E-04
*****	0.1119E+00	0.1469E-02	0.8761E-03	0.7695E-04
*****	0.1153E+00	0.1514E-02	0.9028E-03	0.7932E-04
*****	0.1188E+00	0.1559E-02	0.9302E-03	0.8175E-04
*****	0.1223E+00	0.1607E-02	0.9584E-03	0.8424E-04
*****	0.1260E+00	0.1655E-02	0.9872E-03	0.8680E-04
*****	0.1298E+00	0.1705E-02	0.1017E-02	0.8945E-04
*****	0.1337E+00	0.1756E-02	0.1048E-02	0.9216E-04
*****	0.1377E+00	0.1808E-02	0.1079E-02	0.9494E-04
*****	0.1418E+00	0.1862E-02	0.1111E-02	0.9779E-04
*****	0.1460E+00	0.1917E-02	0.1144E-02	0.1007E-03
*****	0.1504E+00	0.1975E-02	0.1178E-02	0.1037E-03
*****	0.1548E+00	0.2034E-02	0.1213E-02	0.1068E-03
*****	0.1593E+00	0.2094E-02	0.1249E-02	0.1100E-03
*****	0.1640E+00	0.2155E-02	0.1286E-02	0.1133E-03
*****	0.1688E+00	0.2218E-02	0.1324E-02	0.1167E-03
*****	0.1737E+00	0.2283E-02	0.1362E-02	0.1201E-03
*****	0.1788E+00	0.2349E-02	0.1402E-02	0.1237E-03
*****	0.1839E+00	0.2417E-02	0.1443E-02	0.1273E-03
*****	0.1893E+00	0.2487E-02	0.1485E-02	0.1310E-03
*****	0.1947E+00	0.2559E-02	0.1528E-02	0.1348E-03
*****	0.2003E+00	0.2633E-02	0.1571E-02	0.1387E-03
*****	0.2060E+00	0.2708E-02	0.1617E-02	0.1428E-03
*****	0.2119E+00	0.2786E-02	0.1663E-02	0.1469E-03
*****	0.2180E+00	0.2865E-02	0.1710E-02	0.1511E-03
*****	0.2241E+00	0.2947E-02	0.1759E-02	0.1554E-03
*****	0.2305E+00	0.3030E-02	0.1809E-02	0.1599E-03
*****	0.2370E+00	0.3116E-02	0.1860E-02	0.1645E-03
*****	0.2436E+00	0.3203E-02	0.1912E-02	0.1691E-03
*****	0.2505E+00	0.3293E-02	0.1966E-02	0.1739E-03
*****	0.2575E+00	0.3386E-02	0.2022E-02	0.1788E-03
*****	0.2646E+00	0.3480E-02	0.2078E-02	0.1839E-03
*****	0.2720E+00	0.3577E-02	0.2136E-02	0.1891E-03
*****	0.2795E+00	0.3676E-02	0.2195E-02	0.1944E-03
*****	0.2873E+00	0.3778E-02	0.2256E-02	0.1998E-03
*****	0.2952E+00	0.3882E-02	0.2319E-02	0.2054E-03
*****	0.3033E+00	0.3989E-02	0.2382E-02	0.2111E-03
*****	0.3116E+00	0.4099E-02	0.2448E-02	0.2169E-03
*****	0.3201E+00	0.4211E-02	0.2515E-02	0.2229E-03
*****	0.3288E+00	0.4326E-02	0.2584E-02	0.2291E-03
*****	0.3378E+00	0.4443E-02	0.2654E-02	0.2354E-03
*****	0.3469E+00	0.4564E-02	0.2726E-02	0.2418E-03
*****	0.3563E+00	0.4688E-02	0.2800E-02	0.2484E-03
*****	0.3659E+00	0.4814E-02	0.2876E-02	0.2552E-03
*****	0.3757E+00	0.4943E-02	0.2953E-02	0.2621E-03
*****	0.3858E+00	0.5076E-02	0.3032E-02	0.2692E-03
*****	0.3960E+00	0.5211E-02	0.3113E-02	0.2765E-03

*****	0.4066E+00	0.5351E-02	0.3197E-02	0.2839E-03
*****	0.4174E+00	0.5493E-02	0.3282E-02	0.2916E-03
*****	0.4284E+00	0.5638E-02	0.3369E-02	0.2993E-03
*****	0.4397E+00	0.5787E-02	0.3458E-02	0.3073E-03
*****	0.4513E+00	0.5940E-02	0.3549E-02	0.3155E-03
*****	0.4632E+00	0.6096E-02	0.3643E-02	0.3239E-03
*****	0.4753E+00	0.6256E-02	0.3739E-02	0.3325E-03
*****	0.4877E+00	0.6419E-02	0.3836E-02	0.3412E-03
*****	0.5003E+00	0.6587E-02	0.3936E-02	0.3502E-03
*****	0.5133E+00	0.6757E-02	0.4038E-02	0.3594E-03
*****	0.5266E+00	0.6933E-02	0.4143E-02	0.3688E-03
*****	0.5402E+00	0.7112E-02	0.4251E-02	0.3784E-03
*****	0.5541E+00	0.7295E-02	0.4360E-02	0.3883E-03
*****	0.5683E+00	0.7482E-02	0.4472E-02	0.3983E-03
*****	0.5829E+00	0.7675E-02	0.4587E-02	0.4087E-03
*****	0.5977E+00	0.7870E-02	0.4704E-02	0.4192E-03
*****	0.6129E+00	0.8071E-02	0.4825E-02	0.4300E-03
*****	0.6284E+00	0.8276E-02	0.4947E-02	0.4410E-03
*****	0.6443E+00	0.8485E-02	0.5073E-02	0.4523E-03
*****	0.6606E+00	0.8700E-02	0.5201E-02	0.4638E-03
*****	0.6771E+00	0.8918E-02	0.5332E-02	0.4756E-03
*****	0.6942E+00	0.9143E-02	0.5467E-02	0.4877E-03
*****	0.7115E+00	0.9372E-02	0.5603E-02	0.5000E-03
*****	0.7292E+00	0.9605E-02	0.5743E-02	0.5126E-03
*****	0.7474E+00	0.9845E-02	0.5887E-02	0.5255E-03
*****	0.7659E+00	0.1009E-01	0.6033E-02	0.5386E-03
*****	0.7849E+00	0.1034E-01	0.6183E-02	0.5521E-03
*****	0.8042E+00	0.1059E-01	0.6335E-02	0.5659E-03
*****	0.8240E+00	0.1086E-01	0.6492E-02	0.5800E-03
*****	0.8441E+00	0.1112E-01	0.6651E-02	0.5943E-03
*****	0.8647E+00	0.1139E-01	0.6814E-02	0.6090E-03
*****	0.8859E+00	0.1167E-01	0.6981E-02	0.6240E-03
*****	0.9073E+00	0.1196E-01	0.7151E-02	0.6393E-03
*****	0.9294E+00	0.1225E-01	0.7325E-02	0.6551E-03
*****	0.9518E+00	0.1254E-01	0.7502E-02	0.6710E-03
*****	0.9747E+00	0.1285E-01	0.7683E-02	0.6874E-03
*****	0.9982E+00	0.1316E-01	0.7869E-02	0.7041E-03
*****	0.1022E+01	0.1347E-01	0.8058E-02	0.7211E-03
*****	0.1047E+01	0.1379E-01	0.8251E-02	0.7386E-03
*****	0.1071E+01	0.1412E-01	0.8448E-02	0.7564E-03
*****	0.1097E+01	0.1446E-01	0.8649E-02	0.7745E-03
*****	0.1123E+01	0.1480E-01	0.8855E-02	0.7931E-03
*****	0.1150E+01	0.1515E-01	0.9066E-02	0.8122E-03
*****	0.1177E+01	0.1551E-01	0.9279E-02	0.8315E-03
*****	0.1204E+01	0.1587E-01	0.9498E-02	0.8512E-03
*****	0.1232E+01	0.1625E-01	0.9721E-02	0.8713E-03
*****	0.1261E+01	0.1663E-01	0.9949E-02	0.8920E-03
*****	0.1291E+01	0.1702E-01	0.1018E-01	0.9130E-03
*****	0.1321E+01	0.1741E-01	0.1042E-01	0.9345E-03
*****	0.1351E+01	0.1782E-01	0.1066E-01	0.9563E-03
*****	0.1382E+01	0.1823E-01	0.1091E-01	0.9786E-03
*****	0.1414E+01	0.1865E-01	0.1116E-01	0.1001E-02
*****	0.1447E+01	0.1908E-01	0.1142E-01	0.1025E-02
*****	0.1480E+01	0.1952E-01	0.1168E-01	0.1049E-02
*****	0.1514E+01	0.1996E-01	0.1195E-01	0.1073E-02
*****	0.1548E+01	0.2042E-01	0.1222E-01	0.1097E-02
*****	0.1583E+01	0.2088E-01	0.1250E-01	0.1123E-02

***** 0.1619E+01 0.2136E-01 0.1278E-01 0.1148E-02
***** 0.1656E+01 0.2184E-01 0.1307E-01 0.1175E-02
***** 0.1693E+01 0.2233E-01 0.1337E-01 0.1201E-02
***** 0.1731E+01 0.2284E-01 0.1367E-01 0.1229E-02
***** 0.1770E+01 0.2335E-01 0.1398E-01 0.1257E-02
***** 0.1810E+01 0.2387E-01 0.1429E-01 0.1285E-02
***** 0.1850E+01 0.2441E-01 0.1461E-01 0.1314E-02
***** 0.1891E+01 0.2495E-01 0.1494E-01 0.1343E-02
***** 0.1933E+01 0.2550E-01 0.1527E-01 0.1374E-02
***** 0.1976E+01 0.2607E-01 0.1561E-01 0.1404E-02
***** 0.2020E+01 0.2665E-01 0.1595E-01 0.1436E-02
***** 0.2064E+01 0.2723E-01 0.1630E-01 0.1468E-02
***** 0.2109E+01 0.2783E-01 0.1666E-01 0.1500E-02
***** 0.2155E+01 0.2844E-01 0.1703E-01 0.1533E-02
***** 0.2202E+01 0.2906E-01 0.1740E-01 0.1567E-02
***** 0.2250E+01 0.2970E-01 0.1778E-01 0.1602E-02
***** 0.2299E+01 0.3034E-01 0.1817E-01 0.1637E-02
***** 0.2349E+01 0.3099E-01 0.1856E-01 0.1672E-02
***** 0.2399E+01 0.3167E-01 0.1896E-01 0.1709E-02
***** 0.2451E+01 0.3235E-01 0.1937E-01 0.1746E-02
***** 0.2504E+01 0.3304E-01 0.1979E-01 0.1784E-02
***** 0.2557E+01 0.3375E-01 0.2021E-01 0.1823E-02
***** 0.2612E+01 0.3447E-01 0.2065E-01 0.1862E-02
***** 0.2667E+01 0.3521E-01 0.2109E-01 0.1902E-02
***** 0.2724E+01 0.3595E-01 0.2153E-01 0.1943E-02
***** 0.2782E+01 0.3672E-01 0.2199E-01 0.1984E-02
***** 0.2840E+01 0.3749E-01 0.2246E-01 0.2027E-02
***** 0.2900E+01 0.3829E-01 0.2293E-01 0.2070E-02
***** 0.2961E+01 0.3909E-01 0.2341E-01 0.2114E-02
***** 0.3023E+01 0.3991E-01 0.2391E-01 0.2158E-02
***** 0.3086E+01 0.4075E-01 0.2441E-01 0.2204E-02
***** 0.3150E+01 0.4159E-01 0.2492E-01 0.2250E-02
***** 0.3216E+01 0.4246E-01 0.2544E-01 0.2298E-02
***** 0.3282E+01 0.4334E-01 0.2596E-01 0.2346E-02
***** 0.3350E+01 0.4423E-01 0.2650E-01 0.2395E-02
***** 0.3419E+01 0.4515E-01 0.2705E-01 0.2445E-02
***** 0.3490E+01 0.4608E-01 0.2761E-01 0.2496E-02
***** 0.3561E+01 0.4702E-01 0.2817E-01 0.2547E-02
***** 0.3634E+01 0.4798E-01 0.2875E-01 0.2600E-02
***** 0.3707E+01 0.4896E-01 0.2934E-01 0.2653E-02
***** 0.3783E+01 0.4996E-01 0.2994E-01 0.2708E-02
***** 0.3860E+01 0.5098E-01 0.3055E-01 0.2763E-02
***** 0.3938E+01 0.5201E-01 0.3116E-01 0.2820E-02
***** 0.4017E+01 0.5306E-01 0.3179E-01 0.2877E-02
***** 0.4098E+01 0.5412E-01 0.3243E-01 0.2936E-02
***** 0.4180E+01 0.5521E-01 0.3309E-01 0.2995E-02
***** 0.4264E+01 0.5632E-01 0.3375E-01 0.3056E-02
***** 0.4349E+01 0.5744E-01 0.3443E-01 0.3117E-02
***** 0.4435E+01 0.5859E-01 0.3511E-01 0.3180E-02
***** 0.4523E+01 0.5975E-01 0.3581E-01 0.3244E-02
***** 0.4612E+01 0.6093E-01 0.3652E-01 0.3309E-02
***** 0.4704E+01 0.6214E-01 0.3724E-01 0.3375E-02
***** 0.4796E+01 0.6337E-01 0.3798E-01 0.3442E-02
***** 0.4890E+01 0.6461E-01 0.3872E-01 0.3510E-02
***** 0.4985E+01 0.6587E-01 0.3948E-01 0.3579E-02
***** 0.5083E+01 0.6716E-01 0.4026E-01 0.3650E-02
***** 0.5182E+01 0.6848E-01 0.4104E-01 0.3722E-02

*****	0.5283E+01	0.6981E-01	0.4184E-01	0.3795E-02
*****	0.5385E+01	0.7115E-01	0.4265E-01	0.3869E-02
*****	0.5489E+01	0.7253E-01	0.4348E-01	0.3945E-02
*****	0.5594E+01	0.7393E-01	0.4432E-01	0.4021E-02
*****	0.5702E+01	0.7536E-01	0.4518E-01	0.4100E-02
*****	0.5811E+01	0.7680E-01	0.4604E-01	0.4179E-02
*****	0.5922E+01	0.7827E-01	0.4692E-01	0.4259E-02
*****	0.6035E+01	0.7976E-01	0.4782E-01	0.4342E-02
*****	0.6150E+01	0.8128E-01	0.4873E-01	0.4425E-02
*****	0.6267E+01	0.8283E-01	0.4966E-01	0.4510E-02
*****	0.6385E+01	0.8440E-01	0.5060E-01	0.4596E-02
*****	0.6505E+01	0.8598E-01	0.5155E-01	0.4683E-02
*****	0.6628E+01	0.8761E-01	0.5253E-01	0.4773E-02
*****	0.6752E+01	0.8925E-01	0.5351E-01	0.4863E-02
*****	0.6878E+01	0.9093E-01	0.5452E-01	0.4955E-02
*****	0.7006E+01	0.9262E-01	0.5554E-01	0.5048E-02
*****	0.7137E+01	0.9435E-01	0.5658E-01	0.5144E-02
*****	0.7269E+01	0.9610E-01	0.5763E-01	0.5240E-02
*****	0.7403E+01	0.9788E-01	0.5870E-01	0.5338E-02
*****	0.7541E+01	0.9970E-01	0.5979E-01	0.5438E-02
*****	0.7679E+01	0.1015E+00	0.6089E-01	0.5539E-02
*****	0.7821E+01	0.1034E+00	0.6201E-01	0.5642E-02
*****	0.7963E+01	0.1053E+00	0.6315E-01	0.5746E-02
*****	0.8109E+01	0.1072E+00	0.6430E-01	0.5852E-02
*****	0.8257E+01	0.1092E+00	0.6548E-01	0.5960E-02
*****	0.8407E+01	0.1112E+00	0.6668E-01	0.6069E-02
*****	0.8559E+01	0.1132E+00	0.6789E-01	0.6180E-02
*****	0.8713E+01	0.1152E+00	0.6911E-01	0.6293E-02
*****	0.8870E+01	0.1173E+00	0.7036E-01	0.6407E-02
*****	0.9030E+01	0.1194E+00	0.7163E-01	0.6524E-02
*****	0.9192E+01	0.1216E+00	0.7292E-01	0.6643E-02
*****	0.9357E+01	0.1237E+00	0.7423E-01	0.6763E-02
*****	0.9523E+01	0.1259E+00	0.7555E-01	0.6884E-02
*****	0.9692E+01	0.1282E+00	0.7690E-01	0.7008E-02
*****	0.9864E+01	0.1305E+00	0.7827E-01	0.7134E-02

MASS OF CONTAMINANT REMAINING IN THE WASTE ZONE

TIME (DAYS)	MASS/AREA (G/M^2)	MASS FRAC. IN WASTE
0.0000000	10175.9765625	0.0020000
0.0000000	10127.8291016	0.0019905
0.0000000	10103.7558594	0.0019858
0.0000000	10079.6816406	0.0019811
0.0000000	10055.6083984	0.0019763
0.0000000	10031.5341797	0.0019716
0.0000000	10007.4609375	0.0019669
0.0000000	9983.3867188	0.0019621
0.0000000	9959.3134766	0.0019574
0.0000000	9935.2392578	0.0019527
0.0000000	9911.1660156	0.0019479
0.0000000	9887.0917969	0.0019432
0.0000000	9863.0185547	0.0019385
0.0000000	9838.9443359	0.0019338
0.0000000	9814.8710938	0.0019290
0.0000000	9790.7968750	0.0019243

0.0000000	9766.7236328	0.0019196
0.0000000	9742.6494141	0.0019148
0.0000000	9718.5761719	0.0019101
0.0000000	9694.5019531	0.0019054
0.0000000	9670.4287109	0.0019006
0.0000000	9646.3544922	0.0018959
0.0000000	9622.2812500	0.0018912
0.0000000	9598.2070312	0.0018864
0.0000000	9574.1337891	0.0018817
0.0000000	9550.0595703	0.0018770
0.0000000	9525.9863281	0.0018722
0.0000000	9501.9130859	0.0018675
0.0000000	9477.8388672	0.0018628
0.0000000	9453.7656250	0.0018581
0.0000000	9429.6914062	0.0018533
0.0000000	9405.6181641	0.0018486
0.0000000	9381.5439453	0.0018439
0.0000000	9357.4707031	0.0018391
0.0000000	9333.3964844	0.0018344
0.0000000	9309.3232422	0.0018297
0.0000000	9285.2490234	0.0018249
0.0000000	9261.1757812	0.0018202
0.0000000	9237.1015625	0.0018155
0.0000000	9213.0283203	0.0018107
0.0000000	9188.9541016	0.0018060
0.0000000	9164.8808594	0.0018013
0.0000000	9140.8066406	0.0017965
0.0000000	9116.7333984	0.0017918
0.0000000	9092.6591797	0.0017871
0.0000000	9068.5859375	0.0017823
0.0000000	9044.5117188	0.0017776
0.0000000	9020.4384766	0.0017729
0.0000000	8996.3642578	0.0017682
0.0000000	8972.2910156	0.0017634
0.0000000	8948.2167969	0.0017587
0.0000000	8924.1435547	0.0017540
0.0000000	8900.0693359	0.0017492
0.0000000	8875.9960938	0.0017445
0.0000000	8851.9218750	0.0017398
0.0000000	8827.8486328	0.0017350
0.0000000	8803.7753906	0.0017303
0.0000000	8779.7011719	0.0017256
0.0000000	8755.6279297	0.0017208
0.0000000	8731.5537109	0.0017161
0.0000000	8707.4804688	0.0017114
0.0000000	8683.4062500	0.0017066
0.0000000	8659.3330078	0.0017019
0.0000000	8635.2587891	0.0016972
0.0000000	8611.1855469	0.0016925
0.0000000	8587.1113281	0.0016877
0.0000000	8563.0380859	0.0016830
0.0000000	8538.9638672	0.0016783
0.0000000	8514.8906250	0.0016735
0.0000000	8490.8164062	0.0016688
0.0000000	8466.7431641	0.0016641
0.0000000	8442.6689453	0.0016593
0.0000000	8418.5957031	0.0016546

