Versar INC. SACRAMENTO

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July 13, 1994

Mr. Scott Seery
Alameda County Health Care Services Agency
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Contaminant Modeling Using SESOIL for Nike Military Site,
2892 Fairmont Drive, San Leandro, California
Versar Project No. 2241-010

Dear Mr. Seery:

Please find enclosed one copy of the Contaminant Modeling Using SESOIL for Nike Military Site.

If you have any questions or require additional information regarding this submittal, please call me at (916) 962-1612.

Sincerely,

John Russell
Geologist

Enclosures

5330 PRIMROSE DRIVE • SUITE 228 • FAIR OAKS, CALIFORNIA 95628
TELEPHONE: (916) 962-1612 • FAX: (916) 962-2678

Versar INC. SACRAMENTO

July 13, 1994

Mr. Peter Kinney
Environmental Engineer
County of Alameda
General Services Agency
4400 MacArthur Boulevard
Oakland, California 94619

SUBJECT: CONTAMINANT MODELING USING SESOIL FOR NIKE MILITARY SITE, 2892 FAIRMONT DRIVE, SAN LEANDRO, CALIFORNIA; Versar Project No. 2241-010

Dear Mr. Kinney:

We are pleased to submit our draft report for the contaminant modeling performed by Versar, Inc. (Versar) for the County of Alameda General Services Agency (County). In accordance with our contract, Versar conducted an evaluation of seasonal soil pollutant pathways using the mathematical model SESOIL. SESOIL is a seasonal soil compartment model developed for the U.S. Environmental Protection Agency (EPA). This model has been shown to provide reliable predicted pollutant concentration values during validation studies comparing predicted values to measured values.

For this project, Versar used SESOIL to model the potential migration of total petroleum hydrocarbons as diesel (TPH-D), and xylenes in a diesel ligand, through the soils at the Nike Military Site in San Leandro, California (site). The source of the hydrocarbons is a stockpile of soils removed during an underground storage tank (UST) removal operation[1]. Laboratory analysis of samples collected from the stockpile identified TPH-D concentrations up to 62 milligrams per kilogram (mg/kg), ethylbenzene concentrations up to 0.0062 mg/kg, and total xylenes concentrations up to 0.021 mg/kg. For the purposes of this report, the potential migration of TPH-D and xylenes was estimated using the SESOIL model.

Objective

The objective of the modeling is to estimate the potential migration of specific petroleum hydrocarbon components (TPH-D and xylenes) through the subsurface soils of the site over a given period of time (30 years).

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[1]Versar, Inc., April 5, 1994. Underground Storage Tank Closure Report, for the Nike Military Site, 2892 Fairmont Drive, San Leandro, California.

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Data and Mathematical Model Analysis

Two separate simulations were run to estimate the vertical migration of total xylenes in a diesel ligand, and TPH-D, respectively. For the purposes of this exercise, the contaminants were assumed to be applied directly to the soil surface beneath the stockpile during the first month of the simulation. The model was then used to estimate the vertical migration of the contaminants through the soils beneath the stockpile.

The stockpile is an elongated ovoid approximately 65 feet long and 13 feet wide, with a footprint of approximately 760 square feet. The stockpile is seven feet high at the south end and three feet high at the north end, with an average height of five feet. A maximum of approximately 140 cubic yards of soil are in the stockpile.

A total of six soil samples were collected from the stockpile and composited by Trace Analytical Laboratory, Inc. (Trace) into two samples for analysis. Laboratory analytical results identified an average TPH-D concentration of 58.5 mg/kg, and an average xylenes concentration of 0.018 mg/kg (assuming the non detect result as a concentration equal to the reporting limit of 0.015 mg/kg). Benzene and toluene were not identified in concentrations at or above the reporting limit. Ethylbenzene was identified in one sample at 0.0062 mg/kg, just above the reporting limit of 0.005 mg/kg, but was not included in this study. The subsurface migration of ethylbenzene is assumed to be essentially similar to that of xylenes, which were found in higher concentrations. A copy of the laboratory analytical results is included as Attachment I.

The SESOIL model requires input parameters of climate, soils, chemical, and contaminant application data. The climate data used was extracted from a database supplied with the software. The selected climate data is specific for Oakland, California. The soils data is based on lithologic logs from the site investigation (Versar, 1994) that identify three lithologic units in the upper 50 feet below ground surface (bgs). The lithological units are a well sorted sand extending to four feet bgs, a highly weathered silty clay extending to 29 feet bgs, and a slightly weathered silty clay extending to 50 feet bgs. Specific climate, soils, chemical, and application data for each model run is specified in the printouts included as Attachment III.

Chemical data was created based on the laboratory results and standard chemical literature. Chemical parameters such as Henry's Constant, biodegradability, and molecular weight are defined for each chemical compound. Site specific simulations were conducted for xylenes using diesel as a ligand, and for TPH-D. Contaminant applications data included the calculated mass of diesel and xylenes which was applied to the top layer of soil beneath the

stockpile to simulate initial loading conditions. The total mass of diesel was calculated to be 12.074 kilograms (kg) which was applied as 17,100 micrograms per square centimeter ($\mu g/cm^2$). The total mass of xylenes was calculated to be 0.00371 kg, which was applied as 5.272 $\mu g/cm^2$. Note that all non-detect results were assumed to be concentrations equal to the reporting limit. This conservative approach was maintained during all phases of the simulation. A period of 30 years was simulated for each run. The results of the modeling are summarized in the graphs included as Attachment II and the data sheets included as Attachment III.

The primary assumptions associated with the SESOIL estimation are:

- All data included in the April 5, 1994 UST Closure Report represents an accurate assessment of the current site conditions.
- There are no pre-existing contaminated conditions beneath the bioremediation cell.
- The diesel ligand is non-biodegradable and non-volatile (this assumption is used to maintain a conservative approach).
- The laboratory analytical results provide an accurate representation of the contamination present in the stockpile.
- All non-detect analytical results represent a contaminant concentration equal to the method reporting limit.
- The contaminants are present at the uppermost soil surface (beneath the stockpile) on the first day of the first month of the simulation.
- All other parameters are as stipulated on the data sheets for each simulation.

Discussion of Results

The results of the simulations indicates the maximum estimated depth of xylenes after 30 years is 0.364 meters (equivalent to 14 inches bgs) with 99 percent of the initial mass applied having been degraded or volatilized. A maximum concentration of 1.44×10^{-8} mg/kg of xylenes remained adsorbed to the soils. Reportable concentrations of total xylenes in the soil, however, were not present after the second year. The maximum estimated depth of

xylenes after the second year was 0.024 meters bgs (equivalent to one inch bgs).

The estimated maximum depth of TPH-D after 30 years was 0.174 meters (equivalent to seven inches) with 99 percent of the initial mass having been degraded or volatilized. A maximum concentration of 5.6×10^{-9} mg/kg of TPH-D remained adsorbed to the soils. Reportable concentrations of TPH-D persisted in the upper soils until the end of the eighteenth year. The maximum estimated depth of TPH-D after 18 years was 0.105 meters (equivalent to four inches bgs).

Note that the contaminants are present only in the uppermost sand layer. The presence of a silty clay layer beneath the sands will act as a barrier to potential contaminant migration. Because SESOIL does not allow for the collection of contaminants at the interface between the sand and clay layer, a warning is printed at the top of each printout. This warning is not relevant to the outcome of the simulation because the contaminants did not enter the second layer.

Conclusions

The conclusions stated below are based on the site specific SESOIL modeling of xylenes in a diesel ligand, and diesel, for a thirty year time period.

- The maximum depth of migration of xylenes is 0.024 meters (one inch) bgs after which the concentration decreases to below the method reporting limit of 0.015 mg/kg. The time required for this to occur is two years.
- The maximum depth of migration of TPH-D is 0.105 meters (four inches) bgs after which the concentration decreases to below the method reporting limit of 1.0 mg/kg. The time required for this to occur is 18 years.
- Because groundwater was not identified in the upper 50 feet of soil, there is a very low likelihood that the petroleum hydrocarbons discussed above will impact the groundwater beneath the site.

Should you have any questions or concerns regarding the information presented in this report, please do not hesitate to contact our senior geohydrologist, Mr. Lawrence Kleinecke, in our Sacramento office at (916) 962-1612.

Prepared By:

Lawrence Kleinecke
Senior Geohydrologist

Approved By:

John Russell for
Robert White
Program Manager

Michael P. Sellers
P. P. James Frantes
Vice President, Pacific Region

Attachments

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ATTACHMENT I

Laboratory Analytical Results

Trace Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545
Telephone (510) 783-6960
Facsimile (510) 783-1512

April 21, 1994

Mr. John Russell
Versar, Inc.
1255 Harbor Bay Parkway, Suite 100
Alameda, CA 94501

Dear Mr. Russell:

Trace Analysis Laboratory received six soil samples on April 14, 1994 for your Project No. 2241-010, Nike Site, County of Alameda (our custody log number 4304).

These samples were analyzed for Total Petroleum Hydrocarbons as Diesel and Benzene, Toluene, Ethylbenzene, and Xylenes. Our analytical report, the completed chain of custody form, and our analytical methodologies are enclosed for your review.

Trace Analysis Laboratory is certified under the California Environmental Laboratory Accreditation Program. Our certification number is 1199.

If you should have any questions or require additional information, please call me.

Sincerely yours,

Scott T. Ferriman

Scott T. Ferriman
Project Specialist

Enclosures

race Analysis Laboratory, Inc.
3423 Investment Boulevard, #8 • Hayward, California 94545
Telephone (510) 783-6960
Facsimile (510) 783-1512

LOG NUMBER: 4304
DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/14/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/21/94

CUSTOMER: Versar, Inc.

REQUESTER: John Russell

PROJECT: No. 2241-010, Nike Site, County of Alameda

Sample Type: Soil

Method and Constituent:	Units	Composite of 1-S, 2-S and 3-S Concentration	Composite of 1-S, 2-S and 3-S Reporting Limit	Composite of 4-N, 5-N and 6-N Concentration	Composite of 4-N, 5-N and 6-N Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit
DHS Method:							
Total Petroleum Hydrocarbons as Diesel	ug/kg	62,000	1,000	55,000	1,000	ND	1,000

QC Summary:

% Recovery: 104*
% RPD: 13

Concentrations reported as ND were not detected at or above the reporting limit.
*The Recovery is for the Laboratory Control Sample, due to interference in the spiked sample.

These samples contain compounds eluting later than the diesel standard.

LOG NUMBER: 4304
DATE SAMPLED: 04/14/94
DATE RECEIVED: 04/14/94
DATE EXTRACTED: 04/18/94
DATE ANALYZED: 04/20/94
DATE REPORTED: 04/21/94
PAGE: Two

Sample Type: Soil

Method and Constituent:	Units	Composite of 1-S, 2-S and 3-S Concentration	Composite of 1-S, 2-S and 3-S Reporting Limit	Composite of 4-N, 5-N and 6-N Concentration	Composite of 4-N, 5-N and 6-N Reporting Limit	Method Blank Concentration	Method Blank Reporting Limit
Modified EPA Method 8020 for:							
Benzene	ug/kg	ND	5.0	ND	5.0	ND	5.0
Toluene	ug/kg	ND	5.0	ND	5.0	ND	5.0
Ethylbenzene	ug/kg	6.2	5.0	ND	5.0	ND	5.0
Xylenes	ug/kg	ND	15	21	15	ND	15

QC Summary:
% Recovery: 114
% RPD: 4.1

Concentrations reported as ND were not detected at or above the reporting limit.

Louis W. DuPuis
Quality Assurance/Quality Control Manager

Versar

4304

CHAIN OF CUSTODY RECORD

PROJECT NO.	PROJECT NAME	INDUSTRIAL HYGIENE SAMPLE
2241.010	Nike Site - County of Alameda	Y / N

SAMPLERS: (Signature) John Russell (Printed) John Russell

PARAMETERS: NO. OF CONTAINERS; TPH-D; BETX (8020)

FIELD SAMPLE NUMBER	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TPH-D	BETX (8020)	REMARKS
1-S	4/14/94	1000		X	Soil Stockpile - S. half	1	X	X	Composite 1-S, 2-S and 3-S
2-S	"	1005		X	" "	1	X	X	
3-S	"	1010		X	" "	1	X	X	
DUP 4-N	"	1025		X	Soil Stockpile - N. half	1	X	X	Composite 4-N, 5-N, and 6-N
5-N	"	1030		X	" "	1	X	X	
6-N	"	1035		X	" "	1	X	X	

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
John Russell	4/14/94 1145				
(Printed) John Russell		(Printed)	(Printed)		(Printed)

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
		Scott T. Ferman	4/14/94 1145	FAX results to John Russell 5-Day normal turnaround time
(Printed)		(Printed) Scott T. Ferman		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink). Walkin, Soil 1-BTEX only 5-Day

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ATTACHMENT II

Graphs

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Nike Military Site
July, 1994

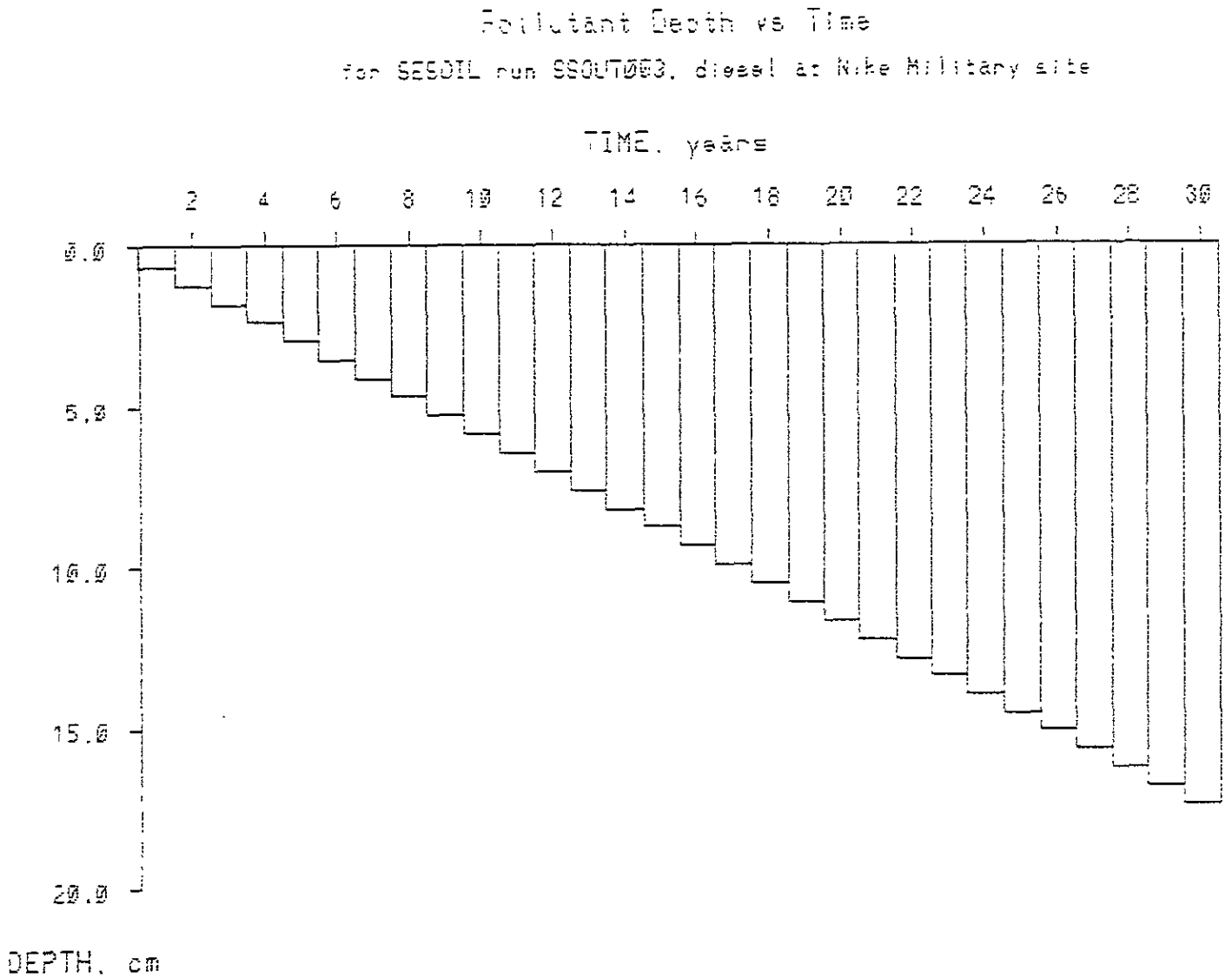

Figure 1a

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Nike Military Site
July, 1994