0.0000000	8394.5214844	0.0016499
0.0000000	8370.4482422	0.0016451
0.0000000	8346.3740234	0.0016404
0.0000000	8322.3007812	0.0016357
0.0000000	8298.2265625	0.0016309
0.0000000	8274.1533203	0.0016262
0.0000000	8250.0791016	0.0016215
0.0000000	8226.0058594	0.0016167
0.0000000	8201.9316406	0.0016120
0.0000000	8177.8583984	0.0016073
0.0000000	8153.7846680	0.0016026
0.0000000	8129.7109375	0.0015978
0.0000000	8105.6372070	0.0015931
0.0000000	8081.5634766	0.0015884
0.0000000	8057.4897461	0.0015836
0.0000000	8033.4160156	0.0015789
0.0000000	8009.3422852	0.0015742
0.0000000	7985.2685547	0.0015694
0.0000000	7961.1948242	0.0015647
0.0000000	7937.1210938	0.0015600
0.0000000	7913.0473633	0.0015552
0.0000000	7888.9736328	0.0015505
0.0000000	7864.8999023	0.0015458
0.0000000	7840.8261719	0.0015410
0.0000000	7816.7529297	0.0015363
0.0000000	7792.6791992	0.0015316
0.0000000	7768.6054688	0.0015268
0.0000000	7744.5317383	0.0015221
0.0000000	7720.4580078	0.0015174
0.0000000	7696.3842773	0.0015127
0.0000000	7672.3105469	0.0015079
0.0000000	7648.2368164	0.0015032
0.0000000	7624.1630859	0.0014985
0.0000000	7600.0893555	0.0014937
0.0000000	7576.0156250	0.0014890
0.0000000	7551.9418945	0.0014843
0.0000000	7527.8681641	0.0014795
0.0000000	7503.7944336	0.0014748
0.0000000	7479.7207031	0.0014701
0.0000000	7455.6469727	0.0014653
0.0000000	7431.5732422	0.0014606
0.0000000	7407.4995117	0.0014559
0.0000000	7383.4257812	0.0014511
0.0000000	7359.3520508	0.0014464
0.0000000	7335.2783203	0.0014417
0.0000000	7311.2045898	0.0014370
0.0000000	7287.1308594	0.0014322
0.0000000	7263.0571289	0.0014275
0.0000000	7238.9833984	0.0014228
0.0000000	7214.9096680	0.0014180
0.0000000	7190.8359375	0.0014133
0.0000000	7166.7622070	0.0014086
0.0000000	7142.6889648	0.0014038
0.0000000	7118.6152344	0.0013991
0.0000000	7094.5415039	0.0013944
0.0000000	7070.4677734	0.0013896
0.0000000	7046.3940430	0.0013849

0.0000000	7022.3203125	0.0013802
0.0000000	6998.2465820	0.0013754
0.0000000	6974.1728516	0.0013707
0.0000000	6950.0991211	0.0013660
0.0000000	6926.0253906	0.0013612
0.0000000	6901.9516602	0.0013565
0.0000000	6877.8779297	0.0013518
0.0000000	6853.8041992	0.0013471
0.0000000	6829.7304688	0.0013423
0.0000000	6805.6567383	0.0013376
0.0000000	6781.5830078	0.0013329
0.0000000	6757.5092773	0.0013281
0.0000000	6733.4355469	0.0013234
0.0000000	6709.3618164	0.0013187
0.0000000	6685.2880859	0.0013139
0.0000000	6661.2143555	0.0013092
0.0000000	6637.1406250	0.0013045
0.0000000	6613.0668945	0.0012997
0.0000000	6588.9931641	0.0012950
0.0000000	6564.9194336	0.0012903
0.0000000	6540.8457031	0.0012855
0.0000000	6516.7719727	0.0012808
0.0000000	6492.6982422	0.0012761
0.0000000	6468.6250000	0.0012713
0.0000000	6444.5512695	0.0012666
0.0000000	6420.4775391	0.0012619
0.0000000	6396.4038086	0.0012572
0.0000000	6372.3300781	0.0012524
0.0000000	6348.2563477	0.0012477
0.0000000	6324.1826172	0.0012430
0.0000000	6300.1088867	0.0012382
0.0000000	6276.0351562	0.0012335
0.0000000	6251.9614258	0.0012288
0.0000000	6227.8876953	0.0012240
0.0000000	6203.8139648	0.0012193
0.0000000	6179.7402344	0.0012146
0.0000000	6155.6665039	0.0012098
0.0000000	6131.5927734	0.0012051
0.0000000	6107.5190430	0.0012004
0.0000000	6083.4453125	0.0011956
0.0000000	6059.3715820	0.0011909
0.0000000	6035.2978516	0.0011862
0.0000000	6011.2241211	0.0011815
0.0000000	5987.1503906	0.0011767
0.0000000	5963.0766602	0.0011720
0.0000000	5939.0029297	0.0011673
0.0000000	5914.9291992	0.0011625
0.0000000	5890.8554688	0.0011578
0.0000000	5866.7817383	0.0011531
0.0000000	5842.7080078	0.0011483
0.0000000	5818.6342773	0.0011436
0.0000000	5794.5610352	0.0011389
0.0000000	5770.4873047	0.0011341
0.0000000	5746.4135742	0.0011294
0.0000000	5722.3398438	0.0011247
0.0000000	5698.2661133	0.0011199
0.0000000	5674.1923828	0.0011152

0.0000000	5650.1186523	0.0011105
0.0000000	5626.0449219	0.0011057
0.0000000	5601.9711914	0.0011010
0.0000000	5577.8974609	0.0010963
0.0000000	5553.8237305	0.0010916
0.0000000	5529.7500000	0.0010868
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0.0000000	5289.0126953	0.0010395
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0.0000000	5216.7915039	0.0010253
0.0000000	5192.7177734	0.0010206
0.0000000	5168.6440430	0.0010158
0.0000000	5144.5703125	0.0010111
0.0000000	5120.4970703	0.0010064
0.0000000	5096.4233398	0.0010017
0.0000000	5072.3496094	0.0009969
0.0000000	5048.2758789	0.0009922
0.0000000	5024.2021484	0.0009875
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0.0000000	4951.9809570	0.0009733
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0.0000000	4831.6123047	0.0009496
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0.0000000	4759.3911133	0.0009354
0.0000000	4735.3173828	0.0009307
0.0000000	4711.2436523	0.0009260
0.0000000	4687.1699219	0.0009212
0.0000000	4663.0961914	0.0009165
0.0000000	4639.0224609	0.0009118
0.0000000	4614.9487305	0.0009070
0.0000000	4590.8750000	0.0009023
0.0000000	4566.8012695	0.0008976
0.0000000	4542.7275391	0.0008928
0.0000000	4518.6538086	0.0008881
0.0000000	4494.5800781	0.0008834
0.0000000	4470.5063477	0.0008786
0.0000000	4446.4331055	0.0008739
0.0000000	4422.3593750	0.0008692
0.0000000	4398.2856445	0.0008644
0.0000000	4374.2119141	0.0008597
0.0000000	4350.1381836	0.0008550
0.0000000	4326.0644531	0.0008502
0.0000000	4301.9907227	0.0008455

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0.0000000	4253.8432617	0.0008361
0.0000000	4229.7695312	0.0008313
0.0000000	4205.6958008	0.0008266
0.0000000	4181.6220703	0.0008219
0.0000000	4157.5483398	0.0008171
0.0000000	4133.4746094	0.0008124
0.0000000	4109.4008789	0.0008077
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0.0000000	2472.3884277	4.8592541E-004
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0.0000000	2255.7250977	4.4334220E-004
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0.0000000	2207.5776367	4.3387926E-004
0.0000000	2183.5039062	4.2914777E-004
0.0000000	2159.4301758	4.2441630E-004
0.0000000	2135.3564453	4.1968483E-004
0.0000000	2111.2827148	4.1495336E-004
0.0000000	2087.2089844	4.1022190E-004
0.0000000	2063.1352539	4.0549043E-004
0.0000000	2039.0615234	4.0075896E-004
0.0000000	2014.9877930	3.9602746E-004
0.0000000	1990.9141846	3.9129602E-004
0.0000000	1966.8404541	3.8656456E-004
0.0000000	1942.7667236	3.8183309E-004
0.0000000	1918.6929932	3.7710162E-004
0.0000000	1894.6192627	3.7237015E-004
0.0000000	1870.5455322	3.6763866E-004
0.0000000	1846.4718018	3.6290719E-004
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0.0000000	1774.2507324	3.4871281E-004
0.0000000	1750.1770020	3.4398132E-004
0.0000000	1726.1032715	3.3924985E-004
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0.0000000	1677.9558105	3.2978691E-004
0.0000000	1653.8822021	3.2505547E-004
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Infiltration Rate 0.5 inches per year.

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+
+                               VADSAT Version 3.0                               +
+
+   A Monte Carlo Model for Assessing the Effects of Soil   +
+   Contamination on Groundwater Quality                   +
+
+
+                               Developed by:                               +
+   Environmental Systems and Technologies Inc.             +
+   Blacksburg, Virginia                                    +
+   Tel: 703-552-0685, Fax: 703-951-5307                  +
+
+
+                               For                                           +
+   The American Petroleum Institute                         +
+   1995                                                      +
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+ + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + + +

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PROJECT TITLE:Sims # 9 Model for Produced Water Infiltration

SOURCE AND CHEMICAL DATA ****

DEPTHM, MEAN THICKNESS OF WASTE ZONE (m)	=	3.00000
DEPSTD, STD.DEV. OF THICKNESS OF WASTE ZONE	=	0.00000
AREAM, MEAN WASTE ZONE AREA (m ²)	=	900.00000
STDA, STD.DEV. OF WASTE ZONE AREA	=	0.00000
RLWM, MEAN L/W RATIO (-)	=	1.00000
STDRLW, STD.DEV. OF L/W RATIO	=	0.00000
CVRTHM, MEAN VALUE OF COVER THICKNESS (m)	=	0.00000
CVRTHS, STD.DEV. OF COVER THICKNESS	=	0.00000

MEAN MASS FRACTION OF SALT IN WASTE (mg/kg) = 1999.99536
STD OF MASS FRACTION OF SALT IN WASTE = 0.00000

CZEROM, MEAN AQU. PHASE CONC OF SALT (g/m³) = 9422.20020
CZEROS, STD.DEV. OF AQU. PHASE CONC. OF SALT = 0.00000

CHEMICAL SPECIES

Sodium Chloride

HYDROGEOLOGICAL PROPERTIES

** UNSATURATED ZONE INPUT PARAMETERS **

GAMMAM, MEAN UNSAT ZONE DECAY COEF (1/day) = 0.00000
STDGAM, STD.DEV. OF UNSAT ZONE DECAY COEF = 0.00000

UNFOCM, MEAN UNSAT ZONE ORGANIC CARBON FRACTION (-) = 0.00000
UNFOCS, STD.DEV. OF UNSAT ZONE ORGANIC CARBON FRAC. = 0.00000

FKSW, MEAN SAT. CONDUCTIVITY (m/day) = 0.00500
STDFKS, STD.DEV. OF SAT. CONDUCTIVITY = 0.000

DISTM, MEAN DEPTH TO GROUNDWATER (m) = 16.60000
STDDST, STD.DEV. OF DEPTH TO GROUNDWATER = 0.00000

UNPORM, MEAN VADOSE ZONE POROSITY (-) = 0.36000
SUNPOR, STD.DEV. OF VADOSE ZONE POROSITY = 0.00000

PARNM, MEAN VALUE OF VG PARAMETER N (-) = 1.09000
SDPARN, STD.DEV. OF VG PARAMETER N = 0.00000

RESWCM, MEAN RESIDUAL WATER CONTENT (-) = 0.07000
RESWCS, STD.DEV. OF RESIDUAL WATER CONTENT = 0.00000

ALFINM = 0, UNSAT DISPERSIVITY CALCULATED INTERNALLY

** SATURATED ZONE INPUT PARAMETERS **

LAMBW, MEAN SAT. ZONE DECAY COEFF. (1/day) = 0.00000
SLAMB, STD.DEV. OF SAT. ZONE DECAY COEFF. = 0.00000

PORM, MEAN SAT. ZONE POROSITY (-) = 0.20000
STDPOR, STD.DEV. OF SAT. ZONE POROSITY = 0.00000

FOCM, MEAN SAT. ZONE ORG. CARBON FRAC. (-) = 0.00000
STDFOC, STD.DEV. SAT. ZONE ORG. CARBON FRAC. = 0.00000

ALRLTM, MEAN DISPERS. RATIO LONG/TRANSV. (-) = 3.00000
SALRLT, STD.DEV. OF DISP. RATIO LONG/TRANSV. = 0.00000

ALRTVM, MEAN DISPERS. RATIO TRANSV/VERT. (-) = 87.00000
SALRTV, STD.DEV. OF DISP. RATIO TRANSV/VERT. = 0.00000

CONDS, SAT. HYDRAULIC COND. (m/day) = 0.86000
SCONDS, STD.DEV. OF SAT HYDRAULIC COND. = 0.00000

GRADS, HYDRAULIC GRADIENT (m/m) = 0.02100

SGRADS, STD.DEV. OF HYDRAULIC GRADIENT = 0.00000

HMEAN, MEAN AQUIFER THICKNESS (m) = 21.80000

STDH, STD.DEV. OF AQUIFER THICKNESS = 0.00000

QINM, MEAN INFILTRATION RATE (m/day) = 0.00003

QINST, STD.DEV. OF INFILTRATION RATE = 0.00000

LOCATION OF RECEPTORS:

	X (M)	Y (M)	Z (M)
RECEPTOR(1)	5.0	0.0	0.0
RECEPTOR(2)	20.0	0.0	0.0
RECEPTOR(3)	120.0	0.0	0.0

BREAKTHROUGH CURVES

CONCENTRATIONS (MG/L) AT:

TIME WATER TABLE RECEPTORS (in order)
(DAYS) BELOW THE SOURCE

365.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
730.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1095.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1460.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
1825.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2190.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2555.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
2920.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3285.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
3650.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4015.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4380.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
4745.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5110.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5475.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
5840.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6205.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6570.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6935.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7300.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7665.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8030.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8395.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8760.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9125.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9490.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9855.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10220.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10585.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10950.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11315.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11680.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12045.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12410.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00

[illegible]

33580.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
33945.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
34310.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
34675.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
35040.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
35405.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
35770.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
36135.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
36500.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
36865.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
37230.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
37595.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
37960.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
38325.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
38690.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
39055.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
39420.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
39785.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
40150.0000	0.1070E-09	0.3835E-11	0.1280E-11	0.2098E-15
40515.0000	0.1662E-09	0.7074E-11	0.3551E-11	0.2420E-13
40880.0000	0.2561E-09	0.1100E-10	0.5688E-11	0.8961E-13
41245.0000	0.3915E-09	0.1690E-10	0.8803E-11	0.2257E-12
41610.0000	0.5935E-09	0.2573E-10	0.1345E-10	0.3972E-12
41975.0000	0.8934E-09	0.3889E-10	0.2040E-10	0.6580E-12
42340.0000	0.1334E-08	0.5833E-10	0.3069E-10	0.1023E-11
42705.0000	0.1980E-08	0.8688E-10	0.4584E-10	0.1569E-11
43070.0000	0.2915E-08	0.1284E-09	0.6797E-10	0.2368E-11
43435.0000	0.4263E-08	0.1885E-09	0.1001E-09	0.3545E-11
43800.0000	0.6193E-08	0.2750E-09	0.1463E-09	0.5265E-11
44165.0000	0.8937E-08	0.3982E-09	0.2125E-09	0.7763E-11
44530.0000	0.1282E-07	0.5731E-09	0.3067E-09	0.1137E-10
44895.0000	0.1826E-07	0.8195E-09	0.4396E-09	0.1653E-10
45260.0000	0.2587E-07	0.1165E-08	0.6266E-09	0.2389E-10
45625.0000	0.3643E-07	0.1646E-08	0.8873E-09	0.3430E-10
45990.0000	0.5099E-07	0.2311E-08	0.1249E-08	0.4894E-10
46355.0000	0.7099E-07	0.3228E-08	0.1749E-08	0.6943E-10
46720.0000	0.9826E-07	0.4482E-08	0.2434E-08	0.9789E-10
47085.0000	0.1353E-06	0.6191E-08	0.3369E-08	0.1372E-09
47450.0000	0.1853E-06	0.8504E-08	0.4638E-08	0.1913E-09
47815.0000	0.2525E-06	0.1162E-07	0.6354E-08	0.2652E-09
48180.0000	0.3423E-06	0.1580E-07	0.8656E-08	0.3657E-09
48545.0000	0.4618E-06	0.2137E-07	0.1173E-07	0.5016E-09
48910.0000	0.6201E-06	0.2878E-07	0.1583E-07	0.6846E-09
49275.0000	0.8285E-06	0.3856E-07	0.2125E-07	0.9295E-09
49640.0000	0.1102E-05	0.5143E-07	0.2840E-07	0.1256E-08
50005.0000	0.1459E-05	0.6827E-07	0.3777E-07	0.1689E-08
50370.0000	0.1924E-05	0.9025E-07	0.5003E-07	0.2261E-08
50735.0000	0.2525E-05	0.1187E-06	0.6594E-07	0.3011E-08
51100.0000	0.3301E-05	0.1556E-06	0.8656E-07	0.3993E-08
51465.0000	0.4298E-05	0.2031E-06	0.1132E-06	0.5274E-08
51830.0000	0.5571E-05	0.2638E-06	0.1473E-06	0.6933E-08
52195.0000	0.7196E-05	0.3416E-06	0.1910E-06	0.9079E-08
52560.0000	0.9255E-05	0.4403E-06	0.2466E-06	0.1184E-07
52925.0000	0.1186E-04	0.5656E-06	0.3173E-06	0.1537E-07
53290.0000	0.1514E-04	0.7236E-06	0.4066E-06	0.1988E-07
53655.0000	0.1926E-04	0.9224E-06	0.5192E-06	0.2561E-07
54020.0000	0.2443E-04	0.1172E-05	0.6606E-06	0.3288E-07

54385.0000	0.3085E-04	0.1483E-05	0.8373E-06	0.4205E-07
54750.0000	0.3884E-04	0.1871E-05	0.1058E-05	0.5359E-07
55115.0000	0.4873E-04	0.2352E-05	0.1332E-05	0.6802E-07
55480.0000	0.6095E-04	0.2947E-05	0.1671E-05	0.8607E-07
55845.0000	0.7596E-04	0.3680E-05	0.2090E-05	0.1085E-06
56210.0000	0.9441E-04	0.4583E-05	0.2605E-05	0.1364E-06
56575.0000	0.1169E-03	0.5686E-05	0.3237E-05	0.1708E-06
56940.0000	0.1444E-03	0.7034E-05	0.4010E-05	0.2132E-06
57305.0000	0.1778E-03	0.8678E-05	0.4953E-05	0.2654E-06
57670.0000	0.2183E-03	0.1067E-04	0.6098E-05	0.3292E-06
58035.0000	0.2673E-03	0.1309E-04	0.7488E-05	0.4073E-06
58400.0000	0.3262E-03	0.1600E-04	0.9167E-05	0.5022E-06
58765.0000	0.3972E-03	0.1951E-04	0.1119E-04	0.6176E-06
59130.0000	0.4822E-03	0.2373E-04	0.1363E-04	0.7571E-06
59495.0000	0.5838E-03	0.2877E-04	0.1654E-04	0.9255E-06
59860.0000	0.7052E-03	0.3481E-04	0.2003E-04	0.1128E-05
60225.0000	0.8493E-03	0.4199E-04	0.2419E-04	0.1372E-05
60590.0000	0.1021E-02	0.5053E-04	0.2915E-04	0.1664E-05
60955.0000	0.1223E-02	0.6065E-04	0.3502E-04	0.2012E-05
61320.0000	0.1463E-02	0.7263E-04	0.4199E-04	0.2428E-05
61685.0000	0.1745E-02	0.8675E-04	0.5020E-04	0.2921E-05
62050.0000	0.2076E-02	0.1034E-03	0.5988E-04	0.3505E-05
62415.0000	0.2465E-02	0.1229E-03	0.7128E-04	0.4198E-05
62780.0000	0.2920E-02	0.1458E-03	0.8462E-04	0.5014E-05
63145.0000	0.3452E-02	0.1726E-03	0.1003E-03	0.5976E-05
63510.0000	0.4071E-02	0.2038E-03	0.1185E-03	0.7104E-05
63875.0000	0.4792E-02	0.2402E-03	0.1398E-03	0.8428E-05
64240.0000	0.5627E-02	0.2824E-03	0.1645E-03	0.9975E-05
64605.0000	0.6594E-02	0.3313E-03	0.1932E-03	0.1178E-04
64970.0000	0.7713E-02	0.3880E-03	0.2265E-03	0.1388E-04
65335.0000	0.9002E-02	0.4534E-03	0.2649E-03	0.1632E-04
65700.0000	0.1049E-01	0.5289E-03	0.3092E-03	0.1916E-04
66065.0000	0.1219E-01	0.6155E-03	0.3602E-03	0.2243E-04
66430.0000	0.1415E-01	0.7152E-03	0.4189E-03	0.2622E-04
66795.0000	0.1639E-01	0.8293E-03	0.4861E-03	0.3058E-04
67160.0000	0.1895E-01	0.9598E-03	0.5630E-03	0.3560E-04
67525.0000	0.2187E-01	0.1109E-02	0.6511E-03	0.4137E-04
67890.0000	0.2519E-01	0.1279E-02	0.7514E-03	0.4798E-04
68255.0000	0.2897E-01	0.1472E-02	0.8658E-03	0.5554E-04
68620.0000	0.3326E-01	0.1692E-02	0.9956E-03	0.6417E-04
68985.0000	0.3812E-01	0.2014E-02	0.1143E-02	0.7402E-04
69350.0000	0.4361E-01	0.2307E-02	0.1310E-02	0.8522E-04
69715.0000	0.4981E-01	0.2637E-02	0.1499E-02	0.9794E-04
70080.0000	0.5681E-01	0.3011E-02	0.1712E-02	0.1124E-03
70445.0000	0.6468E-01	0.3431E-02	0.1953E-02	0.1287E-03
70810.0000	0.7353E-01	0.3904E-02	0.2224E-02	0.1472E-03
71175.0000	0.8345E-01	0.4435E-02	0.2528E-02	0.1681E-03
71540.0000	0.9459E-01	0.5031E-02	0.2870E-02	0.1916E-03
71905.0000	0.1070E+00	0.5698E-02	0.3252E-02	0.2180E-03
72270.0000	0.1209E+00	0.6444E-02	0.3681E-02	0.2478E-03
72635.0000	0.1365E+00	0.7276E-02	0.4159E-02	0.2811E-03
73000.0000	0.1538E+00	0.8205E-02	0.4693E-02	0.3184E-03
73365.0000	0.1730E+00	0.9243E-02	0.5290E-02	0.3602E-03
73730.0000	0.1944E+00	0.1039E-01	0.5952E-02	0.4068E-03
74095.0000	0.2181E+00	0.1167E-01	0.6688E-02	0.4590E-03
74460.0000	0.2444E+00	0.1309E-01	0.7503E-02	0.5169E-03
74825.0000	0.2735E+00	0.1465E-01	0.8408E-02	0.5814E-03