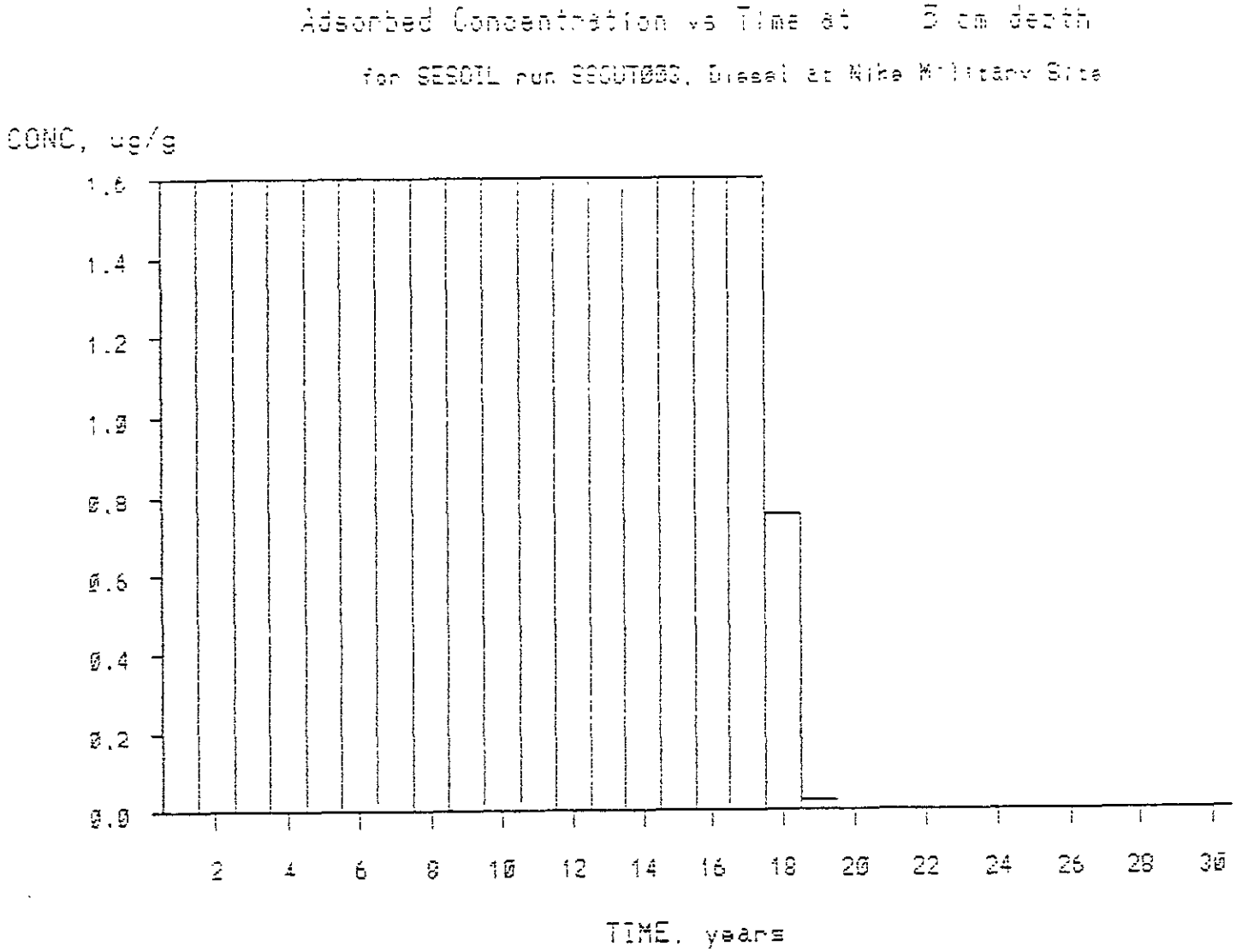

Figure 1b

Versar INC. SACRAMENTO

Nike Military Site
July, 1994

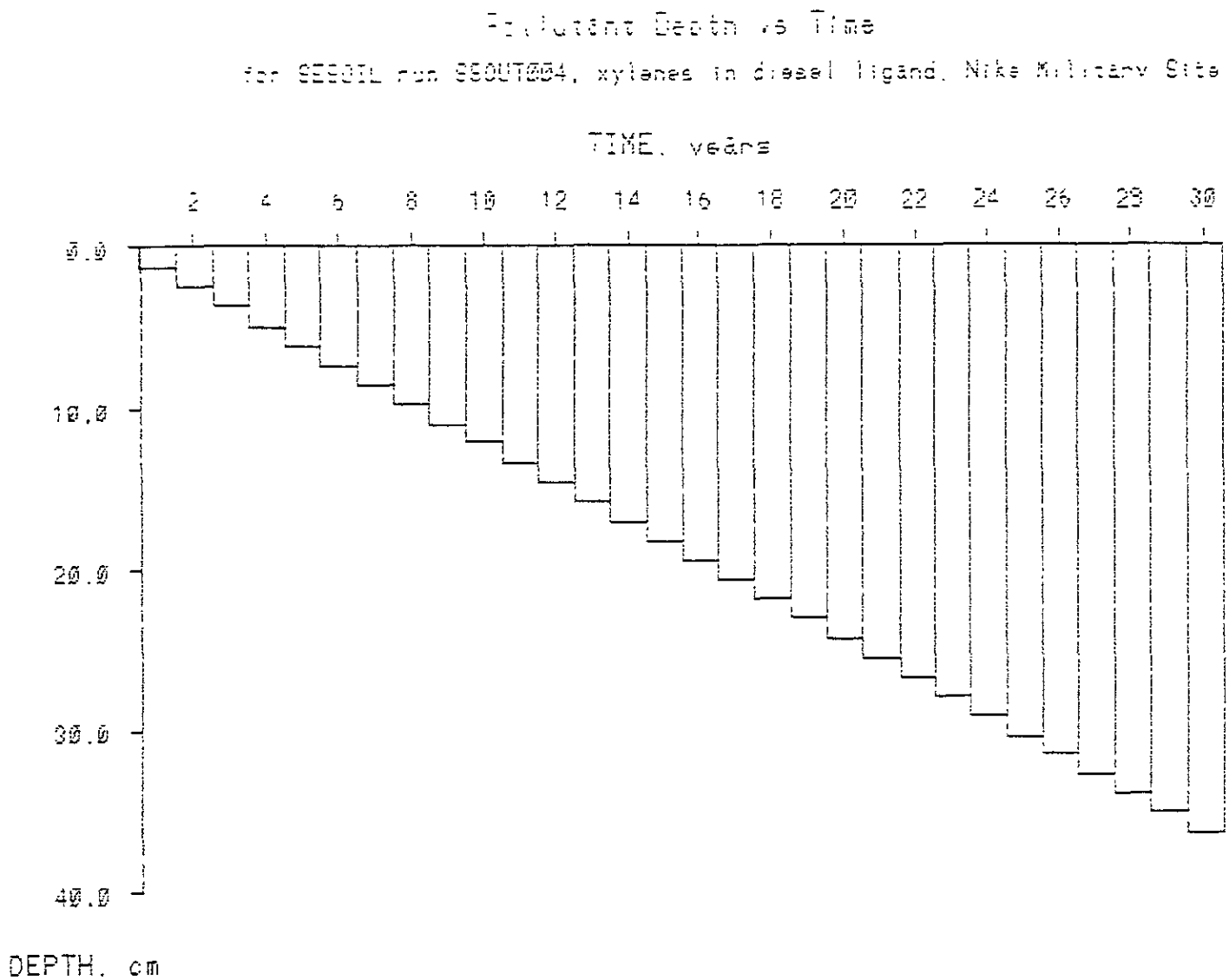

Figure 2a

Versar INC. SACRAMENTO

Nike Military Site
July, 1994

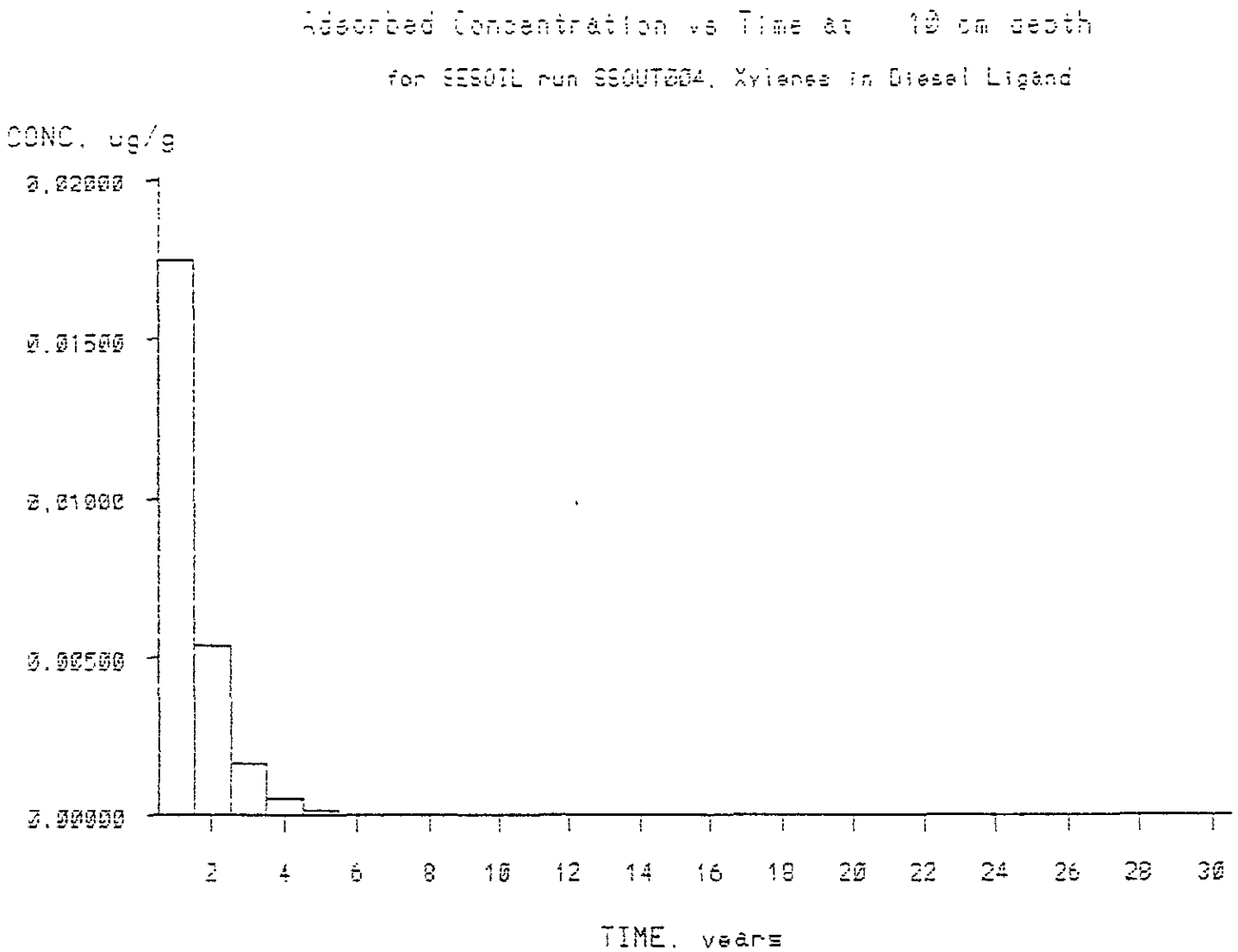

Figure 2b

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ATTACHMENT III

Data Sheets

1

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*****************************************************************************************************
******
 *****
*****
 ***** SESOIL-84 :  SEASONAL CYCLES OF WATER, SEDIMENT, AND POLLUTANTS IN SOIL ENVIRONMENTS
*****
 *****
*****
 ***** DEVELOPERS:  M. BONAZOUNTAS,ARTHUR D. LITTLE INC.  ,(617)864-5770,X5871
*****
 *****              J. WAGNER     ,DIS/ADLPIPE, INC.      ,(617)492-1991,X5820
*****
 *****
*****
 ***** MODIFIED EXTENSIVELY BY:
*****
 ***** D.M. HETRICK
*****
 ***** OAK RIDGE NATIONAL LABORATORY
*****
 ***** (615) 576-7556
*****
 ***** VERSION   :  SEPTEMBER 1986
*****
 *****
*****

*****************************************************************************************************
******
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****** MONTHLY SESOIL MODEL OPERATION ******
MONTHLY SITE SPECIFIC SIMULATION

REGION : OAKLAND WSO AP
SOIL TYPE : SILTY CLAY
COMPOUND : xylenes/diesel
WASHLOAD DATA :
APPLICATION AREA: NIKE MILITARY SITE, SAN LEANDRO, CA

WARNING- SOIL PERMEABILITY VARYS CONSIDERABLY AMONG LAYERS
SESOIL MAY NOT BE ACCURATE FOR SUCH AN INHOMOGENEOUS COLUMN

WARNING- SOIL PERMEABILITY VARYS CONSIDERABLY AMONG LAYERS
SESOIL MAY NOT BE ACCURATE FOR SUCH AN INHOMOGENEOUS COLUMN

GENERAL INPUT PARAMETERS

-- SOIL INPUT PARAMETERS --

SOIL DENSITY (G/CM**3):	1.35
INTRINSIC PERMEABILITY (CM**2):	.500E-10
DISCONNECTEDNESS INDEX (-):	12.0
POROSITY (-):	.250
ORGANIC CARBON CONTENT (%):	1.00
CATION EXCHANGE CAPACITY (MILLI EQ./100G DRY SOIL):	.000
FREUNDLICH EXPONENT (-):	1.00

1

-- CHEMICAL INPUT PARAMETERS --

SOLUBILITY (UG/ML):	175.
DIFFUSION COEFFICIENT IN AIR (CM**2/SEC):	.750E-01
HENRYS LAW CONSTANT (M**3-ATM/MOLE):	.510E-02
ADSORPTION COEFFICIENT ON ORGANIC CARBON(KOC):	380.
ADSORPTION COEFFICIENT ON SOIL (K):	.000
MOLECULAR WEIGHT (G/MOL):	106.
VALENCE (-):	.000
NEUTRAL HYDROLYSIS CONSTANT (/DAY):	.000
BASE HYDROLYSIS CONSTANT (L/MOL-DAY):	.000
ACID HYDROLYSIS CONSTANT (L/MOL-DAY):	.000
DEGRADATION RATE IN MOISTURE (/DAY):	.100
DEGRADATION RATE ON SOIL (/DAY):	.000

LIGAND-POLLUTANT STABILITY CONSTANT (-): 1.00
NO. MOLES LIGAND/MOLE POLLUTANT (-): .256E-04
LIGAND MOLECULAR WEIGHT (G/MOL): 202.

-- APPLICATION INPUT PARAMETERS --

NUMBER OF SOIL LAYERS: 3
YEARS TO BE SIMULATED: 30
AREA (CM**2): 0.706E+06
APPLICATION AREA LATITUDE (DEG.): 37.5
SPILL (1) OR STEADY APPLICATION (0): 1
DEPTHS (CM): 0.12E+03 0.76E+03 0.64E+03
NUMBER OF SUBLAYERS/LAYER 1 7 6
PH (CM): 7.0 7.0 7.0
INTRINSIC PERMEABILITIES (CM**2): 0.15E-08 0.50E-10 0.40E-10
KDEL RATIOS (-): 1.0 1.0
KDES RATIOS (-): 1.0 1.0
OC RATIOS (-): 0.00 0.00
CEC RATIOS (-): 1.0 1.0
FRN RATIOS(-): 1.0 1.0
ADS RATIOS(-): 1.0 1.0

1

YEAR - 1 MONTHLY INPUT PARAMETERS

-- CLIMATIC INPUT PARAMETERS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TEMP. (DEG C)	16.000	12.380	9.550	8.830	10.330	11.270	12.940	14.940	17.110	18.660	18.660	18.500
CLOUD CVR (FRAC.)	0.400	0.500	0.600	0.600	0.550	0.550	0.500	0.450	0.300	0.300	0.300	0.300
REL. HUM.(FRAC.)	0.650	0.700	0.800	0.800	0.750	0.750	0.700	0.700	0.700	0.600	0.650	0.650
ALBEDO (-)	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
EVAPOT. (CM/DAY)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRECIP. (CM)	2.780	5.750	8.260	10.360	7.080	6.080	3.620	0.960	0.310	0.110	0.120	0.600
M.TIME RAIN(DAYS)	0.260	0.490	0.660	0.720	0.530	0.490	0.430	0.210	0.120	0.050	0.030	0.130
M. STORM NO. (-)	1.600	3.810	4.930	5.650	5.090	4.870	3.000	1.150	0.210	0.110	0.180	0.450
M. SEASON (DAYS)	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400

-- POLLUTANT INPUT PARAMETERS --

POL. INP-1 (UG/CM**2) 5.27E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-1 (UG/CM**2) 1.71E+04 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-1 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
SURFACE RUNOFF MULT. 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
POL. IN RAIN (FRAC-SL) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00

POL. INP-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-2 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00

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 POL. INP-L (UG/CM**2)  0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 SINKS-L (UG/CM**2)     0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 VOLATILIZATION MULT.-L 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
1
      YEAR - 2    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR


      -- POLLUTANT INPUT PARAMETERS --

 POL. INP-1 (UG/CM**2)  0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 TRNSFORMD-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 SINKS-1 (UG/CM**2)     0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 LIG.INPUT-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 VOLATILIZATION MULT.-1 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
 SURFACE RUNOFF MULT.   0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 POL. IN RAIN (FRAC-SL) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00


 POL. INP-2 (UG/CM**2)  0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 TRNSFORMD-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 SINKS-2 (UG/CM**2)     0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 LIG.INPUT-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 VOLATILIZATION MULT.-2 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00


 POL. INP-L (UG/CM**2)  0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 SINKS-L (UG/CM**2)     0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
 VOLATILIZATION MULT.-L 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
1
      YEAR - 3    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR - 4    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR - 5    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
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YEAR - 6 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR - 7 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR - 8 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR - 9 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -10 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -11 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -12 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -13 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -14 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -15 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -16 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -17 MONTHLY INPUT PARAMETERS
======== ========================

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

```
      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -18    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -19    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -20    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -21    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -22    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -23    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -24    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -25    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -26    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -27    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -28    MONTHLY INPUT PARAMETERS
      ========    ========================

      -- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

      -- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
1
      YEAR -29    MONTHLY INPUT PARAMETERS
      ========    ========================
```

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR -30 MONTHLY INPUT PARAMETERS

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR - 1 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	15.972	16.222	16.697	17.172	17.347	17.447	17.347	17.122	16.947	16.797	16.647	16.472
MOIS. BELOW L1 (%)	15.972	16.222	16.697	17.172	17.347	17.447	17.347	17.122	16.947	16.797	16.647	16.472
PRECIPATION (CM)	3.164	5.887	8.419	10.467	7.118	6.182	3.671	1.174	0.958	0.578	0.726	0.916
NET INFILT. (CM)	0.236	0.862	1.248	1.403	1.079	1.017	0.593	0.184	0.036	0.018	0.031	0.053
EVAPOTRANS. (CM)	0.310	0.486	0.569	0.696	0.733	0.755	0.588	0.350	0.147	0.104	0.128	0.193
MOIS. RETEN (CM)	-0.127	0.318	0.603	0.603	0.222	0.127	-0.127	-0.286	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.928	5.025	7.170	9.063	6.038	5.165	3.078	0.990	0.923	0.560	0.695	0.863
GRW. RUNOFF (CM)	0.053	0.058	0.076	0.104	0.123	0.135	0.132	0.119	0.111	0.104	0.093	0.082
YIELD (CM)	2.981	5.083	7.247	9.168	6.162	5.300	3.210	1.109	1.034	0.664	0.789	0.945
PAU/MPA (GZU)	1.138	1.024	1.019	1.010	1.005	1.017	1.014	1.223	3.092	5.253	6.051	1.526
PA/MPA (GZ)	1.138	1.024	1.019	1.010	1.005	1.017	1.014	1.223	3.092	5.253	6.051	1.526