75190.0000	0.3056E+00	0.1639E-01	0.9408E-02	0.6530E-03
75555.0000	0.3411E+00	0.1830E-01	0.1051E-01	0.7324E-03
75920.0000	0.3802E+00	0.2042E-01	0.1174E-01	0.8204E-03
76285.0000	0.4232E+00	0.2275E-01	0.1308E-01	0.9177E-03
76650.0000	0.4706E+00	0.2531E-01	0.1456E-01	0.1025E-02
77015.0000	0.5226E+00	0.2813E-01	0.1620E-01	0.1144E-02
77380.0000	0.5797E+00	0.3122E-01	0.1799E-01	0.1275E-02
77745.0000	0.6422E+00	0.3461E-01	0.1995E-01	0.1419E-02
78110.0000	0.7106E+00	0.3833E-01	0.2210E-01	0.1577E-02
78475.0000	0.7855E+00	0.4239E-01	0.2446E-01	0.1751E-02
78840.0000	0.8673E+00	0.4684E-01	0.2704E-01	0.1941E-02
79205.0000	0.9565E+00	0.5169E-01	0.2986E-01	0.2150E-02
79570.0000	0.1054E+01	0.5697E-01	0.3293E-01	0.2379E-02
79935.0000	0.1160E+01	0.6274E-01	0.3628E-01	0.2629E-02
80300.0000	0.1275E+01	0.6901E-01	0.3992E-01	0.2902E-02
80665.0000	0.1400E+01	0.7582E-01	0.4389E-01	0.3199E-02
81030.0000	0.1535E+01	0.8323E-01	0.4820E-01	0.3524E-02
81395.0000	0.1682E+01	0.9125E-01	0.5287E-01	0.3877E-02
81760.0000	0.1842E+01	0.9995E-01	0.5793E-01	0.4261E-02
82125.0000	0.2014E+01	0.1094E+00	0.6343E-01	0.4678E-02
82490.0000	0.2201E+01	0.1196E+00	0.6937E-01	0.5130E-02
82855.0000	0.2402E+01	0.1306E+00	0.7579E-01	0.5621E-02
83220.0000	0.2619E+01	0.1424E+00	0.8272E-01	0.6151E-02
83585.0000	0.2853E+01	0.1553E+00	0.9021E-01	0.6726E-02
83950.0000	0.3105E+01	0.1691E+00	0.9828E-01	0.7348E-02
84315.0000	0.3376E+01	0.1840E+00	0.1070E+00	0.8018E-02
84680.0000	0.3668E+01	0.1999E+00	0.1163E+00	0.8741E-02
85045.0000	0.3981E+01	0.2171E+00	0.1264E+00	0.9521E-02
85410.0000	0.4317E+01	0.2356E+00	0.1372E+00	0.1036E-01
85775.0000	0.4677E+01	0.2554E+00	0.1487E+00	0.1126E-01
86140.0000	0.5064E+01	0.2766E+00	0.1612E+00	0.1224E-01
86505.0000	0.5476E+01	0.2993E+00	0.1745E+00	0.1328E-01
86870.0000	0.5919E+01	0.3237E+00	0.1887E+00	0.1440E-01
87235.0000	0.6391E+01	0.3497E+00	0.2040E+00	0.1560E-01
87600.0000	0.6896E+01	0.3775E+00	0.2203E+00	0.1688E-01
87965.0000	0.7433E+01	0.4071E+00	0.2377E+00	0.1826E-01
88330.0000	0.8007E+01	0.4387E+00	0.2562E+00	0.1973E-01
88695.0000	0.8618E+01	0.4724E+00	0.2760E+00	0.2130E-01
89060.0000	0.9269E+01	0.5083E+00	0.2971E+00	0.2298E-01
89425.0000	0.9961E+01	0.5465E+00	0.3195E+00	0.2477E-01
89790.0000	0.1070E+02	0.5871E+00	0.3434E+00	0.2668E-01
90155.0000	0.1148E+02	0.6303E+00	0.3688E+00	0.2871E-01
90520.0000	0.1231E+02	0.6762E+00	0.3957E+00	0.3088E-01
90885.0000	0.1319E+02	0.7248E+00	0.4243E+00	0.3318E-01
91250.0000	0.1412E+02	0.7763E+00	0.4547E+00	0.3563E-01
91615.0000	0.1510E+02	0.8309E+00	0.4868E+00	0.3822E-01
91980.0000	0.1615E+02	0.8887E+00	0.5208E+00	0.4098E-01
92345.0000	0.1725E+02	0.9500E+00	0.5569E+00	0.4391E-01
92710.0000	0.1842E+02	0.1015E+01	0.5950E+00	0.4701E-01
93075.0000	0.1965E+02	0.1083E+01	0.6353E+00	0.5029E-01
93440.0000	0.2096E+02	0.1155E+01	0.6778E+00	0.5376E-01
93805.0000	0.2233E+02	0.1231E+01	0.7227E+00	0.5743E-01
94170.0000	0.2378E+02	0.1312E+01	0.7701E+00	0.6132E-01
94535.0000	0.2530E+02	0.1396E+01	0.8201E+00	0.6542E-01
94900.0000	0.2690E+02	0.1485E+01	0.8727E+00	0.6974E-01
95265.0000	0.2859E+02	0.1579E+01	0.9281E+00	0.7431E-01
95630.0000	0.3037E+02	0.1678E+01	0.9864E+00	0.7912E-01

95995.0000	0.3223E+02	0.1782E+01	0.1048E+01	0.8419E-01
96360.0000	0.3419E+02	0.1891E+01	0.1112E+01	0.8952E-01
96725.0000	0.3625E+02	0.2005E+01	0.1180E+01	0.9513E-01
97090.0000	0.3840E+02	0.2125E+01	0.1251E+01	0.1010E+00
97455.0000	0.4067E+02	0.2251E+01	0.1325E+01	0.1072E+00
97820.0000	0.4304E+02	0.2383E+01	0.1403E+01	0.1138E+00
98185.0000	0.4551E+02	0.2521E+01	0.1485E+01	0.1206E+00
98550.0000	0.4811E+02	0.2666E+01	0.1571E+01	0.1277E+00
98915.0000	0.5083E+02	0.2817E+01	0.1660E+01	0.1353E+00
99280.0000	0.5367E+02	0.2975E+01	0.1754E+01	0.1431E+00
99645.0000	0.5663E+02	0.3141E+01	0.1852E+01	0.1514E+00
*****	0.5973E+02	0.3314E+01	0.1954E+01	0.1600E+00
*****	0.6296E+02	0.3494E+01	0.2061E+01	0.1690E+00
*****	0.6633E+02	0.3683E+01	0.2173E+01	0.1785E+00
*****	0.6985E+02	0.3879E+01	0.2290E+01	0.1883E+00
*****	0.7351E+02	0.4084E+01	0.2411E+01	0.1986E+00
*****	0.7732E+02	0.4297E+01	0.2537E+01	0.2093E+00
*****	0.8129E+02	0.4519E+01	0.2669E+01	0.2205E+00
*****	0.8543E+02	0.4750E+01	0.2806E+01	0.2322E+00
*****	0.8973E+02	0.4991E+01	0.2949E+01	0.2444E+00
*****	0.9419E+02	0.5240E+01	0.3098E+01	0.2571E+00
*****	0.9883E+02	0.5500E+01	0.3252E+01	0.2703E+00
*****	0.1037E+03	0.5770E+01	0.3412E+01	0.2840E+00
*****	0.1087E+03	0.6051E+01	0.3579E+01	0.2983E+00
*****	0.1138E+03	0.6341E+01	0.3752E+01	0.3131E+00
*****	0.1192E+03	0.6642E+01	0.3931E+01	0.3286E+00
*****	0.1248E+03	0.6955E+01	0.4117E+01	0.3446E+00
*****	0.1306E+03	0.7280E+01	0.4310E+01	0.3612E+00
*****	0.1366E+03	0.7615E+01	0.4509E+01	0.3784E+00
*****	0.1428E+03	0.7962E+01	0.4716E+01	0.3963E+00
*****	0.1492E+03	0.8322E+01	0.4930E+01	0.4148E+00
*****	0.1558E+03	0.8694E+01	0.5151E+01	0.4340E+00
*****	0.1627E+03	0.9079E+01	0.5381E+01	0.4539E+00
*****	0.1697E+03	0.9477E+01	0.5617E+01	0.4745E+00
*****	0.1770E+03	0.9887E+01	0.5862E+01	0.4958E+00
*****	0.1846E+03	0.1031E+02	0.6114E+01	0.5178E+00
*****	0.1924E+03	0.1075E+02	0.6376E+01	0.5406E+00
*****	0.2004E+03	0.1120E+02	0.6645E+01	0.5641E+00
*****	0.2087E+03	0.1167E+02	0.6922E+01	0.5884E+00
*****	0.2172E+03	0.1215E+02	0.7208E+01	0.6135E+00
*****	0.2260E+03	0.1264E+02	0.7504E+01	0.6393E+00
*****	0.2351E+03	0.1315E+02	0.7808E+01	0.6661E+00
*****	0.2444E+03	0.1368E+02	0.8121E+01	0.6936E+00
*****	0.2540E+03	0.1422E+02	0.8443E+01	0.7219E+00
*****	0.2639E+03	0.1477E+02	0.8775E+01	0.7512E+00
*****	0.2740E+03	0.1534E+02	0.9117E+01	0.7813E+00
*****	0.2845E+03	0.1593E+02	0.9467E+01	0.8123E+00
*****	0.2952E+03	0.1654E+02	0.9828E+01	0.8441E+00
*****	0.3062E+03	0.1716E+02	0.1020E+02	0.8769E+00
*****	0.3175E+03	0.1779E+02	0.1058E+02	0.9106E+00
*****	0.3291E+03	0.1845E+02	0.1097E+02	0.9453E+00
*****	0.3410E+03	0.1912E+02	0.1137E+02	0.9809E+00
*****	0.3532E+03	0.1981E+02	0.1178E+02	0.1017E+01
*****	0.3657E+03	0.2051E+02	0.1220E+02	0.1055E+01
*****	0.3785E+03	0.2123E+02	0.1264E+02	0.1094E+01
*****	0.3916E+03	0.2198E+02	0.1308E+02	0.1133E+01
*****	0.4050E+03	0.2273E+02	0.1353E+02	0.1174E+01

*****	0.4188E+03	0.2351E+02	0.1400E+02	0.1215E+01
*****	0.4329E+03	0.2431E+02	0.1447E+02	0.1258E+01
*****	0.4473E+03	0.2512E+02	0.1496E+02	0.1301E+01
*****	0.4620E+03	0.2595E+02	0.1546E+02	0.1346E+01
*****	0.4770E+03	0.2680E+02	0.1597E+02	0.1392E+01
*****	0.4924E+03	0.2767E+02	0.1649E+02	0.1438E+01
*****	0.5081E+03	0.2856E+02	0.1702E+02	0.1486E+01
*****	0.5242E+03	0.2947E+02	0.1756E+02	0.1535E+01
*****	0.5405E+03	0.3039E+02	0.1812E+02	0.1585E+01
*****	0.5572E+03	0.3134E+02	0.1868E+02	0.1636E+01
*****	0.5742E+03	0.3230E+02	0.1926E+02	0.1688E+01
*****	0.5916E+03	0.3328E+02	0.1985E+02	0.1742E+01
*****	0.6093E+03	0.3429E+02	0.2045E+02	0.1796E+01
*****	0.6274E+03	0.3531E+02	0.2106E+02	0.1852E+01
*****	0.6458E+03	0.3635E+02	0.2169E+02	0.1908E+01
*****	0.6645E+03	0.3741E+02	0.2232E+02	0.1966E+01
*****	0.6836E+03	0.3849E+02	0.2297E+02	0.2025E+01
*****	0.7030E+03	0.3959E+02	0.2363E+02	0.2085E+01
*****	0.7227E+03	0.4071E+02	0.2430E+02	0.2146E+01
*****	0.7427E+03	0.4185E+02	0.2498E+02	0.2208E+01
*****	0.7631E+03	0.4300E+02	0.2568E+02	0.2271E+01
*****	0.7839E+03	0.4418E+02	0.2639E+02	0.2336E+01
*****	0.8050E+03	0.4538E+02	0.2710E+02	0.2402E+01
*****	0.8263E+03	0.4659E+02	0.2783E+02	0.2468E+01
*****	0.8481E+03	0.4782E+02	0.2857E+02	0.2536E+01
*****	0.8702E+03	0.4908E+02	0.2932E+02	0.2605E+01
*****	0.8925E+03	0.5035E+02	0.3009E+02	0.2675E+01
*****	0.9152E+03	0.5164E+02	0.3086E+02	0.2746E+01
*****	0.9382E+03	0.5294E+02	0.3165E+02	0.2818E+01
*****	0.9615E+03	0.5427E+02	0.3244E+02	0.2892E+01
*****	0.9853E+03	0.5561E+02	0.3325E+02	0.2966E+01
*****	0.1009E+04	0.5698E+02	0.3407E+02	0.3042E+01
*****	0.1033E+04	0.5836E+02	0.3490E+02	0.3118E+01
*****	0.1058E+04	0.5975E+02	0.3574E+02	0.3196E+01
*****	0.1083E+04	0.6117E+02	0.3659E+02	0.3274E+01
*****	0.1108E+04	0.6260E+02	0.3745E+02	0.3354E+01
*****	0.1134E+04	0.6405E+02	0.3832E+02	0.3435E+01
*****	0.1159E+04	0.6551E+02	0.3920E+02	0.3516E+01
*****	0.1185E+04	0.6699E+02	0.4010E+02	0.3599E+01
*****	0.1212E+04	0.6850E+02	0.4100E+02	0.3683E+01
*****	0.1238E+04	0.7001E+02	0.4191E+02	0.3768E+01
*****	0.1265E+04	0.7154E+02	0.4283E+02	0.3853E+01
*****	0.1292E+04	0.7308E+02	0.4376E+02	0.3940E+01
*****	0.1320E+04	0.7464E+02	0.4470E+02	0.4027E+01
*****	0.1347E+04	0.7621E+02	0.4565E+02	0.4116E+01
*****	0.1375E+04	0.7780E+02	0.4660E+02	0.4205E+01
*****	0.1403E+04	0.7940E+02	0.4757E+02	0.4295E+01
*****	0.1432E+04	0.8102E+02	0.4854E+02	0.4386E+01
*****	0.1460E+04	0.8264E+02	0.4952E+02	0.4478E+01
*****	0.1489E+04	0.8429E+02	0.5051E+02	0.4571E+01
*****	0.1518E+04	0.8594E+02	0.5151E+02	0.4664E+01
*****	0.1547E+04	0.8761E+02	0.5251E+02	0.4758E+01
*****	0.1576E+04	0.8928E+02	0.5352E+02	0.4853E+01
*****	0.1606E+04	0.9097E+02	0.5454E+02	0.4949E+01
*****	0.1636E+04	0.9267E+02	0.5556E+02	0.5046E+01
*****	0.1666E+04	0.9438E+02	0.5659E+02	0.5143E+01
*****	0.1696E+04	0.9609E+02	0.5763E+02	0.5240E+01

*****	0.1726E+04	0.9782E+02	0.5867E+02	0.5339E+01
*****	0.1757E+04	0.9956E+02	0.5972E+02	0.5438E+01
*****	0.1787E+04	0.1013E+03	0.6077E+02	0.5537E+01
*****	0.1818E+04	0.1031E+03	0.6183E+02	0.5637E+01
*****	0.1848E+04	0.1048E+03	0.6289E+02	0.5738E+01
*****	0.1879E+04	0.1066E+03	0.6396E+02	0.5839E+01
*****	0.1910E+04	0.1084E+03	0.6503E+02	0.5941E+01
*****	0.1942E+04	0.1101E+03	0.6610E+02	0.6043E+01
*****	0.1973E+04	0.1119E+03	0.6718E+02	0.6145E+01
*****	0.2004E+04	0.1137E+03	0.6826E+02	0.6248E+01
*****	0.2035E+04	0.1155E+03	0.6934E+02	0.6351E+01
*****	0.2067E+04	0.1173E+03	0.7043E+02	0.6455E+01
*****	0.2098E+04	0.1191E+03	0.7151E+02	0.6558E+01
*****	0.2130E+04	0.1209E+03	0.7260E+02	0.6662E+01
*****	0.2161E+04	0.1227E+03	0.7369E+02	0.6766E+01
*****	0.2193E+04	0.1245E+03	0.7478E+02	0.6871E+01
*****	0.2224E+04	0.1263E+03	0.7588E+02	0.6976E+01
*****	0.2256E+04	0.1281E+03	0.7697E+02	0.7080E+01
*****	0.2287E+04	0.1299E+03	0.7806E+02	0.7185E+01
*****	0.2319E+04	0.1317E+03	0.7915E+02	0.7290E+01
*****	0.2350E+04	0.1335E+03	0.8024E+02	0.7395E+01
*****	0.2381E+04	0.1353E+03	0.8133E+02	0.7500E+01
*****	0.2413E+04	0.1371E+03	0.8242E+02	0.7604E+01
*****	0.2444E+04	0.1389E+03	0.8350E+02	0.7709E+01
*****	0.2475E+04	0.1407E+03	0.8459E+02	0.7814E+01
*****	0.2506E+04	0.1425E+03	0.8567E+02	0.7918E+01
*****	0.2537E+04	0.1443E+03	0.8675E+02	0.8023E+01
*****	0.2568E+04	0.1460E+03	0.8782E+02	0.8127E+01
*****	0.2599E+04	0.1478E+03	0.8889E+02	0.8231E+01
*****	0.2630E+04	0.1496E+03	0.8996E+02	0.8334E+01
*****	0.2660E+04	0.1513E+03	0.9103E+02	0.8438E+01
*****	0.2691E+04	0.1531E+03	0.9208E+02	0.8540E+01
*****	0.2721E+04	0.1548E+03	0.9314E+02	0.8643E+01
*****	0.2751E+04	0.1565E+03	0.9419E+02	0.8745E+01
*****	0.2781E+04	0.1583E+03	0.9523E+02	0.8847E+01
*****	0.2811E+04	0.1600E+03	0.9627E+02	0.8948E+01
*****	0.2840E+04	0.1617E+03	0.9730E+02	0.9049E+01
*****	0.2870E+04	0.1634E+03	0.9832E+02	0.9149E+01
*****	0.2899E+04	0.1650E+03	0.9934E+02	0.9249E+01
*****	0.2928E+04	0.1667E+03	0.1003E+03	0.9348E+01
*****	0.2956E+04	0.1683E+03	0.1013E+03	0.9446E+01
*****	0.2985E+04	0.1700E+03	0.1023E+03	0.9544E+01
*****	0.3013E+04	0.1716E+03	0.1033E+03	0.9641E+01
*****	0.3041E+04	0.1732E+03	0.1043E+03	0.9737E+01
*****	0.3068E+04	0.1748E+03	0.1053E+03	0.9832E+01
*****	0.3096E+04	0.1764E+03	0.1062E+03	0.9927E+01
*****	0.3123E+04	0.1779E+03	0.1072E+03	0.1002E+02
*****	0.3150E+04	0.1795E+03	0.1081E+03	0.1011E+02
*****	0.3176E+04	0.1810E+03	0.1090E+03	0.1021E+02
*****	0.3202E+04	0.1825E+03	0.1100E+03	0.1030E+02
*****	0.3228E+04	0.1840E+03	0.1109E+03	0.1039E+02
*****	0.3253E+04	0.1855E+03	0.1118E+03	0.1048E+02
*****	0.3279E+04	0.1869E+03	0.1126E+03	0.1056E+02
*****	0.3303E+04	0.1884E+03	0.1135E+03	0.1065E+02
*****	0.3328E+04	0.1898E+03	0.1144E+03	0.1074E+02
*****	0.3352E+04	0.1912E+03	0.1152E+03	0.1082E+02
*****	0.3376E+04	0.1925E+03	0.1161E+03	0.1091E+02

*****	0.3399E+04	0.1939E+03	0.1169E+03	0.1099E+02
*****	0.3422E+04	0.1952E+03	0.1177E+03	0.1107E+02
*****	0.3445E+04	0.1965E+03	0.1185E+03	0.1115E+02
*****	0.3467E+04	0.1978E+03	0.1193E+03	0.1123E+02
*****	0.3489E+04	0.1991E+03	0.1200E+03	0.1131E+02
*****	0.3510E+04	0.2003E+03	0.1208E+03	0.1138E+02
*****	0.3531E+04	0.2015E+03	0.1215E+03	0.1146E+02
*****	0.3552E+04	0.2027E+03	0.1223E+03	0.1153E+02
*****	0.3572E+04	0.2039E+03	0.1230E+03	0.1161E+02
*****	0.3591E+04	0.2050E+03	0.1237E+03	0.1168E+02
*****	0.3611E+04	0.2062E+03	0.1244E+03	0.1175E+02
*****	0.3629E+04	0.2072E+03	0.1250E+03	0.1182E+02
*****	0.3648E+04	0.2083E+03	0.1257E+03	0.1188E+02
*****	0.3666E+04	0.2094E+03	0.1263E+03	0.1195E+02
*****	0.3683E+04	0.2104E+03	0.1269E+03	0.1201E+02
*****	0.3700E+04	0.2114E+03	0.1276E+03	0.1208E+02
*****	0.3717E+04	0.2123E+03	0.1281E+03	0.1214E+02
*****	0.3733E+04	0.2133E+03	0.1287E+03	0.1220E+02
*****	0.3748E+04	0.2142E+03	0.1293E+03	0.1226E+02
*****	0.3764E+04	0.2151E+03	0.1298E+03	0.1231E+02
*****	0.3778E+04	0.2159E+03	0.1303E+03	0.1237E+02
*****	0.3792E+04	0.2167E+03	0.1309E+03	0.1242E+02
*****	0.3806E+04	0.2175E+03	0.1313E+03	0.1247E+02
*****	0.3819E+04	0.2183E+03	0.1318E+03	0.1252E+02
*****	0.3832E+04	0.2191E+03	0.1323E+03	0.1257E+02
*****	0.3844E+04	0.2198E+03	0.1327E+03	0.1262E+02
*****	0.3856E+04	0.2205E+03	0.1332E+03	0.1267E+02
*****	0.3867E+04	0.2211E+03	0.1336E+03	0.1271E+02
*****	0.3878E+04	0.2218E+03	0.1339E+03	0.1275E+02
*****	0.3888E+04	0.2224E+03	0.1343E+03	0.1279E+02
*****	0.3898E+04	0.2229E+03	0.1347E+03	0.1283E+02
*****	0.3907E+04	0.2235E+03	0.1350E+03	0.1287E+02
*****	0.3916E+04	0.2240E+03	0.1353E+03	0.1291E+02
*****	0.3924E+04	0.2245E+03	0.1356E+03	0.1294E+02
*****	0.3932E+04	0.2250E+03	0.1359E+03	0.1297E+02
*****	0.3939E+04	0.2254E+03	0.1362E+03	0.1300E+02
*****	0.3946E+04	0.2258E+03	0.1365E+03	0.1303E+02
*****	0.3952E+04	0.2262E+03	0.1367E+03	0.1306E+02
*****	0.3958E+04	0.2265E+03	0.1369E+03	0.1309E+02
*****	0.3963E+04	0.2268E+03	0.1371E+03	0.1311E+02
*****	0.3968E+04	0.2271E+03	0.1373E+03	0.1313E+02
*****	0.3972E+04	0.2274E+03	0.1375E+03	0.1315E+02
*****	0.3976E+04	0.2276E+03	0.1376E+03	0.1317E+02
*****	0.3979E+04	0.2278E+03	0.1377E+03	0.1319E+02
*****	0.3982E+04	0.2280E+03	0.1379E+03	0.1321E+02
*****	0.3984E+04	0.2282E+03	0.1380E+03	0.1322E+02
*****	0.3986E+04	0.2283E+03	0.1380E+03	0.1323E+02
*****	0.3988E+04	0.2284E+03	0.1381E+03	0.1325E+02
*****	0.3988E+04	0.2284E+03	0.1381E+03	0.1326E+02
*****	0.3989E+04	0.2285E+03	0.1382E+03	0.1326E+02
*****	0.3989E+04	0.2285E+03	0.1382E+03	0.1327E+02
*****	0.3988E+04	0.2285E+03	0.1382E+03	0.1327E+02
*****	0.3987E+04	0.2284E+03	0.1382E+03	0.1328E+02
*****	0.3985E+04	0.2283E+03	0.1381E+03	0.1328E+02
*****	0.3983E+04	0.2282E+03	0.1381E+03	0.1328E+02
*****	0.3981E+04	0.2281E+03	0.1380E+03	0.1328E+02
*****	0.3978E+04	0.2280E+03	0.1379E+03	0.1327E+02

*****	0.3975E+04	0.2278E+03	0.1378E+03	0.1327E+02
*****	0.3971E+04	0.2276E+03	0.1377E+03	0.1326E+02
*****	0.3966E+04	0.2274E+03	0.1376E+03	0.1325E+02
*****	0.3962E+04	0.2271E+03	0.1374E+03	0.1324E+02
*****	0.3957E+04	0.2268E+03	0.1373E+03	0.1323E+02
*****	0.3951E+04	0.2265E+03	0.1371E+03	0.1322E+02
*****	0.3945E+04	0.2262E+03	0.1369E+03	0.1321E+02
*****	0.3938E+04	0.2258E+03	0.1367E+03	0.1319E+02
*****	0.3932E+04	0.2254E+03	0.1365E+03	0.1317E+02
*****	0.3924E+04	0.2250E+03	0.1362E+03	0.1315E+02
*****	0.3916E+04	0.2246E+03	0.1360E+03	0.1313E+02
*****	0.3908E+04	0.2242E+03	0.1357E+03	0.1311E+02
*****	0.3900E+04	0.2237E+03	0.1354E+03	0.1309E+02
*****	0.3891E+04	0.2232E+03	0.1351E+03	0.1307E+02
*****	0.3881E+04	0.2227E+03	0.1348E+03	0.1304E+02
*****	0.3872E+04	0.2221E+03	0.1345E+03	0.1301E+02
*****	0.3862E+04	0.2216E+03	0.1342E+03	0.1299E+02
*****	0.3851E+04	0.2210E+03	0.1338E+03	0.1296E+02
*****	0.3840E+04	0.2204E+03	0.1335E+03	0.1293E+02
*****	0.3829E+04	0.2197E+03	0.1331E+03	0.1289E+02
*****	0.3817E+04	0.2191E+03	0.1327E+03	0.1286E+02
*****	0.3806E+04	0.2184E+03	0.1323E+03	0.1282E+02
*****	0.3793E+04	0.2177E+03	0.1319E+03	0.1279E+02
*****	0.3781E+04	0.2170E+03	0.1315E+03	0.1275E+02
*****	0.3768E+04	0.2163E+03	0.1310E+03	0.1271E+02
*****	0.3754E+04	0.2155E+03	0.1306E+03	0.1267E+02
*****	0.3741E+04	0.2148E+03	0.1301E+03	0.1263E+02
*****	0.3727E+04	0.2140E+03	0.1296E+03	0.1259E+02
*****	0.3712E+04	0.2132E+03	0.1292E+03	0.1255E+02
*****	0.3698E+04	0.2123E+03	0.1287E+03	0.1250E+02
*****	0.3683E+04	0.2115E+03	0.1282E+03	0.1246E+02
*****	0.3668E+04	0.2106E+03	0.1276E+03	0.1241E+02
*****	0.3652E+04	0.2098E+03	0.1271E+03	0.1236E+02
*****	0.3637E+04	0.2089E+03	0.1266E+03	0.1232E+02
*****	0.3621E+04	0.2080E+03	0.1260E+03	0.1227E+02
*****	0.3604E+04	0.2070E+03	0.1255E+03	0.1222E+02
*****	0.3588E+04	0.2061E+03	0.1249E+03	0.1217E+02
*****	0.3571E+04	0.2051E+03	0.1243E+03	0.1211E+02
*****	0.3554E+04	0.2042E+03	0.1238E+03	0.1206E+02
*****	0.3537E+04	0.2032E+03	0.1232E+03	0.1201E+02
*****	0.3519E+04	0.2022E+03	0.1226E+03	0.1195E+02
*****	0.3501E+04	0.2012E+03	0.1220E+03	0.1189E+02
*****	0.3483E+04	0.2002E+03	0.1214E+03	0.1184E+02
*****	0.3465E+04	0.1991E+03	0.1207E+03	0.1178E+02
*****	0.3446E+04	0.1981E+03	0.1201E+03	0.1172E+02
*****	0.3428E+04	0.1970E+03	0.1195E+03	0.1166E+02
*****	0.3409E+04	0.1959E+03	0.1188E+03	0.1160E+02
*****	0.3390E+04	0.1948E+03	0.1182E+03	0.1154E+02
*****	0.3370E+04	0.1937E+03	0.1175E+03	0.1148E+02
*****	0.3351E+04	0.1926E+03	0.1168E+03	0.1142E+02
*****	0.3331E+04	0.1915E+03	0.1162E+03	0.1136E+02
*****	0.3312E+04	0.1904E+03	0.1155E+03	0.1129E+02
*****	0.3292E+04	0.1893E+03	0.1148E+03	0.1123E+02
*****	0.3271E+04	0.1881E+03	0.1141E+03	0.1116E+02
*****	0.3251E+04	0.1869E+03	0.1134E+03	0.1110E+02
*****	0.3231E+04	0.1858E+03	0.1127E+03	0.1103E+02
*****	0.3210E+04	0.1846E+03	0.1120E+03	0.1097E+02

*****	0.3189E+04	0.1834E+03	0.1113E+03	0.1090E+02
*****	0.3169E+04	0.1822E+03	0.1106E+03	0.1083E+02
*****	0.3148E+04	0.1810E+03	0.1098E+03	0.1076E+02
*****	0.3127E+04	0.1798E+03	0.1091E+03	0.1070E+02
*****	0.3105E+04	0.1786E+03	0.1084E+03	0.1063E+02
*****	0.3084E+04	0.1774E+03	0.1077E+03	0.1056E+02
*****	0.3063E+04	0.1762E+03	0.1069E+03	0.1049E+02
*****	0.3041E+04	0.1750E+03	0.1062E+03	0.1042E+02
*****	0.3019E+04	0.1737E+03	0.1054E+03	0.1035E+02
*****	0.2998E+04	0.1725E+03	0.1047E+03	0.1028E+02
*****	0.2976E+04	0.1712E+03	0.1039E+03	0.1020E+02
*****	0.2954E+04	0.1700E+03	0.1032E+03	0.1013E+02
*****	0.2932E+04	0.1687E+03	0.1024E+03	0.1006E+02
*****	0.2910E+04	0.1675E+03	0.1017E+03	0.9989E+01
*****	0.2888E+04	0.1662E+03	0.1009E+03	0.9916E+01
*****	0.2866E+04	0.1649E+03	0.1001E+03	0.9844E+01
*****	0.2844E+04	0.1637E+03	0.9936E+02	0.9771E+01
*****	0.2822E+04	0.1624E+03	0.9859E+02	0.9697E+01
*****	0.2799E+04	0.1611E+03	0.9783E+02	0.9624E+01
*****	0.2777E+04	0.1599E+03	0.9705E+02	0.9550E+01
*****	0.2755E+04	0.1586E+03	0.9628E+02	0.9477E+01
*****	0.2732E+04	0.1573E+03	0.9551E+02	0.9403E+01
*****	0.2710E+04	0.1560E+03	0.9473E+02	0.9329E+01
*****	0.2688E+04	0.1547E+03	0.9396E+02	0.9255E+01
*****	0.2665E+04	0.1535E+03	0.9318E+02	0.9180E+01
*****	0.2643E+04	0.1522E+03	0.9241E+02	0.9106E+01
*****	0.2621E+04	0.1509E+03	0.9163E+02	0.9032E+01
*****	0.2598E+04	0.1496E+03	0.9086E+02	0.8957E+01
*****	0.2576E+04	0.1483E+03	0.9008E+02	0.8883E+01
*****	0.2553E+04	0.1470E+03	0.8931E+02	0.8808E+01
*****	0.2531E+04	0.1458E+03	0.8853E+02	0.8734E+01
*****	0.2509E+04	0.1445E+03	0.8776E+02	0.8659E+01
*****	0.2486E+04	0.1432E+03	0.8698E+02	0.8584E+01
*****	0.2464E+04	0.1419E+03	0.8621E+02	0.8510E+01
*****	0.2442E+04	0.1406E+03	0.8543E+02	0.8435E+01
*****	0.2419E+04	0.1394E+03	0.8466E+02	0.8361E+01
*****	0.2397E+04	0.1381E+03	0.8389E+02	0.8287E+01
*****	0.2375E+04	0.1368E+03	0.8312E+02	0.8212E+01
*****	0.2353E+04	0.1356E+03	0.8235E+02	0.8138E+01
*****	0.2331E+04	0.1343E+03	0.8159E+02	0.8064E+01
*****	0.2309E+04	0.1330E+03	0.8082E+02	0.7990E+01
*****	0.2287E+04	0.1318E+03	0.8006E+02	0.7917E+01
*****	0.2265E+04	0.1305E+03	0.7930E+02	0.7843E+01
*****	0.2243E+04	0.1293E+03	0.7854E+02	0.7769E+01
*****	0.2221E+04	0.1280E+03	0.7778E+02	0.7696E+01
*****	0.2199E+04	0.1268E+03	0.7702E+02	0.7623E+01
*****	0.2178E+04	0.1255E+03	0.7627E+02	0.7550E+01
*****	0.2156E+04	0.1243E+03	0.7552E+02	0.7477E+01
*****	0.2135E+04	0.1230E+03	0.7477E+02	0.7404E+01
*****	0.2113E+04	0.1218E+03	0.7403E+02	0.7332E+01
*****	0.2092E+04	0.1206E+03	0.7328E+02	0.7260E+01
*****	0.2071E+04	0.1194E+03	0.7254E+02	0.7188E+01
*****	0.2049E+04	0.1181E+03	0.7180E+02	0.7116E+01
*****	0.2028E+04	0.1169E+03	0.7107E+02	0.7045E+01
*****	0.2007E+04	0.1157E+03	0.7034E+02	0.6974E+01
*****	0.1986E+04	0.1145E+03	0.6961E+02	0.6903E+01
*****	0.1966E+04	0.1133E+03	0.6889E+02	0.6832E+01

*****	0.1945E+04	0.1121E+03	0.6816E+02	0.6762E+01
*****	0.1924E+04	0.1110E+03	0.6745E+02	0.6692E+01
*****	0.1904E+04	0.1098E+03	0.6673E+02	0.6622E+01
*****	0.1883E+04	0.1086E+03	0.6602E+02	0.6553E+01
*****	0.1863E+04	0.1074E+03	0.6531E+02	0.6484E+01
*****	0.1843E+04	0.1063E+03	0.6461E+02	0.6415E+01
*****	0.1823E+04	0.1051E+03	0.6391E+02	0.6347E+01
*****	0.1803E+04	0.1040E+03	0.6321E+02	0.6279E+01
*****	0.1783E+04	0.1028E+03	0.6252E+02	0.6211E+01
*****	0.1763E+04	0.1017E+03	0.6183E+02	0.6144E+01
*****	0.1743E+04	0.1006E+03	0.6114E+02	0.6077E+01
*****	0.1724E+04	0.9943E+02	0.6046E+02	0.6010E+01
*****	0.1704E+04	0.9832E+02	0.5979E+02	0.5944E+01
*****	0.1685E+04	0.9721E+02	0.5911E+02	0.5878E+01
*****	0.1666E+04	0.9611E+02	0.5844E+02	0.5813E+01
*****	0.1647E+04	0.9501E+02	0.5778E+02	0.5748E+01
*****	0.1628E+04	0.9392E+02	0.5712E+02	0.5683E+01
*****	0.1609E+04	0.9284E+02	0.5646E+02	0.5619E+01
*****	0.1591E+04	0.9176E+02	0.5581E+02	0.5555E+01
*****	0.1572E+04	0.9070E+02	0.5516E+02	0.5491E+01
*****	0.1554E+04	0.8964E+02	0.5452E+02	0.5428E+01
*****	0.1535E+04	0.8859E+02	0.5388E+02	0.5366E+01
*****	0.1517E+04	0.8755E+02	0.5325E+02	0.5304E+01
*****	0.1499E+04	0.8651E+02	0.5262E+02	0.5242E+01
*****	0.1481E+04	0.8548E+02	0.5200E+02	0.5181E+01
*****	0.1463E+04	0.8446E+02	0.5137E+02	0.5120E+01
*****	0.1446E+04	0.8344E+02	0.5076E+02	0.5059E+01
*****	0.1428E+04	0.8244E+02	0.5015E+02	0.4999E+01
*****	0.1411E+04	0.8144E+02	0.4954E+02	0.4939E+01
*****	0.1394E+04	0.8045E+02	0.4894E+02	0.4880E+01
*****	0.1377E+04	0.7946E+02	0.4834E+02	0.4822E+01
*****	0.1360E+04	0.7849E+02	0.4775E+02	0.4763E+01
*****	0.1343E+04	0.7752E+02	0.4716E+02	0.4705E+01
*****	0.1326E+04	0.7656E+02	0.4658E+02	0.4648E+01
*****	0.1310E+04	0.7561E+02	0.4600E+02	0.4591E+01
*****	0.1293E+04	0.7467E+02	0.4543E+02	0.4535E+01
*****	0.1277E+04	0.7373E+02	0.4486E+02	0.4479E+01
*****	0.1261E+04	0.7280E+02	0.4430E+02	0.4423E+01
*****	0.1245E+04	0.7188E+02	0.4374E+02	0.4368E+01
*****	0.1229E+04	0.7097E+02	0.4318E+02	0.4313E+01
*****	0.1214E+04	0.7007E+02	0.4264E+02	0.4259E+01
*****	0.1198E+04	0.6917E+02	0.4209E+02	0.4205E+01
*****	0.1183E+04	0.6828E+02	0.4155E+02	0.4152E+01
*****	0.1167E+04	0.6740E+02	0.4102E+02	0.4099E+01
*****	0.1152E+04	0.6653E+02	0.4049E+02	0.4047E+01
*****	0.1137E+04	0.6567E+02	0.3996E+02	0.3995E+01
*****	0.1122E+04	0.6481E+02	0.3944E+02	0.3944E+01
*****	0.1108E+04	0.6396E+02	0.3893E+02	0.3893E+01
*****	0.1093E+04	0.6312E+02	0.3842E+02	0.3843E+01
*****	0.1079E+04	0.6229E+02	0.3791E+02	0.3793E+01
*****	0.1064E+04	0.6147E+02	0.3741E+02	0.3743E+01
*****	0.1050E+04	0.6065E+02	0.3692E+02	0.3694E+01
*****	0.1036E+04	0.5984E+02	0.3643E+02	0.3646E+01
*****	0.1022E+04	0.5904E+02	0.3594E+02	0.3597E+01
*****	0.1008E+04	0.5825E+02	0.3546E+02	0.3550E+01
*****	0.9948E+03	0.5746E+02	0.3498E+02	0.3502E+01
*****	0.9813E+03	0.5669E+02	0.3451E+02	0.3456E+01