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	3.721E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	3.721E+06	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 9.859E+03 8.279E+03 6.312E+03 4.750E+03 3.975E+03 3.436E+03 3.196E+03 3.167E+03
3.067E+03 2.927E+03 2.825E+03 2.753E+03
DEGRAD MOIS 3.202E+05 2.961E+05 2.769E+05 2.581E+05 2.361E+05 2.150E+05 1.935E+05 1.731E+05
1.554E+05 1.398E+05 1.259E+05 1.132E+05
IN SOIL MOI 1.020E+05 9.427E+04 8.806E+04 8.201E+04 7.499E+04 6.825E+04 6.146E+04 5.501E+04
4.940E+04 4.447E+04 4.005E+04 3.604E+04
ADS ON SOIL 3.276E+06 2.981E+06 2.706E+06 2.450E+06 2.218E+06 2.007E+06 1.818E+06 1.648E+06
1.496E+06 1.358E+06 1.234E+06 1.122E+06
IN SOIL AIR 1.233E+04 1.105E+04 9.582E+03 8.264E+03 7.288E+03 6.494E-03 5.859E+03 5.429E+03
4.997E+03 4.570E+03 4.229E+03 3.928E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH

MONTH, THEY ARE NOT PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.415E-03 6.746E-03 6.123E-03 5.544E-03 5.019E-03 4.542E-03 4.113E-03 3.730E-03 3.384E-03 3.073E-03 2.793E-03 2.540E-03
%SOLUBILITY 4.237E-03 3.855E-03 3.499E-03 3.168E-03 2.868E-03 2.595E-03 2.350E-03 2.131E-03 1.934E-03 1.756E-03 1.596E-03 1.451E-03
ADSORBED 2.818E-02 2.564E-02 2.327E-02 2.107E-02 1.907E-02 1.726E-02 1.563E-02 1.417E-02 1.286E-02 1.168E-02 1.061E-02 9.651E-03
SOIL AIR 1.586E-03 1.461E-03 1.340E-03 1.225E-03 1.105E-03 9.982E-04 8.887E-04 8.000E-04 7.203E-04 6.467E-04 5.877E-04 5.347E-04
FREE LIGAND 8.793E+02 8.658E+02 8.411E+02 8.179E+02 8.096E+02 8.050E+02 8.096E+02 8.203E+02 8.287E+02 8.361E+02 8.437E+02 8.526E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 4.314E-02 1.993E-01 4.254E-01 6.794E-01 8.751E-01 1.060E+00 1.168E+00 1.202E+00 1.209E+00 1.213E+00 1.219E+00 1.229E+00
1 YEAR - 1 ANNUAL SUMMARY REPORT

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	3.721E+06
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.849
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.849
TOTAL PRECIPITATION (CM)	49.258
TOTAL INFILTRATION (CM)	6.760
TOTAL EVAPOTRANSPIRATION (CM)	5.059
TOTAL SURFACE RUNOFF (CM)	42.498
TOTAL GRW RUNOFF (CM)	1.194
TOTAL MOISTURE RETENTION (CM)	0.508
TOTAL YIELD (CM)	43.691

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	5.455E+04
TOTAL DEGRADED (MOISTURE)	2.503E+06

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.585E-03
ADSORBED SOIL (UG/G)	1.742E-02
SOIL AIR (UG/ML)	9.911E-04
FREE LIGAND (UG/ML)	8.342E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.229E-02

1

YEAR - 2 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	2.696E+03	2.297E+03	1.792E+03	1.369E+03	1.156E+03	1.009E+03	9.489E+02	9.512E+02	9.213E+02	8.795E+02	8.488E+02	8.275E+02
DEGRAD MOIS	1.021E+05	9.393E+04	8.730E+04	8.106E+04	7.398E+04	6.720E+04	6.038E+04	5.391E+04	4.838E+04	4.351E+04	3.916E+04	3.522E+04
IN SOIL MOI	3.249E+04	2.989E+04	2.775E+04	2.574E+04	2.349E+04	2.133E+04	1.917E+04	1.713E+04	1.538E+04	1.383E+04	1.246E+04	1.121E+04
ADS ON SOIL	1.021E+06	9.279E+05	8.413E+05	7.612E+05	6.886E+05	6.227E+05	5.636E+05	5.109E+05	4.634E+05	4.207E+05	3.821E+05	3.474E+05
IN SOIL AIR	3.694E+03	3.322E+03	2.899E+03	2.510E+03	2.218E+03	1.982E+03	1.793E+03	1.667E+03	1.534E+03	1.403E+03	1.298E+03	1.205E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.311E-03 2.100E-03 1.904E-03 1.723E-03 1.558E-03 1.409E-03 1.276E-03 1.156E-03 1.049E-03 9.519E-04 8.647E-04 7.862E-04
%SOLUBILITY 1.321E-03 1.200E-03 1.088E-03 9.844E-04 8.904E-04 8.052E-04 7.289E-04 6.607E-04 5.992E-04 5.440E-04 4.941E-04 4.492E-04
ADSORBED 8.782E-03 7.980E-03 7.235E-03 6.546E-03 5.921E-03 5.355E-03 4.847E-03 4.393E-03

3.985E-03 3.617E-03 3.286E-03 2.988E-03
SOIL AIR 4.942E-04 4.548E-04 4.166E-04 3.808E-04 3.432E-04 3.097E-04 2.756E-04 2.480E-04
2.232E-04 2.003E-04 1.820E-04 1.655E-04
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02
8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.269E+00 1.423E+00 1.640E+00 1.890E+00 2.087E+00 2.272E+00 2.379E+00 2.409E+00
2.418E+00 2.424E+00 2.431E+00 2.443E+00
1 YEAR - 2 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.570E+04
TOTAL DEGRADED (MOISTURE)	7.861E+05

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.424E-03
ADSORBED SOIL (UG/G)	5.411E-03
SOIL AIR (UG/ML)	3.078E-04
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	2.443E-02

1

YEAR - 3 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

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JUN      JUL      AUG      SEP

 MOIS. IN L1 (%)      16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 MOIS. BELOW L1 (%)   16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 PRECIPATION (CM)      3.029    5.941    8.201   10.448    7.262    6.262    3.653    1.061
1.211    0.844    0.918    1.071
 NET INFILT. (CM)      0.218    0.850    1.195    1.380    1.087    1.020    0.585    0.165
0.045    0.025    0.039    0.061
 EVAPOTRANS. (CM)      0.340    0.523    0.597    0.722    0.759    0.777    0.602    0.357
0.150    0.106    0.130    0.197
 MOIS. RETEN (CM)     -0.190    0.254    0.508    0.540    0.191    0.095   -0.159   -0.317
-0.222   -0.190   -0.190   -0.222
 SUR. RUNOFF (CM)      2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)      0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)            2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)         1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)           1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------

                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN       JUL       AUG       SEP

 PRECIP.     0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 8.346E+02 7.110E+02 5.549E+02 4.240E+02 3.579E+02 3.124E+02 2.939E+02 2.946E+02
2.854E+02 2.724E+02 2.629E+02 2.563E+02
 DEGRAD MOIS 3.160E+04 2.908E+04 2.703E+04 2.510E+04 2.291E+04 2.081E+04 1.870E+04 1.670E+04
1.499E+04 1.348E+04 1.213E+04 1.091E+04
 IN SOIL MOI 1.006E+04 9.253E+03 8.593E+03 7.971E+03 7.273E+03 6.605E+03 5.937E+03 5.305E+03
4.763E+03 4.286E+03 3.858E+03 3.471E+03
 ADS ON SOIL 3.162E+05 2.873E+05 2.605E+05 2.357E+05 2.132E+05 1.928E+05 1.746E+05 1.582E+05
1.436E+05 1.303E+05 1.184E+05 1.076E+05
 IN SOIL AIR 1.144E+03 1.028E+03 8.976E+02 7.773E+02 6.870E+02 6.137E+02 5.554E+02 5.164E+02
4.752E+02 4.345E+02 4.019E+02 3.733E+02

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4
```

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.155E-04 6.502E-04 5.895E-04 5.334E-04 4.825E-04 4.364E-04 3.950E-04 3.581E-04 3.249E-04 2.949E-04 2.679E-04 2.435E-04
%SOLUBILITY 4.089E-04 3.715E-04 3.369E-04 3.048E-04 2.757E-04 2.494E-04 2.257E-04 2.046E-04 1.856E-04 1.685E-04 1.531E-04 1.392E-04
ADSORBED 2.719E-03 2.471E-03 2.240E-03 2.027E-03 1.834E-03 1.658E-03 1.501E-03 1.361E-03 1.234E-03 1.121E-03 1.018E-03 9.254E-04
SOIL AIR 1.530E-04 1.408E-04 1.290E-04 1.179E-04 1.063E-04 9.591E-05 8.536E-05 7.682E-05 6.914E-05 6.205E-05 5.637E-05 5.127E-05
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.483E+00 2.637E+00 2.853E+00 3.103E+00 3.300E+00 3.486E+00 3.592E+00 3.623E+00

3.632E+00 3.637E+00 3.645E+00 3.657E+00
1 YEAR - 3 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.860E+03
TOTAL DEGRADED (MOISTURE)	2.434E+05

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.410E-04
ADSORBED SOIL (UG/G)	1.676E-03
SOIL AIR (UG/ML)	9.533E-05
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.657E-02

1

YEAR - 4 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222

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 SUR. RUNOFF (CM)        2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)        0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)              2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)           1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)             1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                        -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                         ----------------------------------------


                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER   0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER   0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 2.585E+02 2.202E+02 1.719E+02 1.313E+02 1.109E+02 9.675E+01 9.100E+01 9.121E+01
8.835E+01 8.434E+01 8.140E+01 7.936E+01
 DEGRAD MOIS 9.788E+03 9.007E+03 8.372E+03 7.773E+03 7.094E+03 6.444E+03 5.790E+03 5.170E+03
4.640E+03 4.173E+03 3.756E+03 3.377E+03
 IN SOIL MOI 3.116E+03 2.866E+03 2.661E+03 2.468E+03 2.252E+03 2.045E+03 1.838E+03 1.642E+03
1.474E+03 1.327E+03 1.194E+03 1.075E+03
 ADS ON SOIL 9.793E+04 8.898E+04 8.068E+04 7.300E+04 6.603E+04 5.971E+04 5.405E+04 4.899E+04
4.444E+04 4.034E+04 3.665E+04 3.332E+04
 IN SOIL AIR 3.543E+02 3.185E+02 2.780E+02 2.407E+02 2.127E+02 1.900E+02 1.720E+02 1.599E+02
1.471E+02 1.345E+02 1.244E+02 1.156E+02

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1
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SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.216E-04 2.014E-04 1.826E-04 1.652E-04 1.494E-04 1.351E-04 1.223E-04 1.109E-04 1.006E-04 9.129E-05 8.293E-05 7.540E-05
%SOLUBILITY 1.266E-04 1.151E-04 1.043E-04 9.440E-05 8.539E-05 7.722E-05 6.990E-05 6.335E-05 5.746E-05 5.217E-05 4.739E-05 4.308E-05
ADSORBED 8.421E-04 7.652E-04 6.938E-04 6.278E-04 5.678E-04 5.135E-04 4.648E-04 4.213E-04 3.821E-04 3.469E-04 3.151E-04 2.865E-04
SOIL AIR 4.739E-05 4.362E-05 3.995E-05 3.651E-05 3.291E-05 2.970E-05 2.643E-05 2.378E-05 2.140E-05 1.921E-05 1.745E-05 1.587E-05
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.697E+00 3.851E+00 4.067E+00 4.317E+00 4.514E+00 4.699E+00 4.806E+00 4.837E+00 4.845E+00 4.851E+00 4.859E+00 4.870E+00

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.505E+03
TOTAL DEGRADED (MOISTURE)	7.538E+04

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.366E-04
ADSORBED SOIL (UG/G)	5.189E-04
SOIL AIR (UG/ML)	2.952E-05
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 4.870E-02

1

YEAR - 5 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