*****	0.9680E+03	0.5592E+02	0.3404E+02	0.3410E+01
*****	0.9548E+03	0.5516E+02	0.3358E+02	0.3364E+01
*****	0.9417E+03	0.5440E+02	0.3312E+02	0.3318E+01
*****	0.9288E+03	0.5366E+02	0.3267E+02	0.3273E+01
*****	0.9160E+03	0.5292E+02	0.3222E+02	0.3229E+01
*****	0.9034E+03	0.5219E+02	0.3178E+02	0.3185E+01
*****	0.8909E+03	0.5147E+02	0.3134E+02	0.3141E+01
*****	0.8785E+03	0.5076E+02	0.3090E+02	0.3098E+01
*****	0.8662E+03	0.5005E+02	0.3048E+02	0.3056E+01
*****	0.8541E+03	0.4935E+02	0.3005E+02	0.3013E+01
*****	0.8421E+03	0.4866E+02	0.2963E+02	0.2972E+01
*****	0.8303E+03	0.4798E+02	0.2921E+02	0.2930E+01
*****	0.8185E+03	0.4730E+02	0.2880E+02	0.2889E+01
*****	0.8069E+03	0.4663E+02	0.2840E+02	0.2849E+01
*****	0.7955E+03	0.4597E+02	0.2799E+02	0.2809E+01
*****	0.7841E+03	0.4531E+02	0.2760E+02	0.2770E+01
*****	0.7729E+03	0.4467E+02	0.2720E+02	0.2731E+01
*****	0.7618E+03	0.4403E+02	0.2681E+02	0.2692E+01
*****	0.7509E+03	0.4340E+02	0.2643E+02	0.2654E+01
*****	0.7400E+03	0.4277E+02	0.2605E+02	0.2616E+01
*****	0.7293E+03	0.4215E+02	0.2567E+02	0.2578E+01
*****	0.7188E+03	0.4155E+02	0.2530E+02	0.2542E+01
*****	0.7083E+03	0.4094E+02	0.2494E+02	0.2505E+01
*****	0.6980E+03	0.4035E+02	0.2457E+02	0.2469E+01
*****	0.6878E+03	0.3976E+02	0.2421E+02	0.2433E+01
*****	0.6776E+03	0.3917E+02	0.2386E+02	0.2398E+01
*****	0.6677E+03	0.3860E+02	0.2351E+02	0.2363E+01
*****	0.6578E+03	0.3803E+02	0.2316E+02	0.2328E+01
*****	0.6481E+03	0.3747E+02	0.2282E+02	0.2294E+01
*****	0.6385E+03	0.3691E+02	0.2249E+02	0.2261E+01
*****	0.6290E+03	0.3636E+02	0.2215E+02	0.2228E+01
*****	0.6196E+03	0.3582E+02	0.2182E+02	0.2195E+01
*****	0.6103E+03	0.3529E+02	0.2150E+02	0.2162E+01
*****	0.6012E+03	0.3476E+02	0.2117E+02	0.2130E+01
*****	0.5922E+03	0.3424E+02	0.2086E+02	0.2099E+01
*****	0.5832E+03	0.3372E+02	0.2054E+02	0.2067E+01
*****	0.5744E+03	0.3322E+02	0.2024E+02	0.2036E+01
*****	0.5657E+03	0.3271E+02	0.1993E+02	0.2006E+01
*****	0.5571E+03	0.3221E+02	0.1963E+02	0.1976E+01
*****	0.5486E+03	0.3173E+02	0.1933E+02	0.1946E+01
*****	0.5402E+03	0.3124E+02	0.1903E+02	0.1916E+01
*****	0.5320E+03	0.3077E+02	0.1875E+02	0.1888E+01
*****	0.5238E+03	0.3029E+02	0.1846E+02	0.1859E+01
*****	0.5157E+03	0.2983E+02	0.1817E+02	0.1830E+01
*****	0.5078E+03	0.2937E+02	0.1790E+02	0.1803E+01
*****	0.4999E+03	0.2892E+02	0.1762E+02	0.1775E+01
*****	0.4922E+03	0.2847E+02	0.1735E+02	0.1748E+01
*****	0.4846E+03	0.2803E+02	0.1708E+02	0.1721E+01
*****	0.4770E+03	0.2759E+02	0.1681E+02	0.1694E+01
*****	0.4696E+03	0.2716E+02	0.1655E+02	0.1668E+01
*****	0.4622E+03	0.2674E+02	0.1629E+02	0.1642E+01
*****	0.4550E+03	0.2632E+02	0.1604E+02	0.1617E+01
*****	0.4479E+03	0.2591E+02	0.1579E+02	0.1592E+01
*****	0.4408E+03	0.2550E+02	0.1554E+02	0.1567E+01
*****	0.4338E+03	0.2510E+02	0.1530E+02	0.1542E+01
*****	0.4270E+03	0.2470E+02	0.1505E+02	0.1518E+01
*****	0.4202E+03	0.2431E+02	0.1481E+02	0.1494E+01

*****	0.4135E+03	0.2392E+02	0.1458E+02	0.1471E+01
*****	0.4069E+03	0.2354E+02	0.1435E+02	0.1448E+01
*****	0.4005E+03	0.2317E+02	0.1412E+02	0.1425E+01
*****	0.3940E+03	0.2280E+02	0.1389E+02	0.1402E+01
*****	0.3877E+03	0.2243E+02	0.1367E+02	0.1380E+01
*****	0.3815E+03	0.2207E+02	0.1345E+02	0.1358E+01
*****	0.3753E+03	0.2172E+02	0.1324E+02	0.1336E+01
*****	0.3693E+03	0.2137E+02	0.1302E+02	0.1315E+01
*****	0.3633E+03	0.2102E+02	0.1281E+02	0.1294E+01
*****	0.3574E+03	0.2068E+02	0.1261E+02	0.1273E+01
*****	0.3516E+03	0.2035E+02	0.1240E+02	0.1253E+01
*****	0.3459E+03	0.2002E+02	0.1220E+02	0.1232E+01
*****	0.3403E+03	0.1969E+02	0.1200E+02	0.1213E+01
*****	0.3347E+03	0.1937E+02	0.1181E+02	0.1193E+01
*****	0.3292E+03	0.1905E+02	0.1161E+02	0.1173E+01
*****	0.3238E+03	0.1874E+02	0.1142E+02	0.1154E+01
*****	0.3185E+03	0.1843E+02	0.1124E+02	0.1136E+01
*****	0.3133E+03	0.1813E+02	0.1105E+02	0.1117E+01
*****	0.3081E+03	0.1783E+02	0.1087E+02	0.1099E+01
*****	0.3030E+03	0.1754E+02	0.1069E+02	0.1081E+01
*****	0.2980E+03	0.1725E+02	0.1051E+02	0.1063E+01
*****	0.2930E+03	0.1696E+02	0.1034E+02	0.1045E+01
*****	0.2881E+03	0.1668E+02	0.1017E+02	0.1028E+01
*****	0.2834E+03	0.1640E+02	0.1000E+02	0.1011E+01
*****	0.2786E+03	0.1613E+02	0.9833E+01	0.9945E+00
*****	0.2740E+03	0.1586E+02	0.9669E+01	0.9780E+00
*****	0.2694E+03	0.1559E+02	0.9507E+01	0.9617E+00
*****	0.2648E+03	0.1533E+02	0.9348E+01	0.9457E+00
*****	0.2604E+03	0.1507E+02	0.9191E+01	0.9300E+00
*****	0.2560E+03	0.1482E+02	0.9036E+01	0.9144E+00
*****	0.2517E+03	0.1457E+02	0.8885E+01	0.8991E+00
*****	0.2474E+03	0.1432E+02	0.8734E+01	0.8840E+00
*****	0.2432E+03	0.1408E+02	0.8586E+01	0.8691E+00
*****	0.2391E+03	0.1384E+02	0.8442E+01	0.8545E+00
*****	0.2350E+03	0.1361E+02	0.8298E+01	0.8401E+00
*****	0.2311E+03	0.1338E+02	0.8157E+01	0.8259E+00
*****	0.2271E+03	0.1315E+02	0.8018E+01	0.8119E+00
*****	0.2232E+03	0.1292E+02	0.7881E+01	0.7981E+00
*****	0.2194E+03	0.1270E+02	0.7747E+01	0.7846E+00
*****	0.2156E+03	0.1248E+02	0.7614E+01	0.7712E+00
*****	0.2119E+03	0.1227E+02	0.7484E+01	0.7581E+00
*****	0.2083E+03	0.1206E+02	0.7355E+01	0.7451E+00
*****	0.2047E+03	0.1185E+02	0.7228E+01	0.7323E+00
*****	0.2012E+03	0.1165E+02	0.7104E+01	0.7198E+00
*****	0.1977E+03	0.1145E+02	0.6981E+01	0.7074E+00
*****	0.1943E+03	0.1125E+02	0.6861E+01	0.6953E+00
*****	0.1909E+03	0.1105E+02	0.6741E+01	0.6833E+00
*****	0.1876E+03	0.1086E+02	0.6624E+01	0.6714E+00
*****	0.1843E+03	0.1067E+02	0.6509E+01	0.6598E+00
*****	0.1811E+03	0.1049E+02	0.6396E+01	0.6484E+00
*****	0.1779E+03	0.1030E+02	0.6284E+01	0.6371E+00
*****	0.1748E+03	0.1012E+02	0.6175E+01	0.6261E+00
*****	0.1717E+03	0.9945E+01	0.6066E+01	0.6152E+00
*****	0.1687E+03	0.9771E+01	0.5960E+01	0.6045E+00
*****	0.1658E+03	0.9600E+01	0.5856E+01	0.5939E+00
*****	0.1628E+03	0.9430E+01	0.5752E+01	0.5835E+00
*****	0.1600E+03	0.9265E+01	0.5651E+01	0.5733E+00

*****	0.1571E+03	0.9101E+01	0.5551E+01	0.5632E+00
*****	0.1544E+03	0.8940E+01	0.5454E+01	0.5533E+00
*****	0.1516E+03	0.8782E+01	0.5357E+01	0.5436E+00
*****	0.1489E+03	0.8626E+01	0.5262E+01	0.5340E+00
*****	0.1463E+03	0.8473E+01	0.5169E+01	0.5246E+00
*****	0.1437E+03	0.8322E+01	0.5077E+01	0.5153E+00
*****	0.1411E+03	0.8174E+01	0.4987E+01	0.5062E+00
*****	0.1386E+03	0.8028E+01	0.4898E+01	0.4972E+00
*****	0.1361E+03	0.7884E+01	0.4810E+01	0.4883E+00
*****	0.1337E+03	0.7744E+01	0.4724E+01	0.4796E+00
*****	0.1313E+03	0.7605E+01	0.4639E+01	0.4711E+00
*****	0.1289E+03	0.7469E+01	0.4556E+01	0.4627E+00
*****	0.1266E+03	0.7334E+01	0.4474E+01	0.4544E+00
*****	0.1243E+03	0.7202E+01	0.4394E+01	0.4463E+00
*****	0.1221E+03	0.7072E+01	0.4315E+01	0.4383E+00
*****	0.1199E+03	0.6944E+01	0.4237E+01	0.4304E+00
*****	0.1177E+03	0.6819E+01	0.4160E+01	0.4226E+00
*****	0.1156E+03	0.6696E+01	0.4085E+01	0.4150E+00
*****	0.1135E+03	0.6574E+01	0.4011E+01	0.4075E+00
*****	0.1114E+03	0.6455E+01	0.3939E+01	0.4002E+00
*****	0.1094E+03	0.6337E+01	0.3867E+01	0.3929E+00
*****	0.1074E+03	0.6222E+01	0.3796E+01	0.3858E+00
*****	0.1054E+03	0.6109E+01	0.3727E+01	0.3788E+00
*****	0.1035E+03	0.5997E+01	0.3659E+01	0.3719E+00
*****	0.1016E+03	0.5888E+01	0.3593E+01	0.3652E+00
*****	0.9975E+02	0.5780E+01	0.3527E+01	0.3585E+00
*****	0.9791E+02	0.5674E+01	0.3462E+01	0.3520E+00
*****	0.9612E+02	0.5570E+01	0.3399E+01	0.3456E+00
*****	0.9435E+02	0.5467E+01	0.3336E+01	0.3392E+00
*****	0.9262E+02	0.5367E+01	0.3275E+01	0.3330E+00
*****	0.9090E+02	0.5268E+01	0.3215E+01	0.3269E+00
*****	0.8922E+02	0.5170E+01	0.3155E+01	0.3209E+00
*****	0.8758E+02	0.5075E+01	0.3097E+01	0.3150E+00
*****	0.8595E+02	0.4981E+01	0.3040E+01	0.3092E+00
*****	0.8436E+02	0.4889E+01	0.2984E+01	0.3035E+00
*****	0.8279E+02	0.4798E+01	0.2928E+01	0.2979E+00
*****	0.8125E+02	0.4709E+01	0.2874E+01	0.2924E+00
*****	0.7974E+02	0.4621E+01	0.2820E+01	0.2870E+00
*****	0.7826E+02	0.4535E+01	0.2768E+01	0.2817E+00
*****	0.7680E+02	0.4451E+01	0.2717E+01	0.2765E+00
*****	0.7536E+02	0.4368E+01	0.2666E+01	0.2713E+00
*****	0.7395E+02	0.4286E+01	0.2616E+01	0.2663E+00
*****	0.7257E+02	0.4206E+01	0.2567E+01	0.2613E+00
*****	0.7121E+02	0.4127E+01	0.2519E+01	0.2564E+00
*****	0.6987E+02	0.4050E+01	0.2472E+01	0.2516E+00
*****	0.6856E+02	0.3974E+01	0.2425E+01	0.2469E+00
*****	0.6726E+02	0.3899E+01	0.2380E+01	0.2423E+00
*****	0.6600E+02	0.3826E+01	0.2335E+01	0.2378E+00
*****	0.6475E+02	0.3754E+01	0.2291E+01	0.2333E+00
*****	0.6353E+02	0.3682E+01	0.2248E+01	0.2289E+00
*****	0.6233E+02	0.3613E+01	0.2205E+01	0.2246E+00
*****	0.6115E+02	0.3545E+01	0.2164E+01	0.2204E+00
*****	0.5999E+02	0.3478E+01	0.2123E+01	0.2162E+00
*****	0.5885E+02	0.3412E+01	0.2082E+01	0.2121E+00
*****	0.5773E+02	0.3347E+01	0.2043E+01	0.2081E+00
*****	0.5664E+02	0.3283E+01	0.2004E+01	0.2042E+00
*****	0.5556E+02	0.3221E+01	0.1966E+01	0.2003E+00

*****	0.5450E+02	0.3160E+01	0.1929E+01	0.1965E+00
*****	0.5346E+02	0.3099E+01	0.1892E+01	0.1928E+00
*****	0.5244E+02	0.3040E+01	0.1856E+01	0.1891E+00
*****	0.5143E+02	0.2982E+01	0.1820E+01	0.1855E+00
*****	0.5045E+02	0.2925E+01	0.1785E+01	0.1820E+00
*****	0.4948E+02	0.2869E+01	0.1751E+01	0.1785E+00
*****	0.4853E+02	0.2814E+01	0.1718E+01	0.1751E+00
*****	0.4760E+02	0.2760E+01	0.1685E+01	0.1718E+00
*****	0.4668E+02	0.2707E+01	0.1652E+01	0.1685E+00
*****	0.4578E+02	0.2655E+01	0.1621E+01	0.1652E+00
*****	0.4490E+02	0.2603E+01	0.1589E+01	0.1621E+00
*****	0.4403E+02	0.2553E+01	0.1559E+01	0.1590E+00
*****	0.4318E+02	0.2504E+01	0.1529E+01	0.1559E+00
*****	0.4235E+02	0.2456E+01	0.1499E+01	0.1529E+00
*****	0.4153E+02	0.2408E+01	0.1470E+01	0.1499E+00
*****	0.4072E+02	0.2361E+01	0.1442E+01	0.1470E+00
*****	0.3993E+02	0.2316E+01	0.1414E+01	0.1442E+00
*****	0.3916E+02	0.2271E+01	0.1386E+01	0.1414E+00
*****	0.3840E+02	0.2227E+01	0.1359E+01	0.1387E+00
*****	0.3765E+02	0.2183E+01	0.1333E+01	0.1360E+00
*****	0.3691E+02	0.2141E+01	0.1307E+01	0.1334E+00
*****	0.3620E+02	0.2099E+01	0.1282E+01	0.1308E+00
*****	0.3549E+02	0.2058E+01	0.1257E+01	0.1282E+00
*****	0.3480E+02	0.2018E+01	0.1232E+01	0.1257E+00
*****	0.3412E+02	0.1978E+01	0.1208E+01	0.1233E+00
*****	0.3345E+02	0.1940E+01	0.1184E+01	0.1209E+00
*****	0.3279E+02	0.1902E+01	0.1161E+01	0.1185E+00
*****	0.3215E+02	0.1864E+01	0.1138E+01	0.1162E+00
*****	0.3152E+02	0.1828E+01	0.1116E+01	0.1139E+00
*****	0.3090E+02	0.1792E+01	0.1094E+01	0.1117E+00
*****	0.3029E+02	0.1757E+01	0.1073E+01	0.1095E+00
*****	0.2969E+02	0.1722E+01	0.1052E+01	0.1074E+00
*****	0.2911E+02	0.1688E+01	0.1031E+01	0.1053E+00
*****	0.2853E+02	0.1655E+01	0.1011E+01	0.1032E+00
*****	0.2797E+02	0.1622E+01	0.9906E+00	0.1012E+00
*****	0.2742E+02	0.1590E+01	0.9710E+00	0.9917E-01
*****	0.2687E+02	0.1559E+01	0.9518E+00	0.9722E-01
*****	0.2634E+02	0.1528E+01	0.9330E+00	0.9530E-01
*****	0.2582E+02	0.1498E+01	0.9145E+00	0.9341E-01
*****	0.2531E+02	0.1468E+01	0.8964E+00	0.9157E-01
*****	0.2480E+02	0.1439E+01	0.8785E+00	0.8975E-01
*****	0.2431E+02	0.1410E+01	0.8611E+00	0.8798E-01
*****	0.2383E+02	0.1382E+01	0.8440E+00	0.8624E-01
*****	0.2335E+02	0.1355E+01	0.8272E+00	0.8452E-01
*****	0.2289E+02	0.1328E+01	0.8108E+00	0.8285E-01
*****	0.2243E+02	0.1301E+01	0.7945E+00	0.8119E-01
*****	0.2198E+02	0.1275E+01	0.7787E+00	0.7958E-01
*****	0.2154E+02	0.1250E+01	0.7631E+00	0.7799E-01
*****	0.2111E+02	0.1225E+01	0.7479E+00	0.7644E-01
*****	0.2069E+02	0.1200E+01	0.7329E+00	0.7492E-01
*****	0.2027E+02	0.1176E+01	0.7182E+00	0.7342E-01
*****	0.1987E+02	0.1152E+01	0.7039E+00	0.7195E-01
*****	0.1947E+02	0.1129E+01	0.6897E+00	0.7051E-01
*****	0.1908E+02	0.1107E+01	0.6759E+00	0.6910E-01
*****	0.1869E+02	0.1084E+01	0.6623E+00	0.6771E-01
*****	0.1831E+02	0.1062E+01	0.6489E+00	0.6635E-01
*****	0.1795E+02	0.1041E+01	0.6359E+00	0.6502E-01