```
                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 8.003E+01 6.819E+01 5.321E+01 4.066E+01 3.433E+01 2.996E+01 2.818E+01 2.825E+01
2.737E+01 2.613E+01 2.522E+01 2.459E+01
 DEGRAD MOIS 3.031E+03 2.789E+03 2.592E+03 2.407E+03 2.197E+03 1.996E+03 1.793E+03 1.601E+03
1.437E+03 1.293E+03 1.164E+03 1.046E+03
 IN SOIL MOI 9.647E+02 8.874E+02 8.241E+02 7.644E+02 6.975E+02 6.335E+02 5.694E+02 5.087E+02
4.568E+02 4.110E+02 3.701E+02 3.329E+02
 ADS ON SOIL 3.032E+04 2.755E+04 2.498E+04 2.261E+04 2.045E+04 1.849E+04 1.674E+04 1.518E+04
1.377E+04 1.250E+04 1.135E+04 1.032E+04
 IN SOIL AIR 1.097E+02 9.863E+01 8.608E+01 7.455E+01 6.588E+01 5.886E+01 5.327E+01 4.952E+01
4.557E+01 4.167E+01 3.855E+01 3.581E+01

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6
```

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 6.862E-05 6.235E-05 5.654E-05 5.116E-05 4.628E-05 4.185E-05 3.789E-05 3.434E-05 3.116E-05 2.828E-05 2.569E-05 2.336E-05
%SOLUBILITY 3.921E-05 3.563E-05 3.231E-05 2.923E-05 2.644E-05 2.392E-05 2.165E-05 1.963E-05 1.780E-05 1.616E-05 1.468E-05 1.335E-05
ADSORBED 2.607E-04 2.369E-04 2.148E-04 1.944E-04 1.759E-04 1.590E-04 1.440E-04 1.305E-04 1.184E-04 1.075E-04 9.763E-05 8.876E-05
SOIL AIR 1.467E-05 1.351E-05 1.237E-05 1.131E-05 1.019E-05 9.199E-06 8.187E-06 7.367E-06 6.631E-06 5.951E-06 5.406E-06 4.917E-06
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 4.910E+00 5.064E+00 5.281E+00 5.531E+00 5.728E+00 5.913E+00 6.019E+00 6.050E+00 6.059E+00 6.064E+00 6.072E+00 6.084E+00
1 YEAR - 5 ANNUAL SUMMARY REPORT
==========

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.661E+02
TOTAL DEGRADED (MOISTURE)	2.335E+04

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.229E-05
ADSORBED SOIL (UG/G)	1.607E-04
SOIL AIR (UG/ML)	9.142E-06
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 6.084E-02

YEAR - 6 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E-00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 2.479E+01 2.112E+01 1.648E+01 1.260E+01 1.063E+01 9.280E+00 8.729E+00 8.750E+00
8.476E+00 8.091E+00 7.809E+00 7.613E+00
DEGRAD MOIS 9.388E+02 8.639E+02 8.030E+02 7.456E+02 6.805E+02 6.181E+02 5.554E+02 4.959E+02
4.451E+02 4.003E+02 3.603E+02 3.240E+02
IN SOIL MOI 2.989E+02 2.749E+02 2.553E+02 2.368E+02 2.160E+02 1.962E+02 1.763E+02 1.575E+02
1.415E+02 1.273E+02 1.146E+02 1.031E+02
ADS ON SOIL 9.393E+03 8.535E+03 7.739E+03 7.002E+03 6.334E+03 5.728E+03 5.185E+03 4.700E+03
4.263E+03 3.870E+03 3.516E+03 3.196E+03
IN SOIL AIR 3.398E+01 3.055E+01 2.666E+01 2.309E+01 2.041E+01 1.823E+01 1.650E+01 1.534E+01
1.411E+01 1.290E+01 1.194E+01 1.109E+01

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.126E-05 1.931E-05 1.751E-05 1.585E-05 1.433E-05 1.296E-05 1.173E-05 1.064E-05 9.648E-06 8.758E-06 7.956E-06 7.233E-06
%SOLUBILITY 1.215E-05 1.104E-05 1.001E-05 9.055E-06 8.191E-06 7.407E-06 6.705E-06 6.078E-06 5.513E-06 5.005E-06 4.546E-06 4.133E-06
ADSORBED 8.078E-05 7.340E-05 6.655E-05 6.021E-05 5.447E-05 4.926E-05 4.459E-05 4.042E-05 3.666E-05 3.328E-05 3.023E-05 2.749E-05
SOIL AIR 4.545E-06 4.184E-06 3.832E-06 3.502E-06 3.157E-06 2.849E-06 2.535E-06 2.281E-06 2.053E-06 1.843E-06 1.674E-06 1.523E-06
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 6.124E+00 6.278E+00 6.494E+00 6.744E+00 6.941E+00 7.126E+00 7.233E+00 7.264E+00 7.273E+00 7.278E+00 7.286E+00 7.297E+00
1 YEAR - 6 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.444E+02
TOTAL DEGRADED (MOISTURE)	7.231E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.310E-05
ADSORBED SOIL (UG/G)	4.978E-05
SOIL AIR (UG/ML)	2.832E-06
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 7.297E-02

1

YEAR - 7 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	7.678E+00	6.541E+00	5.105E+00	3.901E+00	3.293E+00	2.874E+00	2.703E+00	2.710E+00				

2.625E+00 2.506E+00 2.419E+00 2.358E+00
DEGRAD MOIS 2.907E+02 2.675E+02 2.487E+02 2.309E+02 2.107E+02 1.914E+02 1.720E+02 1.536E+02
1.379E+02 1.240E+02 1.116E+02 1.003E+02
IN SOIL MOI 9.255E+01 8.512E+01 7.905E+01 7.333E+01 6.691E+01 6.077E+01 5.462E+01 4.880E+01
4.381E+01 3.942E+01 3.549E+01 3.193E+01
ADS ON SOIL 2.909E+03 2.643E+03 2.397E+03 2.169E+03 1.962E+03 1.774E+03 1.606E+03 1.456E+03
1.320E+03 1.199E+03 1.089E+03 9.898E+02
IN SOIL AIR 1.052E+01 9.462E+00 8.258E+00 7.151E+00 6.320E+00 5.646E+00 5.109E+00 4.750E+00
4.371E+00 3.996E+00 3.697E+00 3.434E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 6.583E-06 5.981E-06 5.423E-06 4.907E-06 4.439E-06 4.015E-06 3.634E-06 3.294E-06 2.988E-06 2.712E-06 2.464E-06 2.240E-06
%SOLUBILITY 3.761E-06 3.418E-06 3.099E-06 2.804E-06 2.537E-06 2.294E-06 2.077E-06 1.882E-06 1.708E-06 1.550E-06 1.408E-06 1.280E-06
ADSORBED 2.501E-05 2.273E-05 2.061E-05 1.865E-05 1.687E-05 1.526E-05 1.381E-05 1.252E-05 1.136E-05 1.031E-05 9.363E-06 8.512E-06
SOIL AIR 1.408E-06 1.296E-06 1.187E-06 1.085E-06 9.778E-07 8.824E-07 7.853E-07 7.066E-07 6.360E-07 5.708E-07 5.185E-07 4.716E-07
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 7.337E+00 7.492E+00 7.708E+00 7.958E+00 8.155E+00 8.340E+00 8.447E+00 8.477E+00 8.486E+00 8.492E+00 8.499E+00 8.511E+00
1 YEAR - 7 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.471E+01
TOTAL DEGRADED (MOISTURE)	2.239E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.057E-06
ADSORBED SOIL (UG/G)	1.542E-05
SOIL AIR (UG/ML)	8.769E-07
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 8.511E-02

1

YEAR - 8 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	2.378E+00	2.025E+00	1.580E+00	1.208E+00	1.019E+00	8.895E-01	8.365E-01	8.384E-01	8.121E-01	7.751E-01	7.479E-01	7.290E-01
DEGRAD MOIS	9.003E+01	8.284E+01	7.699E+01	7.147E+01	6.523E+01	5.925E+01	5.323E+01	4.752E+01	4.264E+01	3.835E+01	3.451E+01	3.102E+01
IN SOIL MOI	2.866E+01	2.636E+01	2.447E+01	2.270E+01	2.071E+01	1.880E+01	1.690E+01	1.510E+01	1.355E+01	1.219E+01	1.097E+01	9.870E+00
ADS ON SOIL	9.007E+02	8.184E+02	7.419E+02	6.712E+02	6.071E+02	5.490E+02	4.969E+02	4.503E+02	4.084E+02	3.707E+02	3.367E+02	3.060E+02
IN SOIL AIR	3.258E+00	2.929E+00	2.556E+00	2.214E+00	1.956E+00	1.747E+00	1.581E+00	1.469E+00	1.352E+00	1.236E+00	1.143E+00	1.062E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.038E-06 1.852E-06 1.679E-06 1.519E-06 1.374E-06 1.242E-06 1.124E-06 1.019E-06 9.242E-07 8.389E-07 7.618E-07 6.925E-07
%SOLUBILITY 1.165E-06 1.058E-06 9.594E-07 8.680E-07 7.851E-07 7.099E-07 6.425E-07 5.823E-07 5.281E-07 4.794E-07 4.353E-07 3.957E-07
ADSORBED 7.746E-06 7.037E-06 6.380E-06 5.772E-06 5.221E-06 4.721E-06 4.273E-06 3.873E-06 3.512E-06 3.188E-06 2.895E-06 2.631E-06
SOIL AIR 4.359E-07 4.011E-07 3.674E-07 3.358E-07 3.026E-07 2.730E-07 2.430E-07 2.186E-07 1.967E-07 1.765E-07 1.603E-07 1.458E-07
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 8.551E+00 8.705E+00 8.922E+00 9.171E+00 9.369E+00 9.554E+00 9.660E+00 9.691E+00 9.700E+00 9.705E+00 9.713E+00 9.725E+00

1 YEAR - 8 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.384E+01
TOTAL DEGRADED (MOISTURE)	6.931E+02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.255E-06
ADSORBED SOIL (UG/G)	4.771E-06
SOIL AIR (UG/ML)	2.714E-07
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 9.725E-02

1

YEAR - 9 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)					3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061

1.211 0.844 0.918 1.071
NET INFILT. (CM) 0.218 0.850 1.195 1.380 1.087 1.020 0.585 0.165
0.045 0.025 0.039 0.061
EVAPOTRANS. (CM) 0.340 0.523 0.597 0.722 0.759 0.777 0.602 0.357
0.150 0.106 0.130 0.197
MOIS. RETEN (CM) -0.190 0.254 0.508 0.540 0.191 0.095 -0.159 -0.317
-0.222 -0.190 -0.190 -0.222
SUR. RUNOFF (CM) 2.810 5.091 7.007 9.068 6.176 5.242 3.068 0.896
1.166 0.819 0.879 1.010
GRW. RUNOFF (CM) 0.069 0.073 0.090 0.118 0.137 0.148 0.142 0.126
0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN	JUL	AUG	SEP					
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	7.350E-01	6.259E-01	4.883E-01	3.730E-01	3.148E-01	2.746E-01	2.582E-01	2.587E-01
2.504E-01	2.390E-01	2.305E-01	2.245E-01					
DEGRAD MOIS	2.783E+01	2.560E+01	2.379E+01	2.208E+01	2.014E+01	1.829E+01	1.643E+01	1.466E+01
1.315E+01	1.182E+01	1.063E+01	9.555E+00					
IN SOIL MOI	8.858E+00	8.144E+00	7.561E+00	7.010E+00	6.393E+00	5.805E+00	5.214E+00	4.656E+00
4.178E+00	3.758E+00	3.381E+00	3.039E+00					
ADS ON SOIL	2.784E+02	2.529E+02	2.292E+02	2.073E+02	1.875E+02	1.695E+02	1.533E+02	1.389E+02
1.259E+02	1.143E+02	1.037E+02	9.423E+01					
IN SOIL AIR	1.007E+00	9.053E-01	7.898E-01	6.836E-01	6.039E-01	5.393E-01	4.878E-01	4.532E-01
4.168E-01	3.809E-01	3.522E-01	3.269E-01					

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 6.300E-07 5.723E-07 5.187E-07 4.691E-07 4.242E-07 3.835E-07 3.470E-07 3.143E-07 2.850E-07 2.585E-07 2.347E-07 2.132E-07
%SOLUBILITY 3.600E-07 3.270E-07 2.964E-07 2.681E-07 2.424E-07 2.191E-07 1.983E-07 1.796E-07 1.628E-07 1.477E-07 1.341E-07 1.218E-07
ADSORBED 2.394E-06 2.175E-06 1.971E-06 1.783E-06 1.612E-06 1.457E-06 1.318E-06 1.194E-06 1.083E-06 9.825E-07 8.919E-07 8.103E-07
SOIL AIR 1.347E-07 1.240E-07 1.135E-07 1.037E-07 9.344E-08 8.429E-08 7.497E-08 6.742E-08 6.065E-08 5.441E-08 4.939E-08 4.489E-08
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 9.765E+00 9.919E+00 1.014E+01 1.039E+01 1.058E+01 1.077E+01 1.087E+01 1.090E+01 1.091E+01 1.092E+01 1.093E+01 1.094E+01

1 YEAR - 9 ANNUAL SUMMARY REPORT

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.273E+00
TOTAL DEGRADED (MOISTURE)	2.140E+02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.875E-07
ADSORBED SOIL (UG/G)	1.473E-06
SOIL AIR (UG/ML)	8.378E-08
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.094E-01

1

YEAR -10 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105				

3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	2.262E-01	1.927E-01	1.502E-01	1.146E-01	9.666E-02	8.427E-02	7.918E-02	7.921E-02	7.669E-02	7.304E-02	7.033E-02	6.843E-02
DEGRAD MOIS	8.566E+00	7.879E+00	7.315E+00	6.786E+00	6.186E+00	5.613E+00	5.038E+00	4.489E+00	4.027E+00	3.614E+00	3.245E+00	2.912E+00
IN SOIL MOI	2.726E+00	2.506E+00	2.324E+00	2.154E+00	1.962E+00	1.782E+00	1.598E+00	1.425E+00	1.279E+00	1.148E+00	1.031E+00	9.279E-01
ADS ON SOIL	8.568E+01	7.780E+01	7.044E+01	6.370E+01	5.753E+01	5.201E+01	4.699E+01	4.251E+01	3.854E+01	3.489E+01	3.162E+01	2.877E+01
IN SOIL AIR	3.100E-01	2.785E-01	2.427E-01	2.101E-01	1.854E-01	1.655E-01	1.495E-01	1.387E-01	1.276E-01	1.163E-01	1.074E-01	9.980E-02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.939E-07 1.761E-07 1.594E-07 1.442E-07 1.302E-07 1.177E-07 1.063E-07 9.620E-08 8.721E-08 7.896E-08 7.156E-08 6.510E-08
%SOLUBILITY 1.108E-07 1.006E-07 9.109E-08 8.237E-08 7.440E-08 6.726E-08 6.077E-08 5.497E-08 4.983E-08 4.512E-08 4.089E-08 3.720E-08
ADSORBED 7.368E-07 6.690E-07 6.058E-07 5.478E-07 4.948E-07 4.473E-07 4.041E-07 3.656E-07 3.314E-07 3.000E-07 2.719E-07 2.474E-07
SOIL AIR 4.146E-08 3.813E-08 3.488E-08 3.186E-08 2.868E-08 2.587E-08 2.298E-08 2.064E-08 1.856E-08 1.662E-08 1.506E-08 1.371E-08
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.098E+01 1.113E+01 1.135E+01 1.160E+01 1.180E+01 1.198E+01 1.209E+01 1.212E+01 1.213E+01 1.213E+01 1.214E+01 1.215E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232

TOTAL GRW RUNOFF (CM) 1.314
TOTAL MOISTURE RETENTION (CM) 0.095
TOTAL YIELD (CM) 44.546
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED 1.311E+00
TOTAL DEGRADED (MOISTURE) 6.567E+01

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.189E-07
ADSORBED SOIL (UG/G)	4.518E-07
SOIL AIR (UG/ML)	2.570E-08
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.215E-01

1

YEAR -11 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 6.906E-02 5.861E-02 4.559E-02 3.469E-02 2.917E-02 2.535E-02 2.385E-02 2.403E-02
2.316E-02 2.188E-02 2.094E-02 2.024E-02
DEGRAD MOIS 2.615E+00 2.397E+00 2.221E+00 2.053E+00 1.867E+00 1.689E+00 1.518E+00 1.362E+00
1.216E+00 1.083E+00 9.662E-01 8.616E-01
IN SOIL MOI 8.309E-01 7.614E-01 7.045E-01 6.515E-01 5.911E-01 5.349E-01 4.839E-01 4.325E-01
3.842E-01 3.424E-01 3.062E-01 2.731E-01
ADS ON SOIL 2.612E+01 2.364E+01 2.136E+01 1.927E+01 1.733E+01 1.562E+01 1.423E+01 1.290E+01
1.158E+01 1.041E+01 9.395E+00 8.467E+00
IN SOIL AIR 9.447E-02 8.463E-02 7.359E-02 6.353E-02 5.584E-02 4.970E-02 4.527E-02 4.210E-02
3.832E-02 3.471E-02 3.190E-02 2.937E-02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 5.910E-08 5.350E-08 4.833E-08 4.360E-08 3.922E-08 3.534E-08 3.220E-08 2.920E-08 2.620E-08 2.356E-08 2.126E-08 1.916E-08
%SOLUBILITY 3.377E-08 3.057E-08 2.762E-08 2.491E-08 2.241E-08 2.019E-08 1.840E-08 1.669E-08 1.497E-08 1.346E-08 1.215E-08 1.095E-08
ADSORBED 2.246E-07 2.033E-07 1.837E-07 1.657E-07 1.490E-07 1.343E-07 1.224E-07 1.110E-07 9.956E-08 8.953E-08 8.079E-08 7.281E-08
SOIL AIR 1.264E-08 1.159E-08 1.057E-08 9.637E-09 8.639E-09 7.767E-09 6.958E-09 6.264E-09 5.576E-09 4.958E-09 4.474E-09 4.034E-09
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.219E+01 1.235E+01 1.256E+01 1.281E+01 1.301E+01 1.319E+01 1.330E+01 1.333E+01 1.334E+01 1.335E+01 1.335E+01 1.337E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED 3.966E-01
TOTAL DEGRADED (MOISTURE) 1.985E+01

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.589E-08
ADSORBED SOIL (UG/G) 1.364E-07

SOIL AIR (UG/ML) 7.759E-09
FREE LIGAND (UG/ML) 8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.337E-01

1

YEAR -12 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 2.020E-02 1.709E-02 1.330E-02 1.005E-02 8.319E-03 7.049E-03 6.573E-03 6.490E-03
6.149E-03 5.798E-03 5.461E-03 5.110E-03
DEGRAD MOIS 7.648E-01 6.990E-01 6.481E-01 5.951E-01 5.324E-01 4.695E-01 4.182E-01 3.678E-01
3.229E-01 2.869E-01 2.519E-01 2.175E-01
IN SOIL MOI 2.418E-01 2.226E-01 2.055E-01 1.875E-01 1.665E-01 1.483E-01 1.323E-01 1.155E-01
1.022E-01 9.025E-02 7.879E-02 6.842E-02
ADS ON SOIL 7.601E+00 6.911E+00 6.231E+00 5.546E+00 4.883E+00 4.331E+00 3.889E+00 3.447E+00
3.080E+00 2.744E+00 2.417E+00 2.121E+00
IN SOIL AIR 2.750E-02 2.474E-02 2.147E-02 1.829E-02 1.573E-02 1.378E-02 1.237E-02 1.125E-02
1.020E-02 9.150E-03 8.208E-03 7.358E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.720E-08 1.564E-08 1.410E-08 1.255E-08 1.105E-08 9.800E-09 8.800E-09 7.800E-09 6.970E-09 6.210E-09 5.470E-09 4.800E-09
%SOLUBILITY 9.829E-09 8.937E-09 8.057E-09 7.171E-09 6.314E-09 5.600E-09 5.029E-09 4.457E-09 3.983E-09 3.549E-09 3.126E-09 2.743E-09
ADSORBED 6.536E-08 5.943E-08 5.358E-08 4.769E-08 4.199E-08 3.724E-08 3.344E-08 2.964E-08 2.649E-08 2.360E-08 2.079E-08 1.824E-08
SOIL AIR 3.678E-09 3.388E-09 3.085E-09 2.774E-09 2.434E-09 2.154E-09 1.902E-09 1.673E-09 1.483E-09 1.307E-09 1.151E-09 1.011E-09
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.341E+01 1.356E+01 1.378E+01 1.403E+01 1.422E+01 1.441E+01 1.451E+01 1.455E+01 1.455E+01 1.456E+01 1.457E+01 1.458E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.116E-01
TOTAL DEGRADED (MOISTURE)	5.574E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.003E-08
ADSORBED SOIL (UG/G)	3.812E-08
SOIL AIR (UG/ML)	2.170E-09
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.458E-01

1

YEAR -13 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	5.347E-03	4.911E-03	4.133E-03	3.411E-03	3.111E-03	3.000E-03	3.118E-03	3.450E-03	3.686E-03	3.877E-03	4.121E-03	4.421E-03
DEGRAD MOIS	2.025E-01	2.008E-01	2.013E-01	2.019E-01	1.991E-01	1.998E-01	1.984E-01	1.955E-01	1.935E-01	1.918E-01	1.901E-01	1.881E-01
IN SOIL MOI	6.749E-02	6.689E-02	6.705E-02	6.724E-02	6.631E-02	6.660E-02	6.613E-02	6.518E-02	6.451E-02	6.395E-02	6.338E-02	6.271E-02
ADS ON SOIL	2.121E+00	2.077E+00	2.033E+00	1.989E+00	1.944E+00	1.944E+00	1.944E+00	1.944E+00	1.944E+00	1.944E+00	1.944E+00	1.944E+00
IN SOIL AIR	7.673E-03	7.435E-03	7.004E-03	6.557E-03	6.264E-03	6.188E-03	6.186E-03	6.344E-03	6.436E-03	6.483E-03	6.602E-03	6.745E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.800E-09 4.700E-09 4.600E-09 4.500E-09 4.400E-09 4.400E-09 4.400E-09 4.400E-09 4.400E-09 4.400E-09 4.400E-09 4.400E-09

%SOLUBILITY 2.743E-09 2.686E-09 2.629E-09 2.571E-09 2.514E-09 2.514E-09 2.514E-09 2.514E-09 2.514E-09 2.514E-09 2.514E-09 2.514E-09

ADSORBED 1.824E-08 1.786E-08 1.748E-08 1.710E-08 1.672E-08 1.672E-08 1.672E-08 1.672E-08

1.672E-08 1.672E-08 1.672E-08 1.672E-08
SOIL AIR 1.026E-09 1.018E-09 1.007E-09 9.947E-10 9.692E-10 9.670E-10 9.508E-10 9.438E-10
9.365E-10 9.259E-10 9.259E-10 9.263E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02
8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.462E+01 1.477E+01 1.499E+01 1.524E+01 1.544E+01 1.562E+01 1.573E+01 1.576E+01
1.577E+01 1.577E+01 1.578E+01 1.579E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.658E-02
TOTAL DEGRADED (MOISTURE)	2.363E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.483E-09
ADSORBED SOIL (UG/G)	1.704E-08
SOIL AIR (UG/ML)	9.659E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	1.579E-01

1

YEAR -14 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