*****	0.1758E+02	0.1020E+01	0.6230E+00	0.6371E-01
*****	0.1723E+02	0.9996E+00	0.6105E+00	0.6243E-01
*****	0.1688E+02	0.9794E+00	0.5982E+00	0.6118E-01
*****	0.1654E+02	0.9596E+00	0.5861E+00	0.5994E-01
*****	0.1620E+02	0.9401E+00	0.5742E+00	0.5873E-01
*****	0.1588E+02	0.9211E+00	0.5626E+00	0.5755E-01
*****	0.1555E+02	0.9024E+00	0.5512E+00	0.5639E-01
*****	0.1524E+02	0.8842E+00	0.5401E+00	0.5525E-01
*****	0.1493E+02	0.8662E+00	0.5291E+00	0.5413E-01
*****	0.1462E+02	0.8486E+00	0.5183E+00	0.5303E-01
*****	0.1433E+02	0.8313E+00	0.5078E+00	0.5196E-01
*****	0.1404E+02	0.8144E+00	0.4975E+00	0.5090E-01
*****	0.1375E+02	0.7978E+00	0.4874E+00	0.4987E-01
*****	0.1347E+02	0.7815E+00	0.4774E+00	0.4885E-01
*****	0.1319E+02	0.7656E+00	0.4677E+00	0.4786E-01
*****	0.1292E+02	0.7500E+00	0.4581E+00	0.4688E-01
*****	0.1266E+02	0.7346E+00	0.4488E+00	0.4593E-01
*****	0.1240E+02	0.7196E+00	0.4396E+00	0.4500E-01
*****	0.1215E+02	0.7049E+00	0.4306E+00	0.4407E-01
*****	0.1190E+02	0.6904E+00	0.4217E+00	0.4317E-01
*****	0.1165E+02	0.6763E+00	0.4131E+00	0.4229E-01
*****	0.1142E+02	0.6624E+00	0.4047E+00	0.4143E-01
*****	0.1118E+02	0.6489E+00	0.3964E+00	0.4058E-01
*****	0.1095E+02	0.6355E+00	0.3882E+00	0.3975E-01
*****	0.1072E+02	0.6224E+00	0.3802E+00	0.3893E-01
*****	0.1050E+02	0.6096E+00	0.3724E+00	0.3813E-01
*****	0.1029E+02	0.5971E+00	0.3648E+00	0.3735E-01
*****	0.1008E+02	0.5847E+00	0.3572E+00	0.3658E-01
*****	0.9868E+01	0.5727E+00	0.3499E+00	0.3583E-01
*****	0.9664E+01	0.5609E+00	0.3426E+00	0.3509E-01
*****	0.9464E+01	0.5492E+00	0.3356E+00	0.3437E-01
*****	0.9269E+01	0.5379E+00	0.3286E+00	0.3366E-01
*****	0.9076E+01	0.5268E+00	0.3218E+00	0.3297E-01
*****	0.8889E+01	0.5159E+00	0.3152E+00	0.3229E-01
*****	0.8704E+01	0.5052E+00	0.3086E+00	0.3161E-01
*****	0.8523E+01	0.4947E+00	0.3023E+00	0.3096E-01
*****	0.8348E+01	0.4845E+00	0.2960E+00	0.3033E-01
*****	0.8174E+01	0.4744E+00	0.2899E+00	0.2970E-01
*****	0.8004E+01	0.4646E+00	0.2838E+00	0.2908E-01
*****	0.7837E+01	0.4549E+00	0.2779E+00	0.2848E-01
*****	0.7674E+01	0.4454E+00	0.2721E+00	0.2789E-01
*****	0.7514E+01	0.4361E+00	0.2665E+00	0.2730E-01
*****	0.7356E+01	0.4270E+00	0.2609E+00	0.2674E-01
*****	0.7204E+01	0.4182E+00	0.2555E+00	0.2618E-01
*****	0.7054E+01	0.4094E+00	0.2501E+00	0.2564E-01
*****	0.6905E+01	0.4008E+00	0.2449E+00	0.2510E-01
*****	0.6761E+01	0.3924E+00	0.2398E+00	0.2458E-01
*****	0.6620E+01	0.3843E+00	0.2348E+00	0.2407E-01
*****	0.6481E+01	0.3762E+00	0.2299E+00	0.2356E-01
*****	0.6345E+01	0.3683E+00	0.2250E+00	0.2307E-01
*****	0.6212E+01	0.3606E+00	0.2203E+00	0.2259E-01
*****	0.6081E+01	0.3530E+00	0.2157E+00	0.2212E-01
*****	0.5954E+01	0.3456E+00	0.2112E+00	0.2165E-01
*****	0.5829E+01	0.3384E+00	0.2068E+00	0.2120E-01
*****	0.5707E+01	0.3313E+00	0.2024E+00	0.2075E-01
*****	0.5586E+01	0.3243E+00	0.1981E+00	0.2032E-01
*****	0.5468E+01	0.3174E+00	0.1940E+00	0.1989E-01

*****	0.5354E+01	0.3108E+00	0.1899E+00	0.1948E-01
*****	0.5240E+01	0.3042E+00	0.1859E+00	0.1906E-01
*****	0.5129E+01	0.2978E+00	0.1820E+00	0.1867E-01
*****	0.5021E+01	0.2915E+00	0.1781E+00	0.1827E-01
*****	0.4915E+01	0.2853E+00	0.1744E+00	0.1788E-01
*****	0.4812E+01	0.2794E+00	0.1707E+00	0.1751E-01
*****	0.4711E+01	0.2735E+00	0.1671E+00	0.1714E-01
*****	0.4610E+01	0.2676E+00	0.1636E+00	0.1678E-01
*****	0.4513E+01	0.2620E+00	0.1601E+00	0.1642E-01
*****	0.4417E+01	0.2564E+00	0.1567E+00	0.1608E-01
*****	0.4323E+01	0.2510E+00	0.1534E+00	0.1574E-01
*****	0.4231E+01	0.2457E+00	0.1501E+00	0.1540E-01
*****	0.4142E+01	0.2404E+00	0.1469E+00	0.1508E-01
*****	0.4053E+01	0.2353E+00	0.1438E+00	0.1476E-01
*****	0.3967E+01	0.2303E+00	0.1408E+00	0.1444E-01
*****	0.3883E+01	0.2254E+00	0.1378E+00	0.1414E-01
*****	0.3801E+01	0.2207E+00	0.1349E+00	0.1384E-01
*****	0.3720E+01	0.2160E+00	0.1320E+00	0.1354E-01
*****	0.3640E+01	0.2113E+00	0.1292E+00	0.1326E-01
*****	0.3562E+01	0.2068E+00	0.1264E+00	0.1297E-01
*****	0.3485E+01	0.2024E+00	0.1237E+00	0.1270E-01
*****	0.3412E+01	0.1981E+00	0.1211E+00	0.1243E-01
*****	0.3338E+01	0.1938E+00	0.1185E+00	0.1216E-01
*****	0.3267E+01	0.1897E+00	0.1159E+00	0.1190E-01
*****	0.3197E+01	0.1857E+00	0.1135E+00	0.1165E-01
*****	0.3130E+01	0.1817E+00	0.1111E+00	0.1140E-01
*****	0.3062E+01	0.1778E+00	0.1087E+00	0.1116E-01
*****	0.2996E+01	0.1740E+00	0.1063E+00	0.1092E-01
*****	0.2932E+01	0.1702E+00	0.1040E+00	0.1068E-01
*****	0.2869E+01	0.1666E+00	0.1018E+00	0.1046E-01
*****	0.2808E+01	0.1630E+00	0.9966E-01	0.1023E-01
*****	0.2748E+01	0.1596E+00	0.9752E-01	0.1001E-01
*****	0.2688E+01	0.1561E+00	0.9541E-01	0.9797E-02
*****	0.2630E+01	0.1527E+00	0.9333E-01	0.9585E-02
*****	0.2574E+01	0.1495E+00	0.9135E-01	0.9378E-02
*****	0.2518E+01	0.1462E+00	0.8937E-01	0.9180E-02
*****	0.2464E+01	0.1431E+00	0.8745E-01	0.8982E-02
*****	0.2411E+01	0.1400E+00	0.8559E-01	0.8791E-02
*****	0.2358E+01	0.1370E+00	0.8372E-01	0.8600E-02
*****	0.2309E+01	0.1341E+00	0.8193E-01	0.8415E-02
*****	0.2259E+01	0.1312E+00	0.8016E-01	0.8232E-02
*****	0.2210E+01	0.1283E+00	0.7843E-01	0.8056E-02
*****	0.2161E+01	0.1255E+00	0.7672E-01	0.7882E-02
*****	0.2115E+01	0.1228E+00	0.7508E-01	0.7713E-02
*****	0.2069E+01	0.1202E+00	0.7345E-01	0.7546E-02
*****	0.2023E+01	0.1175E+00	0.7183E-01	0.7381E-02
*****	0.1979E+01	0.1150E+00	0.7027E-01	0.7221E-02
*****	0.1938E+01	0.1125E+00	0.6877E-01	0.7065E-02
*****	0.1896E+01	0.1101E+00	0.6728E-01	0.6912E-02
*****	0.1854E+01	0.1076E+00	0.6580E-01	0.6762E-02
*****	0.1813E+01	0.1053E+00	0.6438E-01	0.6616E-02
*****	0.1773E+01	0.1030E+00	0.6297E-01	0.6473E-02
*****	0.1737E+01	0.1009E+00	0.6166E-01	0.6335E-02
*****	0.1697E+01	0.9859E-01	0.6027E-01	0.6196E-02

MASS OF CONTAMINANT REMAINING IN THE WASTE ZONE

TIME (DAYS)	MASS/AREA (G/M ²)	MASS FRAC. IN WASTE
0.0000000	10175.9765625	0.0020000
0.0000000	9969.6308594	0.0019594
0.0000000	9866.4570312	0.0019392
0.0000000	9763.2841797	0.0019189
0.0000000	9660.1113281	0.0018986
0.0000000	9556.9384766	0.0018783
0.0000000	9453.7656250	0.0018581
0.0000000	9350.5917969	0.0018378
0.0000000	9247.4189453	0.0018175
0.0000000	9144.2460938	0.0017972
0.0000000	9041.0732422	0.0017769
0.0000000	8937.8994141	0.0017567
0.0000000	8834.7265625	0.0017364
0.0000000	8731.5537109	0.0017161
0.0000000	8628.3808594	0.0016958
0.0000000	8525.2080078	0.0016756
0.0000000	8422.0341797	0.0016553
0.0000000	8318.8613281	0.0016350
0.0000000	8215.6884766	0.0016147
0.0000000	8112.5156250	0.0015944
0.0000000	8009.3422852	0.0015742
0.0000000	7906.1694336	0.0015539
0.0000000	7802.9960938	0.0015336
0.0000000	7699.8232422	0.0015133
0.0000000	7596.6503906	0.0014931
0.0000000	7493.4770508	0.0014728
0.0000000	7390.3041992	0.0014525
0.0000000	7287.1308594	0.0014322
0.0000000	7183.9580078	0.0014119
0.0000000	7080.7846680	0.0013917
0.0000000	6977.6118164	0.0013714
0.0000000	6874.4389648	0.0013511
0.0000000	6771.2656250	0.0013308
0.0000000	6668.0927734	0.0013106
0.0000000	6564.9194336	0.0012903
0.0000000	6461.7465820	0.0012700
0.0000000	6358.5732422	0.0012497
0.0000000	6255.4003906	0.0012294
0.0000000	6152.2275391	0.0012092
0.0000000	6049.0541992	0.0011889
0.0000000	5945.8813477	0.0011686
0.0000000	5842.7080078	0.0011483
0.0000000	5739.5351562	0.0011281
0.0000000	5636.3623047	0.0011078
0.0000000	5533.1889648	0.0010875
0.0000000	5430.0161133	0.0010672
0.0000000	5326.8427734	0.0010469
0.0000000	5223.6699219	0.0010267
0.0000000	5120.4965820	0.0010064
0.0000000	5017.3237305	0.0009861
0.0000000	4914.1508789	0.0009658
0.0000000	4810.9775391	0.0009456
0.0000000	4707.8046875	0.0009253
0.0000000	4604.6313477	0.0009050

[illegible]

[illegible]

[illegible]

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[illegible]

7.3696666E+028	0.0000000	0.0000000
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1.3563156E-019	0.0000000	0.0000000
6.4098238E-010	0.0000000	0.0000000
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1.3563156E-019	0.0000000	0.0000000
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299300.0000000	0.0000000	0.0000000
299665.0000000	0.0000000	0.0000000
300030.0000000	0.0000000	0.0000000
300395.0000000	0.0000000	0.0000000
300760.0000000	0.0000000	0.0000000
301125.0000000	0.0000000	0.0000000
301490.0000000	0.0000000	0.0000000
301855.0000000	0.0000000	0.0000000
302220.0000000	0.0000000	0.0000000
302585.0000000	0.0000000	0.0000000
302950.0000000	0.0000000	0.0000000
303315.0000000	0.0000000	0.0000000
303680.0000000	0.0000000	0.0000000
304045.0000000	0.0000000	0.0000000
304410.0000000	0.0000000	0.0000000
304775.0000000	0.0000000	0.0000000
305140.0000000	0.0000000	0.0000000
305505.0000000	0.0000000	0.0000000
305870.0000000	0.0000000	0.0000000
306235.0000000	0.0000000	0.0000000
306600.0000000	0.0000000	0.0000000
306965.0000000	0.0000000	0.0000000
307330.0000000	0.0000000	0.0000000
307695.0000000	0.0000000	0.0000000
308060.0000000	0.0000000	0.0000000
308425.0000000	0.0000000	0.0000000
308790.0000000	0.0000000	0.0000000
309155.0000000	0.0000000	0.0000000
309520.0000000	0.0000000	0.0000000
309885.0000000	0.0000000	0.0000000
310250.0000000	0.0000000	0.0000000
310615.0000000	0.0000000	0.0000000

310980.0000000	0.0000000	0.0000000
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312075.0000000	0.0000000	0.0000000
312440.0000000	0.0000000	0.0000000
312805.0000000	0.0000000	0.0000000
313170.0000000	0.0000000	0.0000000
313535.0000000	0.0000000	0.0000000
313900.0000000	0.0000000	0.0000000
314265.0000000	0.0000000	0.0000000
314630.0000000	0.0000000	0.0000000
314995.0000000	0.0000000	0.0000000
315360.0000000	0.0000000	0.0000000
315725.0000000	0.0000000	0.0000000
316090.0000000	0.0000000	0.0000000
316455.0000000	0.0000000	0.0000000
316820.0000000	0.0000000	0.0000000
317185.0000000	0.0000000	0.0000000
317550.0000000	0.0000000	0.0000000
317915.0000000	0.0000000	0.0000000
318280.0000000	0.0000000	0.0000000
318645.0000000	0.0000000	0.0000000
319010.0000000	0.0000000	0.0000000
319375.0000000	0.0000000	0.0000000
319740.0000000	0.0000000	0.0000000
320105.0000000	0.0000000	0.0000000
320470.0000000	0.0000000	0.0000000
320835.0000000	0.0000000	0.0000000
321200.0000000	0.0000000	0.0000000
321565.0000000	0.0000000	0.0000000
321930.0000000	0.0000000	0.0000000
322295.0000000	0.0000000	0.0000000
0.0964777	0.0000000	0.0000000
323025.0000000	0.0000000	0.0000000
323390.0000000	0.0000000	0.0000000
323755.0000000	0.0000000	0.0000000
324120.0000000	0.0000000	0.0000000
324485.0000000	0.0000000	0.0000000
324850.0000000	0.0000000	0.0000000
325215.0000000	0.0000000	0.0000000
325580.0000000	0.0000000	0.0000000
325945.0000000	0.0000000	0.0000000
326310.0000000	0.0000000	0.0000000
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327040.0000000	0.0000000	0.0000000
327405.0000000	0.0000000	0.0000000
327770.0000000	0.0000000	0.0000000
328135.0000000	0.0000000	0.0000000
328500.0000000	0.0000000	0.0000000
328865.0000000	0.0000000	0.0000000
329230.0000000	0.0000000	0.0000000
329595.0000000	0.0000000	0.0000000
329960.0000000	0.0000000	0.0000000
330325.0000000	0.0000000	0.0000000
330690.0000000	0.0000000	0.0000000
331055.0000000	0.0000000	0.0000000
331420.0000000	0.0000000	0.0000000

331785.0000000	0.0000000	0.0000000
332150.0000000	0.0000000	0.0000000
332515.0000000	0.0000000	0.0000000
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333245.0000000	0.0000000	0.0000000
333610.0000000	0.0000000	0.0000000
333975.0000000	0.0000000	0.0000000
334340.0000000	0.0000000	0.0000000
334705.0000000	0.0000000	0.0000000
335070.0000000	0.0000000	0.0000000
335435.0000000	0.0000000	0.0000000
335800.0000000	0.0000000	0.0000000
336165.0000000	0.0000000	0.0000000
336530.0000000	0.0000000	0.0000000
336895.0000000	0.0000000	0.0000000
337260.0000000	0.0000000	0.0000000
337625.0000000	0.0000000	0.0000000
337990.0000000	0.0000000	0.0000000
338355.0000000	0.0000000	0.0000000
338720.0000000	0.0000000	0.0000000
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339450.0000000	0.0000000	0.0000000
339815.0000000	0.0000000	0.0000000
340180.0000000	0.0000000	0.0000000
340545.0000000	0.0000000	0.0000000
340910.0000000	0.0000000	0.0000000
341275.0000000	0.0000000	0.0000000
341640.0000000	0.0000000	0.0000000
342005.0000000	0.0000000	0.0000000
342370.0000000	0.0000000	0.0000000
342735.0000000	0.0000000	0.0000000
343100.0000000	0.0000000	0.0000000
343465.0000000	0.0000000	0.0000000
343830.0000000	0.0000000	0.0000000
344195.0000000	0.0000000	0.0000000
344560.0000000	0.0000000	0.0000000
344925.0000000	0.0000000	0.0000000
345290.0000000	0.0000000	0.0000000
345655.0000000	0.0000000	0.0000000
346020.0000000	0.0000000	0.0000000
346385.0000000	0.0000000	0.0000000
346750.0000000	0.0000000	0.0000000
347115.0000000	0.0000000	0.0000000
347480.0000000	0.0000000	0.0000000
347845.0000000	0.0000000	0.0000000
348210.0000000	0.0000000	0.0000000
348575.0000000	0.0000000	0.0000000
348940.0000000	0.0000000	0.0000000
349305.0000000	0.0000000	0.0000000
349670.0000000	0.0000000	0.0000000
350035.0000000	0.0000000	0.0000000
350400.0000000	0.0000000	0.0000000
350765.0000000	0.0000000	0.0000000
351130.0000000	0.0000000	0.0000000
351495.0000000	0.0000000	0.0000000
351860.0000000	0.0000000	0.0000000
352225.0000000	0.0000000	0.0000000

352590.0000000	0.0000000	0.0000000
352955.0000000	0.0000000	0.0000000
353320.0000000	0.0000000	0.0000000
353685.0000000	0.0000000	0.0000000
354050.0000000	0.0000000	0.0000000
354415.0000000	0.0000000	0.0000000
354780.0000000	0.0000000	0.0000000
355145.0000000	0.0000000	0.0000000
355510.0000000	0.0000000	0.0000000
355875.0000000	0.0000000	0.0000000
356240.0000000	0.0000000	0.0000000
356605.0000000	0.0000000	0.0000000
356970.0000000	0.0000000	0.0000000
357335.0000000	0.0000000	0.0000000
357700.0000000	0.0000000	0.0000000
358065.0000000	0.0000000	0.0000000
358430.0000000	0.0000000	0.0000000
358795.0000000	0.0000000	0.0000000
359160.0000000	0.0000000	0.0000000
359525.0000000	0.0000000	0.0000000
359890.0000000	0.0000000	0.0000000
360255.0000000	0.0000000	0.0000000
360620.0000000	0.0000000	0.0000000
360985.0000000	0.0000000	0.0000000
361350.0000000	0.0000000	0.0000000
361715.0000000	0.0000000	0.0000000
362080.0000000	0.0000000	0.0000000
362445.0000000	0.0000000	0.0000000
362810.0000000	0.0000000	0.0000000
363175.0000000	0.0000000	0.0000000
363540.0000000	0.0000000	0.0000000
363905.0000000	0.0000000	0.0000000
364270.0000000	0.0000000	0.0000000
364635.0000000	0.0000000	0.0000000

Infiltration rate 1 inch per year.

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+ + + + + + + + + + + + + + + + + + + + + + + + + + + + +
+
+           VADSAT Version 3.0
+
+ A Monte Carlo Model for Assessing the Effects of Soil
+ Contamination on Groundwater Quality
+
+
+           Developed by:
+ Environmental Systems and Technologies Inc.
+ Blacksburg, Virginia
+ Tel: 703-552-0685, Fax: 703-951-5307
+
+
+           For
+ The American Petroleum Institute
+ 1995
+

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LAMBW, MEAN SAT. ZONE DECAY COEFF. (1/day) = 0.00000

SLAMB, STD.DEV. OF SAT. ZONE DECAY COEFF. = 0.00000

PORM, MEAN SAT. ZONE POROSITY (-) = 0.20000
STDPOR, STD.DEV. OF SAT. ZONE POROSITY = 0.00000

FOCM, MEAN SAT. ZONE ORG. CARBON FRAC. (-) = 0.00000
STDFOC, STD.DEV. SAT. ZONE ORG. CARBON FRAC.= 0.00000

ALRLTM, MEAN DISPERS, RATIO LONG/TRANSV. (-) = 3.00000
SALRLT, STD.DEV. OF DISP. RATIO LONG/TRANSV. = 0.00000

ALRTVM, MEAN DISPERS. RATIO TRANSV/VERT. (-) = 87.00000
SALRTV, STD.DEV. OF DISP. RATIO TRANSV/VERT. = 0.00000

CONDS, SAT. HYDRAULIC COND. (m/day) = 0.86000
SCONDS, STD.DEV. OF SAT HYDRAULIC COND. = 0.00000

GRADS, HYDRAULIC GRADIENT (m/m) = 0.02100
SGRADs, STD.DEV. OF HYDRAULIC GRADIENT = 0.00000

HMEAN, MEAN AQUIFER THICKNESS (m) = 21.80000
STDH, STD.DEV. OF AQUIFER THICKNESS = 0.00000

QINM, MEAN INFILTRATION RATE (m/day) = 0.00007
QINSTD, STD.DEV. OF INFILTRATION RATE = 0.00000

LOCATION OF RECEPTORS:

	X (M)	Y (M)	Z (M)
RECEPTOR(1)	5.0	0.0	0.0
RECEPTOR(2)	20.0	0.0	0.0
RECEPTOR(3)	120.0	0.0	0.0

BREAKTHROUGH CURVES

CONCENTRATIONS (MG/L) AT:

TIME (DAYS)	WATER TABLE BELOW THE SOURCE	RECEPTORS (in order)
365.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
730.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
1095.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
1460.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
1825.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
2190.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
2555.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
2920.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
3285.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
3650.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
4015.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
4380.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
4745.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
5110.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
5475.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00
5840.0000	0.0000E+00	0.0000E+00 0.0000E+00 0.0000E+00

6205.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6570.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
6935.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7300.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
7665.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8030.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8395.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
8760.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9125.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9490.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
9855.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10220.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10585.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
10950.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11315.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
11680.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12045.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12410.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
12775.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13140.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13505.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
13870.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14235.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14600.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
14965.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
15330.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
15695.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16060.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16425.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
16790.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17155.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17520.0000	0.0000E+00	0.0000E+00	0.0000E+00	0.0000E+00
17885.0000	0.1759E-09	0.1241E-10	0.3441E-11	0.2341E-15
18250.0000	0.4624E-09	0.3707E-10	0.1453E-10	0.5207E-13
18615.0000	0.1168E-08	0.9563E-10	0.3878E-10	0.3546E-12
18980.0000	0.2843E-08	0.2368E-09	0.9754E-10	0.1154E-11
19345.0000	0.6674E-08	0.5654E-09	0.2362E-09	0.3134E-11
19710.0000	0.1515E-07	0.1304E-08	0.5521E-09	0.7882E-11
20075.0000	0.3333E-07	0.2912E-08	0.1249E-08	0.1894E-10
20440.0000	0.7112E-07	0.6306E-08	0.2736E-08	0.4389E-10
20805.0000	0.1475E-06	0.1326E-07	0.5822E-08	0.9844E-10
21170.0000	0.2980E-06	0.2714E-07	0.1205E-07	0.2143E-09
21535.0000	0.5865E-06	0.5410E-07	0.2427E-07	0.4532E-09
21900.0000	0.1127E-05	0.1052E-06	0.4766E-07	0.9329E-09
22265.0000	0.2115E-05	0.1998E-06	0.9135E-07	0.1871E-08
22630.0000	0.3884E-05	0.3709E-06	0.1712E-06	0.3662E-08
22995.0000	0.6982E-05	0.6740E-06	0.3138E-06	0.7001E-08
23360.0000	0.1231E-04	0.1200E-05	0.5634E-06	0.1309E-07
23725.0000	0.2128E-04	0.2096E-05	0.9918E-06	0.2396E-07
24090.0000	0.3614E-04	0.3592E-05	0.1713E-05	0.4297E-07
24455.0000	0.6033E-04	0.6050E-05	0.2907E-05	0.7561E-07
24820.0000	0.9901E-04	0.1002E-04	0.4846E-05	0.1306E-06
25185.0000	0.1600E-03	0.1632E-04	0.7948E-05	0.2215E-06
25550.0000	0.2545E-03	0.2617E-04	0.1283E-04	0.3695E-06
25915.0000	0.3991E-03	0.4135E-04	0.2040E-04	0.6065E-06
26280.0000	0.6172E-03	0.6443E-04	0.3198E-04	0.9801E-06
26645.0000	0.9419E-03	0.9902E-04	0.4943E-04	0.1561E-05

27010.0000	0.1419E-02	0.1502E-03	0.7540E-04	0.2450E-05
27375.0000	0.2112E-02	0.2250E-03	0.1135E-03	0.3794E-05
27740.0000	0.3105E-02	0.3330E-03	0.1689E-03	0.5797E-05
28105.0000	0.4515E-02	0.4871E-03	0.2483E-03	0.8747E-05
28470.0000	0.6493E-02	0.7046E-03	0.3609E-03	0.1304E-04
28835.0000	0.9239E-02	0.1008E-02	0.5189E-03	0.1921E-04
29200.0000	0.1302E-01	0.1429E-02	0.7384E-03	0.2799E-04
29565.0000	0.1816E-01	0.2004E-02	0.1040E-02	0.4034E-04
29930.0000	0.2510E-01	0.2784E-02	0.1451E-02	0.5755E-04
30295.0000	0.3438E-01	0.3832E-02	0.2005E-02	0.8127E-04
30660.0000	0.4668E-01	0.5228E-02	0.2747E-02	0.1137E-03
31025.0000	0.6284E-01	0.7070E-02	0.3729E-02	0.1575E-03
31390.0000	0.8393E-01	0.9485E-02	0.5020E-02	0.2163E-03
31755.0000	0.1112E+00	0.1262E-01	0.6705E-02	0.2945E-03
32120.0000	0.1463E+00	0.1667E-01	0.8885E-02	0.3976E-03
32485.0000	0.1911E+00	0.2187E-01	0.1169E-01	0.5324E-03
32850.0000	0.2477E+00	0.2846E-01	0.1526E-01	0.7075E-03
33215.0000	0.3189E+00	0.3678E-01	0.1979E-01	0.9333E-03
33580.0000	0.4078E+00	0.4721E-01	0.2548E-01	0.1222E-02
33945.0000	0.5183E+00	0.5791E-01	0.3259E-01	0.1589E-02
34310.0000	0.6547E+00	0.7340E-01	0.4142E-01	0.2051E-02
34675.0000	0.8220E+00	0.9249E-01	0.5232E-01	0.2631E-02
35040.0000	0.1026E+01	0.1158E+00	0.6570E-01	0.3354E-02
35405.0000	0.1274E+01	0.1443E+00	0.8203E-01	0.4248E-02
35770.0000	0.1573E+01	0.1787E+00	0.1018E+00	0.5349E-02
36135.0000	0.1931E+01	0.2201E+00	0.1257E+00	0.6696E-02
36500.0000	0.2359E+01	0.2697E+00	0.1544E+00	0.8334E-02
36865.0000	0.2869E+01	0.3289E+00	0.1887E+00	0.1032E-01
37230.0000	0.3471E+01	0.3991E+00	0.2294E+00	0.1271E-01
37595.0000	0.4180E+01	0.4820E+00	0.2777E+00	0.1557E-01
37960.0000	0.5011E+01	0.5794E+00	0.3344E+00	0.1898E-01
38325.0000	0.5981E+01	0.6934E+00	0.4010E+00	0.2302E-01
38690.0000	0.7109E+01	0.8262E+00	0.4787E+00	0.2780E-01
39055.0000	0.8414E+01	0.9802E+00	0.5690E+00	0.3341E-01
39420.0000	0.9919E+01	0.1158E+01	0.6736E+00	0.3999E-01
39785.0000	0.1165E+02	0.1363E+01	0.7941E+00	0.4765E-01
40150.0000	0.1362E+02	0.1598E+01	0.9326E+00	0.5654E-01
40515.0000	0.1588E+02	0.1867E+01	0.1091E+01	0.6682E-01
40880.0000	0.1844E+02	0.2172E+01	0.1272E+01	0.7865E-01
41245.0000	0.2133E+02	0.2519E+01	0.1477E+01	0.9223E-01
41610.0000	0.2460E+02	0.2911E+01	0.1709E+01	0.1077E+00
41975.0000	0.2828E+02	0.3352E+01	0.1971E+01	0.1254E+00
42340.0000	0.3239E+02	0.3848E+01	0.2266E+01	0.1455E+00
42705.0000	0.3700E+02	0.4403E+01	0.2597E+01	0.1681E+00
43070.0000	0.4212E+02	0.5023E+01	0.2966E+01	0.1937E+00
43435.0000	0.4781E+02	0.5712E+01	0.3377E+01	0.2224E+00
43800.0000	0.5412E+02	0.6476E+01	0.3834E+01	0.2546E+00
44165.0000	0.6108E+02	0.7322E+01	0.4340E+01	0.2905E+00
44530.0000	0.6875E+02	0.8254E+01	0.4899E+01	0.3304E+00
44895.0000	0.7716E+02	0.9280E+01	0.5514E+01	0.3748E+00
45260.0000	0.8639E+02	0.1041E+02	0.6191E+01	0.4239E+00
45625.0000	0.9646E+02	0.1164E+02	0.6931E+01	0.4781E+00
45990.0000	0.1074E+03	0.1298E+02	0.7741E+01	0.5377E+00
46355.0000	0.1194E+03	0.1445E+02	0.8624E+01	0.6032E+00
46720.0000	0.1323E+03	0.1604E+02	0.9583E+01	0.6749E+00
47085.0000	0.1463E+03	0.1776E+02	0.1062E+02	0.7532E+00
47450.0000	0.1615E+03	0.1962E+02	0.1175E+02	0.8385E+00

47815.0000	0.1778E+03	0.2163E+02	0.1297E+02	0.9313E+00
48180.0000	0.1953E+03	0.2379E+02	0.1428E+02	0.1032E+01
48545.0000	0.2140E+03	0.2612E+02	0.1568E+02	0.1140E+01
48910.0000	0.2341E+03	0.2861E+02	0.1719E+02	0.1258E+01
49275.0000	0.2556E+03	0.3126E+02	0.1881E+02	0.1384E+01
49640.0000	0.2785E+03	0.3410E+02	0.2054E+02	0.1520E+01
50005.0000	0.3028E+03	0.3712E+02	0.2237E+02	0.1665E+01
50370.0000	0.3286E+03	0.4034E+02	0.2433E+02	0.1821E+01
50735.0000	0.3559E+03	0.4375E+02	0.2641E+02	0.1987E+01
51100.0000	0.3849E+03	0.4735E+02	0.2861E+02	0.2165E+01
51465.0000	0.4154E+03	0.5116E+02	0.3094E+02	0.2353E+01
51830.0000	0.4475E+03	0.5518E+02	0.3339E+02	0.2553E+01
52195.0000	0.4813E+03	0.5942E+02	0.3598E+02	0.2765E+01
52560.0000	0.5168E+03	0.6386E+02	0.3870E+02	0.2989E+01
52925.0000	0.5540E+03	0.6852E+02	0.4156E+02	0.3225E+01
53290.0000	0.5928E+03	0.7340E+02	0.4456E+02	0.3474E+01
53655.0000	0.6334E+03	0.7850E+02	0.4769E+02	0.3735E+01
54020.0000	0.6757E+03	0.8383E+02	0.5096E+02	0.4010E+01
54385.0000	0.7197E+03	0.8937E+02	0.5436E+02	0.4297E+01
54750.0000	0.7654E+03	0.9514E+02	0.5791E+02	0.4598E+01
55115.0000	0.8128E+03	0.1011E+03	0.6159E+02	0.4912E+01
55480.0000	0.8619E+03	0.1073E+03	0.6541E+02	0.5240E+01
55845.0000	0.9126E+03	0.1137E+03	0.6937E+02	0.5580E+01
56210.0000	0.9649E+03	0.1204E+03	0.7346E+02	0.5934E+01
56575.0000	0.1019E+04	0.1272E+03	0.7767E+02	0.6300E+01
56940.0000	0.1074E+04	0.1342E+03	0.8202E+02	0.6680E+01
57305.0000	0.1131E+04	0.1415E+03	0.8649E+02	0.7072E+01
57670.0000	0.1189E+04	0.1489E+03	0.9108E+02	0.7476E+01
58035.0000	0.1249E+04	0.1565E+03	0.9579E+02	0.7894E+01
58400.0000	0.1310E+04	0.1642E+03	0.1006E+03	0.8322E+01
58765.0000	0.1373E+04	0.1722E+03	0.1055E+03	0.8763E+01
59130.0000	0.1436E+04	0.1803E+03	0.1106E+03	0.9214E+01
59495.0000	0.1500E+04	0.1885E+03	0.1157E+03	0.9676E+01
59860.0000	0.1566E+04	0.1969E+03	0.1209E+03	0.1015E+02
60225.0000	0.1632E+04	0.2054E+03	0.1262E+03	0.1063E+02
60590.0000	0.1700E+04	0.2140E+03	0.1315E+03	0.1112E+02
60955.0000	0.1768E+04	0.2227E+03	0.1370E+03	0.1162E+02
61320.0000	0.1836E+04	0.2316E+03	0.1425E+03	0.1213E+02
61685.0000	0.1905E+04	0.2404E+03	0.1480E+03	0.1264E+02
62050.0000	0.1975E+04	0.2494E+03	0.1536E+03	0.1316E+02
62415.0000	0.2045E+04	0.2584E+03	0.1592E+03	0.1369E+02
62780.0000	0.2114E+04	0.2674E+03	0.1648E+03	0.1422E+02
63145.0000	0.2185E+04	0.2764E+03	0.1705E+03	0.1475E+02
63510.0000	0.2254E+04	0.2855E+03	0.1761E+03	0.1529E+02
63875.0000	0.2324E+04	0.2945E+03	0.1818E+03	0.1583E+02
64240.0000	0.2394E+04	0.3035E+03	0.1874E+03	0.1637E+02
64605.0000	0.2463E+04	0.3125E+03	0.1931E+03	0.1692E+02
64970.0000	0.2532E+04	0.3214E+03	0.1987E+03	0.1746E+02
65335.0000	0.2600E+04	0.3302E+03	0.2042E+03	0.1800E+02
65700.0000	0.2667E+04	0.3389E+03	0.2097E+03	0.1854E+02
66065.0000	0.2733E+04	0.3476E+03	0.2151E+03	0.1907E+02
66430.0000	0.2799E+04	0.3561E+03	0.2205E+03	0.1961E+02
66795.0000	0.2863E+04	0.3645E+03	0.2258E+03	0.2013E+02
67160.0000	0.2926E+04	0.3727E+03	0.2310E+03	0.2066E+02
67525.0000	0.2988E+04	0.3808E+03	0.2361E+03	0.2117E+02
67890.0000	0.3048E+04	0.3887E+03	0.2411E+03	0.2168E+02
68255.0000	0.3107E+04	0.3965E+03	0.2460E+03	0.2218E+02

68620.0000	0.3164E+04	0.4040E+03	0.2508E+03	0.2267E+02
68985.0000	0.3220E+04	0.4259E+03	0.2554E+03	0.2315E+02
69350.0000	0.3274E+04	0.4332E+03	0.2599E+03	0.2362E+02
69715.0000	0.3326E+04	0.4403E+03	0.2643E+03	0.2407E+02
70080.0000	0.3376E+04	0.4471E+03	0.2685E+03	0.2452E+02
70445.0000	0.3424E+04	0.4537E+03	0.2725E+03	0.2495E+02
70810.0000	0.3470E+04	0.4600E+03	0.2764E+03	0.2537E+02
71175.0000	0.3513E+04	0.4660E+03	0.2801E+03	0.2577E+02
71540.0000	0.3555E+04	0.4717E+03	0.2837E+03	0.2616E+02
71905.0000	0.3594E+04	0.4772E+03	0.2871E+03	0.2653E+02
72270.0000	0.3631E+04	0.4823E+03	0.2902E+03	0.2689E+02
72635.0000	0.3665E+04	0.4871E+03	0.2932E+03	0.2723E+02
73000.0000	0.3697E+04	0.4916E+03	0.2960E+03	0.2755E+02
73365.0000	0.3727E+04	0.4957E+03	0.2986E+03	0.2786E+02
73730.0000	0.3754E+04	0.4995E+03	0.3011E+03	0.2815E+02
74095.0000	0.3779E+04	0.5031E+03	0.3033E+03	0.2842E+02
74460.0000	0.3801E+04	0.5062E+03	0.3053E+03	0.2867E+02
74825.0000	0.3821E+04	0.5091E+03	0.3071E+03	0.2890E+02
75190.0000	0.3838E+04	0.5115E+03	0.3087E+03	0.2911E+02
75555.0000	0.3852E+04	0.5137E+03	0.3101E+03	0.2930E+02
75920.0000	0.3864E+04	0.5155E+03	0.3113E+03	0.2948E+02
76285.0000	0.3874E+04	0.5170E+03	0.3123E+03	0.2963E+02
76650.0000	0.3881E+04	0.5182E+03	0.3131E+03	0.2977E+02
77015.0000	0.3886E+04	0.5190E+03	0.3137E+03	0.2988E+02
77380.0000	0.3888E+04	0.5195E+03	0.3141E+03	0.2998E+02
77745.0000	0.3888E+04	0.5196E+03	0.3143E+03	0.3006E+02
78110.0000	0.3885E+04	0.5195E+03	0.3143E+03	0.3011E+02
78475.0000	0.3880E+04	0.5190E+03	0.3141E+03	0.3015E+02
78840.0000	0.3873E+04	0.5182E+03	0.3137E+03	0.3017E+02
79205.0000	0.3863E+04	0.5171E+03	0.3131E+03	0.3017E+02
79570.0000	0.3851E+04	0.5157E+03	0.3123E+03	0.3015E+02
79935.0000	0.3837E+04	0.5140E+03	0.3114E+03	0.3012E+02
80300.0000	0.3821E+04	0.5120E+03	0.3103E+03	0.3006E+02
80665.0000	0.3803E+04	0.5098E+03	0.3090E+03	0.2999E+02
81030.0000	0.3783E+04	0.5072E+03	0.3075E+03	0.2990E+02
81395.0000	0.3761E+04	0.5044E+03	0.3059E+03	0.2979E+02
81760.0000	0.3736E+04	0.5014E+03	0.3041E+03	0.2967E+02
82125.0000	0.3711E+04	0.4981E+03	0.3022E+03	0.2953E+02
82490.0000	0.3683E+04	0.4945E+03	0.3001E+03	0.2938E+02
82855.0000	0.3654E+04	0.4907E+03	0.2979E+03	0.2921E+02
83220.0000	0.3623E+04	0.4867E+03	0.2955E+03	0.2902E+02
83585.0000	0.3590E+04	0.4825E+03	0.2930E+03	0.2882E+02
83950.0000	0.3556E+04	0.4781E+03	0.2904E+03	0.2861E+02
84315.0000	0.3521E+04	0.4734E+03	0.2877E+03	0.2839E+02
84680.0000	0.3484E+04	0.4686E+03	0.2848E+03	0.2815E+02
85045.0000	0.3446E+04	0.4637E+03	0.2819E+03	0.2790E+02
85410.0000	0.3406E+04	0.4585E+03	0.2788E+03	0.2763E+02
85775.0000	0.3366E+04	0.4532E+03	0.2756E+03	0.2736E+02
86140.0000	0.3324E+04	0.4477E+03	0.2724E+03	0.2708E+02
86505.0000	0.3282E+04	0.4421E+03	0.2690E+03	0.2678E+02
86870.0000	0.3239E+04	0.4364E+03	0.2656E+03	0.2648E+02
87235.0000	0.3194E+04	0.4306E+03	0.2621E+03	0.2617E+02
87600.0000	0.3149E+04	0.4246E+03	0.2585E+03	0.2585E+02
87965.0000	0.3104E+04	0.4185E+03	0.2549E+03	0.2552E+02
88330.0000	0.3057E+04	0.4124E+03	0.2512E+03	0.2518E+02
88695.0000	0.3010E+04	0.4062E+03	0.2475E+03	0.2484E+02
89060.0000	0.2963E+04	0.3998E+03	0.2437E+03	0.2449E+02