```
JUN       JUL       AUG       SEP

 MOIS. IN L1 (%)       16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 MOIS. BELOW L1 (%)    16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 PRECIPATION (CM)       3.029    5.941    8.201   10.448    7.262    6.262    3.653    1.061
1.211    0.844    0.918    1.071
 NET INFILT. (CM)       0.218    0.850    1.195    1.380    1.087    1.020    0.585    0.165
0.045    0.025    0.039    0.061
 EVAPOTRANS. (CM)       0.340    0.523    0.597    0.722    0.759    0.777    0.602    0.357
0.150    0.106    0.130    0.197
 MOIS. RETEN (CM)      -0.190    0.254    0.508    0.540    0.191    0.095   -0.159   -0.317
-0.222   -0.190   -0.190   -0.222
 SUR. RUNOFF (CM)       2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)       0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)             2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)          1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)            1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------

                OCT       NOV       DEC       JAN       FEB       MAR       APR       MAY
JUN       JUL       AUG       SEP

 PRECIP.     0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.901E-03 4.494E-03 3.775E-03 3.109E-03 2.897E-03 2.795E-03 2.905E-03 3.215E-03
3.434E-03 3.613E-03 3.840E-03 4.119E-03
 DEGRAD MOIS 1.856E-01 1.838E-01 1.839E-01 1.840E-01 1.854E-01 1.862E-01 1.848E-01 1.822E-01
1.803E-01 1.788E-01 1.772E-01 1.753E-01
 IN SOIL MOI 6.186E-02 6.120E-02 6.122E-02 6.126E-02 6.179E-02 6.206E-02 6.162E-02 6.073E-02
6.012E-02 5.959E-02 5.906E-02 5.844E-02
 ADS ON SOIL 1.944E+00 1.900E+00 1.856E+00 1.812E+00 1.812E+00 1.812E+00 1.812E+00 1.812E+00
1.812E+00 1.812E+00 1.812E+00 1.812E+00
 IN SOIL AIR 7.034E-03 6.802E-03 6.395E-03 5.975E-03 5.837E-03 5.766E-03 5.764E-03 5.912E-03
5.997E-03 6.041E-03 6.152E-03 6.285E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4
```

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.400E-09 4.300E-09 4.200E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09 4.100E-09
%SOLUBILITY 2.514E-09 2.457E-09 2.400E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09 2.343E-09
ADSORBED 1.672E-08 1.634E-08 1.596E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08 1.558E-08
SOIL AIR 9.409E-10 9.314E-10 9.190E-10 9.062E-10 9.031E-10 9.011E-10 8.859E-10 8.795E-10 8.726E-10 8.627E-10 8.627E-10 8.631E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.583E+01 1.599E+01 1.620E+01 1.645E+01 1.665E+01 1.684E+01 1.694E+01 1.697E+01

1.698E+01 1.699E+01 1.700E+01 1.701E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.310E-02
TOTAL DEGRADED (MOISTURE)	2.188E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	4.150E-09
ADSORBED SOIL (UG/G)	1.577E-08
SOIL AIR (UG/ML)	8.940E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.701E-01

1

YEAR -15 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317

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 SUR. RUNOFF (CM)       2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)       0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)             2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)          1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)            1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------


                OCT       NOV       DEC       JAN       FEB       MAR       APR       MAY
JUN       JUL       AUG       SEP

 PRECIP.     0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.567E-03 4.280E-03 3.595E-03 2.958E-03 2.755E-03 2.659E-03 2.763E-03 3.058E-03
3.267E-03 3.437E-03 3.653E-03 3.918E-03
 DEGRAD MOIS 1.729E-01 1.750E-01 1.751E-01 1.751E-01 1.763E-01 1.771E-01 1.758E-01 1.733E-01
1.715E-01 1.700E-01 1.685E-01 1.668E-01
 IN SOIL MOI 5.764E-02 5.835E-02 5.830E-02 5.827E-02 5.878E-02 5.903E-02 5.861E-02 5.777E-02
5.718E-02 5.668E-02 5.618E-02 5.559E-02
 ADS ON SOIL 1.812E+00 1.812E+00 1.768E+00 1.723E+00 1.723E+00 1.723E+00 1.723E+00 1.723E+00
1.723E+00 1.723E+00 1.723E+00 1.723E+00
 IN SOIL AIR 6.554E-03 6.486E-03 6.090E-03 5.683E-03 5.552E-03 5.485E-03 5.483E-03 5.623E-03
5.705E-03 5.746E-03 5.852E-03 5.979E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1
```

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.100E-09 4.100E-09 4.000E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09 3.900E-09
%SOLUBILITY 2.343E-09 2.343E-09 2.286E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09 2.229E-09
ADSORBED 1.558E-08 1.558E-08 1.520E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08 1.482E-08
SOIL AIR 8.767E-10 8.880E-10 8.752E-10 8.620E-10 8.590E-10 8.572E-10 8.427E-10 8.366E-10 8.301E-10 8.207E-10 8.207E-10 8.210E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.705E+01 1.720E+01 1.742E+01 1.767E+01 1.786E+01 1.805E+01 1.816E+01 1.819E+01 1.820E+01 1.820E+01 1.821E+01 1.822E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.091E-02
TOTAL DEGRADED (MOISTURE)	2.078E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.942E-09
ADSORBED SOIL (UG/G)	1.498E-08
SOIL AIR (UG/ML)	8.492E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.822E-01

1

YEAR -16 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317
SUR. RUNOFF (CM)	1.166	0.819	0.879	1.010	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896
GRW. RUNOFF (CM)	0.117	0.110	0.099	0.087	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126
YIELD (CM)	1.284	0.929	0.978	1.097	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022
PAU/MPA (GZU)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105
PA/MPA (GZ)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105

1

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

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                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E-00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.344E-03 4.071E-03 3.501E-03 2.882E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03
3.183E-03 3.349E-03 3.559E-03 3.818E-03
 DEGRAD MOIS 1.645E-01 1.665E-01 1.705E-01 1.706E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
 IN SOIL MOI 5.483E-02 5.550E-02 5.685E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
 ADS ON SOIL 1.723E+00 1.723E+00 1.723E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
 IN SOIL AIR 6.234E-03 6.169E-03 5.938E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6
```

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.900E-09 3.900E-09 3.900E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.229E-09 2.229E-09 2.229E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.482E-08 1.482E-08 1.482E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.340E-10 8.447E-10 8.533E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.826E+01 1.841E+01 1.863E+01 1.888E+01 1.908E+01 1.926E+01 1.937E+01 1.940E+01 1.941E+01 1.941E+01 1.942E+01 1.943E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.965E-02
TOTAL DEGRADED (MOISTURE)	2.016E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.825E-09
ADSORBED SOIL (UG/G)	1.453E-08
SOIL AIR (UG/ML)	8.240E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.943E-01

1

YEAR -17 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03
3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.947E+01 1.963E+01 1.984E+01 2.009E+01 2.029E+01 2.048E+01 2.058E+01 2.061E+01 2.062E+01 2.063E+01 2.064E+01 2.065E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.069E+01 2.084E+01 2.106E+01 2.131E+01 2.150E+01 2.169E+01 2.180E+01 2.183E+01 2.184E+01 2.184E+01 2.185E+01 2.186E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.186E-01

1

YEAR -19 MONTHLY RESULTS (OUTPUT)

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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03	3.183E-03	3.349E-03	3.559E-03	3.818E-03
DEGRAD MOIS	1.603E-01	1.622E-01	1.662E-01	1.703E-01	1.718E-01	1.726E-01	1.713E-01	1.689E-01	1.672E-01	1.657E-01	1.642E-01	1.625E-01
IN SOIL MOI	5.343E-02	5.408E-02	5.539E-02	5.678E-02	5.727E-02	5.752E-02	5.711E-02	5.629E-02	5.572E-02	5.523E-02	5.473E-02	5.416E-02
ADS ON SOIL	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00
IN SOIL AIR	6.074E-03	6.011E-03	5.786E-03	5.537E-03	5.410E-03	5.344E-03	5.343E-03	5.479E-03	5.558E-03	5.599E-03	5.702E-03	5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.190E+01 2.206E+01 2.227E+01 2.252E+01 2.272E+01 2.290E+01 2.301E+01 2.304E+01 2.305E+01 2.306E+01 2.306E+01 2.307E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.307E-01

1

YEAR -20 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061				

1.211 0.844 0.918 1.071
NET INFILT. (CM) 0.218 0.850 1.195 1.380 1.087 1.020 0.585 0.165
0.045 0.025 0.039 0.061
EVAPOTRANS. (CM) 0.340 0.523 0.597 0.722 0.759 0.777 0.602 0.357
0.150 0.106 0.130 0.197
MOIS. RETEN (CM) -0.190 0.254 0.508 0.540 0.191 0.095 -0.159 -0.317
-0.222 -0.190 -0.190 -0.222
SUR. RUNOFF (CM) 2.810 5.091 7.007 9.068 6.176 5.242 3.068 0.896
1.166 0.819 0.879 1.010
GRW. RUNOFF (CM) 0.069 0.073 0.090 0.118 0.137 0.148 0.142 0.126
0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN	JUL	AUG	SEP					
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03
3.183E-03	3.349E-03	3.559E-03	3.818E-03					
DEGRAD MOIS	1.603E-01	1.622E-01	1.662E-01	1.703E-01	1.718E-01	1.726E-01	1.713E-01	1.689E-01
1.672E-01	1.657E-01	1.642E-01	1.625E-01					
IN SOIL MOI	5.343E-02	5.408E-02	5.539E-02	5.678E-02	5.727E-02	5.752E-02	5.711E-02	5.629E-02
5.572E-02	5.523E-02	5.473E-02	5.416E-02					
ADS ON SOIL	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00
1.679E+00	1.679E+00	1.679E+00	1.679E+00					
IN SOIL AIR	6.074E-03	6.011E-03	5.786E-03	5.537E-03	5.410E-03	5.344E-03	5.343E-03	5.479E-03
5.558E-03	5.599E-03	5.702E-03	5.825E-03					

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.311E+01 2.327E+01 2.349E+01 2.374E+01 2.393E+01 2.412E+01 2.422E+01 2.425E+01 2.426E+01 2.427E+01 2.428E+01 2.429E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.429E-01

1

YEAR -21 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105				

3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03	3.183E-03	3.349E-03	3.559E-03	3.818E-03
DEGRAD MOIS	1.603E-01	1.622E-01	1.662E-01	1.703E-01	1.718E-01	1.726E-01	1.713E-01	1.689E-01	1.672E-01	1.657E-01	1.642E-01	1.625E-01
IN SOIL MOI	5.343E-02	5.408E-02	5.539E-02	5.678E-02	5.727E-02	5.752E-02	5.711E-02	5.629E-02	5.572E-02	5.523E-02	5.473E-02	5.416E-02
ADS ON SOIL	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00
IN SOIL AIR	6.074E-03	6.011E-03	5.786E-03	5.537E-03	5.410E-03	5.344E-03	5.343E-03	5.479E-03	5.558E-03	5.599E-03	5.702E-03	5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.433E+01 2.448E+01 2.470E+01 2.495E+01 2.515E+01 2.533E+01 2.544E+01 2.547E+01 2.548E+01 2.548E+01 2.549E+01 2.550E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232

TOTAL GRW RUNOFF (CM) 1.314
TOTAL MOISTURE RETENTION (CM) 0.095
TOTAL YIELD (CM) 44.546
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED 3.934E-02
TOTAL DEGRADED (MOISTURE) 2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.550E-01

1

YEAR -22 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03 3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01 1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02 5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03 5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.554E+01 2.570E+01 2.591E+01 2.616E+01 2.636E+01 2.654E+01 2.665E+01 2.668E+01 2.669E+01 2.670E+01 2.670E+01 2.672E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED 3.934E-02
TOTAL DEGRADED (MOISTURE) 2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.800E-09
ADSORBED SOIL (UG/G) 1.444E-08

SOIL AIR (UG/ML) 8.186E-10
FREE LIGAND (UG/ML) 8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.672E-01

1

YEAR -23 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317
SUR. RUNOFF (CM)	1.166	0.819	0.879	1.010	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896
GRW. RUNOFF (CM)	0.117	0.110	0.099	0.087	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126
YIELD (CM)	1.284	0.929	0.978	1.097	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022
PAU/MPA (GZU)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105
PA/MPA (GZ)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03 3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01 1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02 5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03 5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.676E+01 2.691E+01 2.713E+01 2.738E+01 2.757E+01 2.776E+01 2.786E+01 2.790E+01 2.790E+01 2.791E+01 2.792E+01 2.793E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.793E-01

1

YEAR -24 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03	3.183E-03	3.349E-03	3.559E-03	3.818E-03
DEGRAD MOIS	1.603E-01	1.622E-01	1.662E-01	1.703E-01	1.718E-01	1.726E-01	1.713E-01	1.689E-01	1.672E-01	1.657E-01	1.642E-01	1.625E-01
IN SOIL MOI	5.343E-02	5.408E-02	5.539E-02	5.678E-02	5.727E-02	5.752E-02	5.711E-02	5.629E-02	5.572E-02	5.523E-02	5.473E-02	5.416E-02
ADS ON SOIL	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00
IN SOIL AIR	6.074E-03	6.011E-03	5.786E-03	5.537E-03	5.410E-03	5.344E-03	5.343E-03	5.479E-03	5.558E-03	5.599E-03	5.702E-03	5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09

%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09

ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08

1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10
8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02
8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.797E+01 2.812E+01 2.834E+01 2.859E+01 2.879E+01 2.897E+01 2.908E+01 2.911E+01
2.912E+01 2.912E+01 2.913E+01 2.914E+01
1 YEAR - 24 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	2.914E-01

1

YEAR -25 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

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JUN       JUL       AUG       SEP

 MOIS. IN L1 (%)        16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 MOIS. BELOW L1 (%)     16.322   16.522   16.922   17.347   17.497   17.572   17.447   17.197
17.022   16.872   16.722   16.547
 PRECIPATION (CM)        3.029    5.941    8.201   10.448    7.262    6.262    3.653    1.061
1.211    0.844    0.918    1.071
 NET INFILT. (CM)        0.218    0.850    1.195    1.380    1.087    1.020    0.585    0.165
0.045    0.025    0.039    0.061
 EVAPOTRANS. (CM)        0.340    0.523    0.597    0.722    0.759    0.777    0.602    0.357
0.150    0.106    0.130    0.197
 MOIS. RETEN (CM)       -0.190    0.254    0.508    0.540    0.191    0.095   -0.159   -0.317
-0.222   -0.190   -0.190   -0.222
 SUR. RUNOFF (CM)        2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)        0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)              2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)           1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)             1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                        -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                         ----------------------------------------

                OCT       NOV       DEC       JAN       FEB       MAR       APR       MAY
JUN       JUL       AUG       SEP

 PRECIP.     0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03
3.183E-03 3.349E-03 3.559E-03 3.818E-03
 DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
 IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
 ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
 IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4
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SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.918E+01 2.934E+01 2.955E+01 2.980E+01 3.000E+01 3.019E+01 3.029E+01 3.032E+01

3.033E+01 3.034E+01 3.034E+01 3.036E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.036E-01

1

YEAR -26 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317

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 SUR. RUNOFF (CM)       2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)       0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)             2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)          1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)            1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------


                OCT       NOV       DEC       JAN       FEB       MAR       APR       MAY
JUN       JUL       AUG       SEP

 PRECIP.     0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03
3.183E-03 3.349E-03 3.559E-03 3.818E-03
 DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
 IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
 ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
 IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1
```