89425.0000	0.2915E+04	0.3935E+03	0.2398E+03	0.2414E+02
89790.0000	0.2866E+04	0.3870E+03	0.2359E+03	0.2378E+02
90155.0000	0.2817E+04	0.3806E+03	0.2320E+03	0.2342E+02
90520.0000	0.2768E+04	0.3740E+03	0.2281E+03	0.2305E+02
90885.0000	0.2719E+04	0.3675E+03	0.2241E+03	0.2268E+02
91250.0000	0.2670E+04	0.3609E+03	0.2202E+03	0.2230E+02
91615.0000	0.2620E+04	0.3543E+03	0.2162E+03	0.2192E+02
91980.0000	0.2571E+04	0.3476E+03	0.2122E+03	0.2155E+02
92345.0000	0.2521E+04	0.3410E+03	0.2082E+03	0.2116E+02
92710.0000	0.2472E+04	0.3344E+03	0.2041E+03	0.2078E+02
93075.0000	0.2422E+04	0.3278E+03	0.2001E+03	0.2040E+02
93440.0000	0.2373E+04	0.3212E+03	0.1961E+03	0.2001E+02
93805.0000	0.2324E+04	0.3146E+03	0.1922E+03	0.1963E+02
94170.0000	0.2275E+04	0.3080E+03	0.1882E+03	0.1924E+02
94535.0000	0.2226E+04	0.3015E+03	0.1842E+03	0.1886E+02
94900.0000	0.2177E+04	0.2950E+03	0.1803E+03	0.1848E+02
95265.0000	0.2129E+04	0.2885E+03	0.1764E+03	0.1810E+02
95630.0000	0.2082E+04	0.2821E+03	0.1725E+03	0.1771E+02
95995.0000	0.2034E+04	0.2758E+03	0.1686E+03	0.1734E+02
96360.0000	0.1987E+04	0.2695E+03	0.1648E+03	0.1696E+02
96725.0000	0.1941E+04	0.2632E+03	0.1610E+03	0.1659E+02
97090.0000	0.1895E+04	0.2570E+03	0.1572E+03	0.1622E+02
97455.0000	0.1849E+04	0.2509E+03	0.1535E+03	0.1585E+02
97820.0000	0.1804E+04	0.2448E+03	0.1498E+03	0.1548E+02
98185.0000	0.1760E+04	0.2389E+03	0.1462E+03	0.1512E+02
98550.0000	0.1716E+04	0.2329E+03	0.1426E+03	0.1477E+02
98915.0000	0.1673E+04	0.2271E+03	0.1390E+03	0.1441E+02
99280.0000	0.1630E+04	0.2214E+03	0.1355E+03	0.1406E+02
99645.0000	0.1588E+04	0.2157E+03	0.1321E+03	0.1372E+02
*****	0.1547E+04	0.2101E+03	0.1287E+03	0.1338E+02
*****	0.1506E+04	0.2046E+03	0.1253E+03	0.1304E+02
*****	0.1466E+04	0.1992E+03	0.1220E+03	0.1271E+02
*****	0.1426E+04	0.1938E+03	0.1188E+03	0.1238E+02
*****	0.1387E+04	0.1886E+03	0.1156E+03	0.1206E+02
*****	0.1349E+04	0.1835E+03	0.1124E+03	0.1174E+02
*****	0.1312E+04	0.1784E+03	0.1093E+03	0.1143E+02
*****	0.1275E+04	0.1734E+03	0.1063E+03	0.1112E+02
*****	0.1239E+04	0.1685E+03	0.1033E+03	0.1082E+02
*****	0.1204E+04	0.1638E+03	0.1004E+03	0.1052E+02
*****	0.1169E+04	0.1591E+03	0.9756E+02	0.1023E+02
*****	0.1135E+04	0.1545E+03	0.9475E+02	0.9946E+01
*****	0.1102E+04	0.1500E+03	0.9200E+02	0.9665E+01
*****	0.1069E+04	0.1456E+03	0.8931E+02	0.9390E+01
*****	0.1037E+04	0.1413E+03	0.8668E+02	0.9121E+01
*****	0.1006E+04	0.1370E+03	0.8410E+02	0.8857E+01
*****	0.9758E+03	0.1329E+03	0.8157E+02	0.8597E+01
*****	0.9461E+03	0.1289E+03	0.7911E+02	0.8344E+01
*****	0.9170E+03	0.1249E+03	0.7670E+02	0.8096E+01
*****	0.8887E+03	0.1211E+03	0.7434E+02	0.7854E+01
*****	0.8610E+03	0.1173E+03	0.7205E+02	0.7617E+01
*****	0.8339E+03	0.1137E+03	0.6980E+02	0.7385E+01
*****	0.8075E+03	0.1101E+03	0.6761E+02	0.7158E+01
*****	0.7818E+03	0.1066E+03	0.6547E+02	0.6937E+01
*****	0.7568E+03	0.1032E+03	0.6339E+02	0.6721E+01
*****	0.7323E+03	0.9987E+02	0.6135E+02	0.6510E+01
*****	0.7085E+03	0.9664E+02	0.5937E+02	0.6305E+01
*****	0.6853E+03	0.9350E+02	0.5745E+02	0.6105E+01

*****	0.6628E+03	0.9043E+02	0.5557E+02	0.5909E+01
*****	0.6409E+03	0.8745E+02	0.5374E+02	0.5719E+01
*****	0.6195E+03	0.8454E+02	0.5196E+02	0.5533E+01
*****	0.5987E+03	0.8172E+02	0.5023E+02	0.5352E+01
*****	0.5785E+03	0.7898E+02	0.4855E+02	0.5177E+01
*****	0.5589E+03	0.7631E+02	0.4691E+02	0.5006E+01
*****	0.5398E+03	0.7371E+02	0.4532E+02	0.4839E+01
*****	0.5213E+03	0.7119E+02	0.4378E+02	0.4677E+01
*****	0.5033E+03	0.6874E+02	0.4228E+02	0.4519E+01
*****	0.4859E+03	0.6637E+02	0.4082E+02	0.4366E+01
*****	0.4689E+03	0.6406E+02	0.3940E+02	0.4218E+01
*****	0.4524E+03	0.6182E+02	0.3803E+02	0.4073E+01
*****	0.4365E+03	0.5965E+02	0.3670E+02	0.3933E+01
*****	0.4210E+03	0.5754E+02	0.3540E+02	0.3797E+01
*****	0.4061E+03	0.5550E+02	0.3415E+02	0.3664E+01
*****	0.3915E+03	0.5352E+02	0.3294E+02	0.3536E+01
*****	0.3774E+03	0.5160E+02	0.3176E+02	0.3411E+01
*****	0.3638E+03	0.4974E+02	0.3061E+02	0.3291E+01
*****	0.3506E+03	0.4794E+02	0.2951E+02	0.3174E+01
*****	0.3378E+03	0.4620E+02	0.2844E+02	0.3060E+01
*****	0.3254E+03	0.4450E+02	0.2740E+02	0.2950E+01
*****	0.3134E+03	0.4287E+02	0.2640E+02	0.2844E+01
*****	0.3018E+03	0.4129E+02	0.2542E+02	0.2741E+01
*****	0.2906E+03	0.3976E+02	0.2449E+02	0.2641E+01
*****	0.2798E+03	0.3828E+02	0.2358E+02	0.2544E+01
*****	0.2693E+03	0.3685E+02	0.2270E+02	0.2451E+01
*****	0.2591E+03	0.3547E+02	0.2185E+02	0.2360E+01
*****	0.2494E+03	0.3413E+02	0.2103E+02	0.2273E+01
*****	0.2399E+03	0.3284E+02	0.2023E+02	0.2188E+01
*****	0.2308E+03	0.3159E+02	0.1946E+02	0.2106E+01
*****	0.2219E+03	0.3039E+02	0.1872E+02	0.2027E+01
*****	0.2134E+03	0.2922E+02	0.1801E+02	0.1950E+01
*****	0.2052E+03	0.2810E+02	0.1732E+02	0.1876E+01
*****	0.1972E+03	0.2701E+02	0.1665E+02	0.1805E+01
*****	0.1896E+03	0.2597E+02	0.1600E+02	0.1736E+01
*****	0.1822E+03	0.2496E+02	0.1538E+02	0.1669E+01
*****	0.1751E+03	0.2398E+02	0.1478E+02	0.1605E+01
*****	0.1682E+03	0.2304E+02	0.1421E+02	0.1543E+01
*****	0.1616E+03	0.2214E+02	0.1365E+02	0.1483E+01
*****	0.1552E+03	0.2126E+02	0.1311E+02	0.1425E+01
*****	0.1490E+03	0.2042E+02	0.1259E+02	0.1370E+01
*****	0.1431E+03	0.1961E+02	0.1209E+02	0.1316E+01
*****	0.1374E+03	0.1883E+02	0.1161E+02	0.1264E+01
*****	0.1318E+03	0.1807E+02	0.1115E+02	0.1214E+01
*****	0.1265E+03	0.1735E+02	0.1070E+02	0.1166E+01
*****	0.1214E+03	0.1665E+02	0.1027E+02	0.1120E+01
*****	0.1165E+03	0.1598E+02	0.9855E+01	0.1075E+01
*****	0.1118E+03	0.1533E+02	0.9456E+01	0.1032E+01
*****	0.1072E+03	0.1470E+02	0.9071E+01	0.9903E+00
*****	0.1028E+03	0.1410E+02	0.8701E+01	0.9504E+00
*****	0.9862E+02	0.1353E+02	0.8346E+01	0.9120E+00
*****	0.9457E+02	0.1297E+02	0.8004E+01	0.8750E+00
*****	0.9067E+02	0.1244E+02	0.7675E+01	0.8394E+00
*****	0.8691E+02	0.1192E+02	0.7358E+01	0.8050E+00
*****	0.8330E+02	0.1143E+02	0.7054E+01	0.7721E+00
*****	0.7984E+02	0.1096E+02	0.6761E+01	0.7404E+00
*****	0.7651E+02	0.1050E+02	0.6480E+01	0.7099E+00

***** 0.7330E+02 0.1006E+02 0.6209E+01 0.6804E+00
***** 0.7022E+02 0.9638E+01 0.5950E+01 0.6523E+00
***** 0.6727E+02 0.9234E+01 0.5700E+01 0.6251E+00
***** 0.6443E+02 0.8845E+01 0.5461E+01 0.5991E+00
***** 0.6171E+02 0.8471E+01 0.5230E+01 0.5740E+00
***** 0.5908E+02 0.8112E+01 0.5008E+01 0.5499E+00
***** 0.5657E+02 0.7767E+01 0.4796E+01 0.5268E+00
***** 0.5416E+02 0.7437E+01 0.4592E+01 0.5046E+00
***** 0.5184E+02 0.7120E+01 0.4397E+01 0.4833E+00
***** 0.4962E+02 0.6815E+01 0.4209E+01 0.4628E+00
***** 0.4749E+02 0.6522E+01 0.4028E+01 0.4431E+00
***** 0.4544E+02 0.6242E+01 0.3855E+01 0.4242E+00
***** 0.4348E+02 0.5973E+01 0.3689E+01 0.4061E+00
***** 0.4160E+02 0.5715E+01 0.3530E+01 0.3887E+00
***** 0.3979E+02 0.5466E+01 0.3377E+01 0.3720E+00
***** 0.3806E+02 0.5229E+01 0.3230E+01 0.3560E+00
***** 0.3640E+02 0.5002E+01 0.3090E+01 0.3406E+00
***** 0.3481E+02 0.4784E+01 0.2956E+01 0.3259E+00
***** 0.3329E+02 0.4575E+01 0.2826E+01 0.3118E+00
***** 0.3182E+02 0.4374E+01 0.2702E+01 0.2982E+00
***** 0.3042E+02 0.4182E+01 0.2584E+01 0.2852E+00
***** 0.2908E+02 0.3998E+01 0.2470E+01 0.2728E+00
***** 0.2780E+02 0.3821E+01 0.2361E+01 0.2608E+00
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***** 0.2426E+02 0.3335E+01 0.2061E+01 0.2279E+00
***** 0.2318E+02 0.3187E+01 0.1970E+01 0.2179E+00
***** 0.2214E+02 0.3045E+01 0.1882E+01 0.2082E+00
***** 0.2115E+02 0.2909E+01 0.1798E+01 0.1990E+00
***** 0.2020E+02 0.2778E+01 0.1717E+01 0.1901E+00
***** 0.1929E+02 0.2654E+01 0.1640E+01 0.1817E+00
***** 0.1843E+02 0.2534E+01 0.1567E+01 0.1736E+00
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*****	0.5142E+01	0.7082E+00	0.4383E+00	0.4891E-01
*****	0.4898E+01	0.6748E+00	0.4177E+00	0.4662E-01
*****	0.4667E+01	0.6429E+00	0.3980E+00	0.4443E-01
*****	0.4445E+01	0.6124E+00	0.3791E+00	0.4233E-01
*****	0.4234E+01	0.5834E+00	0.3612E+00	0.4034E-01
*****	0.4034E+01	0.5558E+00	0.3440E+00	0.3843E-01
*****	0.3842E+01	0.5293E+00	0.3277E+00	0.3662E-01
*****	0.3657E+01	0.5040E+00	0.3120E+00	0.3488E-01
*****	0.3484E+01	0.4801E+00	0.2972E+00	0.3323E-01
*****	0.3317E+01	0.4571E+00	0.2830E+00	0.3165E-01
*****	0.3159E+01	0.4353E+00	0.2695E+00	0.3014E-01
*****	0.3009E+01	0.4146E+00	0.2566E+00	0.2871E-01
*****	0.2863E+01	0.3946E+00	0.2443E+00	0.2734E-01
*****	0.2727E+01	0.3758E+00	0.2327E+00	0.2603E-01
*****	0.2595E+01	0.3576E+00	0.2214E+00	0.2479E-01
*****	0.2470E+01	0.3404E+00	0.2108E+00	0.2360E-01
*****	0.2350E+01	0.3239E+00	0.2006E+00	0.2247E-01
*****	0.2236E+01	0.3083E+00	0.1909E+00	0.2139E-01
*****	0.2129E+01	0.2934E+00	0.1817E+00	0.2036E-01
*****	0.2026E+01	0.2793E+00	0.1729E+00	0.1938E-01
*****	0.1928E+01	0.2657E+00	0.1646E+00	0.1845E-01
*****	0.1834E+01	0.2528E+00	0.1566E+00	0.1755E-01
*****	0.1745E+01	0.2406E+00	0.1490E+00	0.1671E-01
*****	0.1660E+01	0.2289E+00	0.1418E+00	0.1590E-01
*****	0.1579E+01	0.2178E+00	0.1349E+00	0.1513E-01
*****	0.1503E+01	0.2072E+00	0.1283E+00	0.1439E-01
*****	0.1429E+01	0.1970E+00	0.1220E+00	0.1369E-01
*****	0.1358E+01	0.1873E+00	0.1161E+00	0.1303E-01
*****	0.1293E+01	0.1783E+00	0.1104E+00	0.1240E-01
*****	0.1229E+01	0.1695E+00	0.1050E+00	0.1179E-01
*****	0.1168E+01	0.1612E+00	0.9987E-01	0.1122E-01
*****	0.1111E+01	0.1533E+00	0.9499E-01	0.1067E-01
*****	0.1057E+01	0.1457E+00	0.9028E-01	0.1015E-01
*****	0.1005E+01	0.1386E+00	0.8590E-01	0.9648E-02
*****	0.9551E+00	0.1318E+00	0.8163E-01	0.9175E-02
*****	0.9082E+00	0.1253E+00	0.7761E-01	0.8723E-02
*****	0.8633E+00	0.1191E+00	0.7380E-01	0.8300E-02
*****	0.8203E+00	0.1131E+00	0.7010E-01	0.7891E-02
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*****	0.7412E+00	0.1023E+00	0.6338E-01	0.7130E-02
*****	0.7041E+00	0.9716E-01	0.6021E-01	0.6778E-02
*****	0.6699E+00	0.9242E-01	0.5727E-01	0.6441E-02
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*****	0.4688E+00	0.6462E-01	0.4002E-01	0.4507E-02
*****	0.4453E+00	0.6143E-01	0.3806E-01	0.4288E-02
*****	0.4229E+00	0.5832E-01	0.3613E-01	0.4071E-02
*****	0.4023E+00	0.5547E-01	0.3436E-01	0.3868E-02
*****	0.3809E+00	0.5259E-01	0.3261E-01	0.3680E-02
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*****	0.3262E+00	0.4502E-01	0.2790E-01	0.3148E-02

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*****	0.2529E+00	0.3486E-01	0.2159E-01	0.2429E-02
*****	0.2393E+00	0.3303E-01	0.2048E-01	0.2310E-02
*****	0.2266E+00	0.3133E-01	0.1944E-01	0.2196E-02
*****	0.2158E+00	0.2975E-01	0.1843E-01	0.2084E-02
*****	0.2051E+00	0.2831E-01	0.1755E-01	0.1981E-02
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*****	0.1836E+00	0.2538E-01	0.1576E-01	0.1785E-02
*****	0.1748E+00	0.2411E-01	0.1494E-01	0.1694E-02
*****	0.1660E+00	0.2293E-01	0.1422E-01	0.1606E-02
*****	0.1582E+00	0.2188E-01	0.1358E-01	0.1529E-02
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*****	0.1416E+00	0.1961E-01	0.1218E-01	0.1374E-02
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*****	0.1279E+00	0.1764E-01	0.1093E-01	0.1238E-02
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*****	0.8887E-01	0.1222E-01	0.7556E-02	0.8567E-03
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*****	0.1758E-01	0.2441E-02	0.1521E-02	0.1765E-03
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***** 0.9766E-03 0.0000E+00 0.0000E+00 0.1074E-10
***** 0.0000E+00 0.3983E-04 0.4179E-04 0.7486E-05
***** 0.0000E+00 0.0000E+00 0.0000E+00 0.3007E-11
***** 0.0000E+00 0.2630E-06 0.1270E-05 0.5187E-05
***** 0.0000E+00 0.2601E-06 0.1259E-05 0.5178E-05

```

MASS OF CONTAMINANT REMAINING IN THE WASTE ZONE

TIME (DAYS)	MASS/AREA (G/M^2)	MASS FRAC. IN WASTE
0.0000000	10175.9765625	0.0020000
0.0000000	9694.5019531	0.0019054
0.0000000	9453.7646484	0.0018581
0.0000000	9213.0283203	0.0018107
0.0000000	8972.2910156	0.0017634
0.0000000	8731.5537109	0.0017161
0.0000000	8490.8164062	0.0016688
0.0000000	8250.0791016	0.0016215
0.0000000	8009.3422852	0.0015742
0.0000000	7768.6049805	0.0015268
0.0000000	7527.8681641	0.0014795
0.0000000	7287.1308594	0.0014322
0.0000000	7046.3935547	0.0013849
0.0000000	6805.6567383	0.0013376
0.0000000	6564.9194336	0.0012903
0.0000000	6324.1821289	0.0012430
0.0000000	6083.4453125	0.0011956
0.0000000	5842.7080078	0.0011483
0.0000000	5601.9707031	0.0011010
0.0000000	5361.2333984	0.0010537
0.0000000	5120.4965820	0.0010064
0.0000000	4879.7592773	0.0009591
0.0000000	4639.0219727	0.0009118
0.0000000	4398.2851562	0.0008644
0.0000000	4157.5478516	0.0008171
0.0000000	3916.8107910	0.0007698
0.0000000	3676.0737305	0.0007225
0.0000000	3435.3364258	0.0006752
0.0000000	3194.5993652	0.0006279
0.0000000	2953.8620605	0.0005806
0.0000000	2713.1250000	0.0005332
0.0000000	2472.3879395	4.8592529E-004
0.0000000	2231.6506348	4.3861059E-004
0.0000000	1990.9135742	3.9129591E-004
0.0000000	1750.1763916	3.4398120E-004
0.0000000	1509.4393311	2.9666655E-004
0.0000000	1268.7021484	2.4935184E-004

[illegible]

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0.0000000	0.0000000	0.0000000
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37960.0000000	0.0000000	0.0000000
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38690.0000000	0.0000000	0.0000000
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39420.0000000	0.0000000	0.0000000
39785.0000000	0.0000000	0.0000000
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40515.0000000	0.0000000	0.0000000
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216445.0000000	0.0000000	0.0000000
216810.0000000	0.0000000	0.0000000
217175.0000000	0.0000000	0.0000000
217540.0000000	0.0000000	0.0000000
217905.0000000	0.0000000	0.0000000
218270.0000000	0.0000000	0.0000000
218635.0000000	0.0000000	0.0000000