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.040E+01 3.055E+01 3.077E+01 3.102E+01 3.121E+01 3.140E+01 3.151E+01 3.154E+01 3.155E+01 3.155E+01 3.156E+01 3.157E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.157E-01

1

YEAR -27 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

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                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03
3.183E-03 3.349E-03 3.559E-03 3.818E-03
 DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
 IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
 ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
 IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6
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LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.161E+01 3.176E+01 3.198E+01 3.223E+01 3.243E+01 3.261E+01 3.272E+01 3.275E+01 3.276E+01 3.276E+01 3.277E+01 3.278E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.278E-01

1

YEAR -28 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 4.233E-03 3.967E-03 3.411E-03 2.878E-03 2.685E-03 2.591E-03 2.693E-03 2.980E-03 3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01 1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02 5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03 5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.282E+01 3.298E+01 3.319E+01 3.344E+01 3.364E+01 3.383E+01 3.393E+01 3.396E+01 3.397E+01 3.398E+01 3.399E+01 3.400E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.400E-01

1

YEAR -29 MONTHLY RESULTS (OUTPUT)
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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03

3.183E-03 3.349E-03 3.559E-03 3.818E-03
DEGRAD MOIS 1.603E-01 1.622E-01 1.662E-01 1.703E-01 1.718E-01 1.726E-01 1.713E-01 1.689E-01
1.672E-01 1.657E-01 1.642E-01 1.625E-01
IN SOIL MOI 5.343E-02 5.408E-02 5.539E-02 5.678E-02 5.727E-02 5.752E-02 5.711E-02 5.629E-02
5.572E-02 5.523E-02 5.473E-02 5.416E-02
ADS ON SOIL 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00 1.679E+00
1.679E+00 1.679E+00 1.679E+00 1.679E+00
IN SOIL AIR 6.074E-03 6.011E-03 5.786E-03 5.537E-03 5.410E-03 5.344E-03 5.343E-03 5.479E-03
5.558E-03 5.599E-03 5.702E-03 5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.404E+01 3.419E+01 3.441E+01 3.466E+01 3.485E+01 3.504E+01 3.515E+01 3.518E+01 3.519E+01 3.519E+01 3.520E+01 3.521E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.521E-01

1

YEAR -30 MONTHLY RESULTS (OUTPUT)

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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	4.233E-03	3.967E-03	3.411E-03	2.878E-03	2.685E-03	2.591E-03	2.693E-03	2.980E-03	3.183E-03	3.349E-03	3.559E-03	3.818E-03
DEGRAD MOIS	1.603E-01	1.622E-01	1.662E-01	1.703E-01	1.718E-01	1.726E-01	1.713E-01	1.689E-01	1.672E-01	1.657E-01	1.642E-01	1.625E-01
IN SOIL MOI	5.343E-02	5.408E-02	5.539E-02	5.678E-02	5.727E-02	5.752E-02	5.711E-02	5.629E-02	5.572E-02	5.523E-02	5.473E-02	5.416E-02
ADS ON SOIL	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00	1.679E+00
IN SOIL AIR	6.074E-03	6.011E-03	5.786E-03	5.537E-03	5.410E-03	5.344E-03	5.343E-03	5.479E-03	5.558E-03	5.599E-03	5.702E-03	5.825E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09 3.800E-09
%SOLUBILITY 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09 2.171E-09
ADSORBED 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08 1.444E-08
SOIL AIR 8.126E-10 8.231E-10 8.315E-10 8.399E-10 8.370E-10 8.352E-10 8.211E-10 8.151E-10 8.088E-10 7.996E-10 7.996E-10 8.000E-10
FREE LIGAND 8.605E+02 8.501E+02 8.300E+02 8.096E+02 8.027E+02 7.993E+02 8.050E+02 8.167E+02 8.251E+02 8.324E+02 8.399E+02 8.488E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.525E+01 3.540E+01 3.562E+01 3.587E+01 3.607E+01 3.625E+01 3.636E+01 3.639E+01 3.640E+01 3.640E+01 3.641E+01 3.642E+01

1 YEAR - 30 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.934E-02
TOTAL DEGRADED (MOISTURE)	2.003E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.800E-09
ADSORBED SOIL (UG/G)	1.444E-08
SOIL AIR (UG/ML)	8.186E-10
FREE LIGAND (UG/ML)	8.267E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	3.642E-01

**********EXECUTION COMPLETED**********

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**********************************************************************************************
******
 *****
*****
 ***** SESOIL-84 :  SEASONAL CYCLES OF WATER, SEDIMENT, AND POLLUTANTS IN SOIL ENVIRONMENTS
*****
 *****
*****
 ***** DEVELOPERS:  M. BONAZOUNTAS,ARTHUR D. LITTLE INC.  ,(617)864-5770,X5871
*****
 *****              J. WAGNER     ,DIS/ADLPIPE, INC.      ,(617)492-1991,X5820
*****
 *****
*****
 ***** MODIFIED EXTENSIVELY BY:
*****
 ***** D.M. HETRICK
*****
 ***** OAK RIDGE NATIONAL LABORATORY
*****
 ***** (615) 576-7556
*****
 ***** VERSION   :  SEPTEMBER 1986
*****
 *****
*****

**********************************************************************************************
******
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****** MONTHLY SESOIL MODEL OPERATION ******
MONTHLY SITE SPECIFIC SIMULATION

REGION : OAKLAND WSO AP
SOIL TYPE : SILTY CLAY
COMPOUND : DIESEL
WASHLOAD DATA :
APPLICATION AREA: NIKE MILITARY SITE, SAN LEANDRO, CA

WARNING- SOIL PERMEABILITY VARYS CONSIDERABLY AMONG LAYERS
SESOIL MAY NOT BE ACCURATE FOR SUCH AN INHOMOGENEOUS COLUMN

WARNING- SOIL PERMEABILITY VARYS CONSIDERABLY AMONG LAYERS
SESOIL MAY NOT BE ACCURATE FOR SUCH AN INHOMOGENEOUS COLUMN

GENERAL INPUT PARAMETERS

-- SOIL INPUT PARAMETERS --

SOIL DENSITY (G/CM**3):	1.35
INTRINSIC PERMEABILITY (CM**2):	.500E-10
DISCONNECTEDNESS INDEX (-):	12.0
POROSITY (-):	.250
ORGANIC CARBON CONTENT (%):	1.00
CATION EXCHANGE CAPACITY (MILLI EQ./100G DRY SOIL):	.000
FREUNDLICH EXPONENT (-):	1.00

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-- CHEMICAL INPUT PARAMETERS --

SOLUBILITY (UG/ML):	.200
DIFFUSION COEFFICIENT IN AIR (CM**2/SEC):	.460E-01
HENRYS LAW CONSTANT (M**3-ATM/MOLE):	.400E-01
ADSORPTION COEFFICIENT ON ORGANIC CARBON(KOC):	800.
ADSORPTION COEFFICIENT ON SOIL (K):	.000
MOLECULAR WEIGHT (G/MOL):	202.
VALENCE (-):	.000
NEUTRAL HYDROLYSIS CONSTANT (/DAY):	.000
BASE HYDROLYSIS CONSTANT (L/MOL-DAY):	.000
ACID HYDROLYSIS CONSTANT (L/MOL-DAY):	.000
DEGRADATION RATE IN MOISTURE (/DAY):	.100E-01
DEGRADATION RATE ON SOIL (/DAY):	.100E-01

LIGAND-POLLUTANT STABILITY CONSTANT (-): .000
NO. MOLES LIGAND/MOLE POLLUTANT (-): .000
LIGAND MOLECULAR WEIGHT (G/MOL): .000

-- APPLICATION INPUT PARAMETERS --

NUMBER OF SOIL LAYERS:	3		
YEARS TO BE SIMULATED:	30		
AREA (CM**2):	0.706E+06		
APPLICATION AREA LATITUDE (DEG.):	37.5		
SPILL (1) OR STEADY APPLICATION (0):	1		
DEPTHS (CM):	0.12E+03	0.76E+03	0.64E+03
NUMBER OF SUBLAYERS/LAYER	1	7	6
PH (CM):	7.0	7.0	7.0
INTRINSIC PERMEABILITIES (CM**2):	0.15E-08	0.50E-10	0.40E-10
KDEL RATIOS (-):	1.0	1.0	
KDES RATIOS (-):	1.0	1.0	
OC RATIOS (-):	0.00	0.00	
CEC RATIOS (-):	1.0	1.0	
FRN RATIOS(-):	1.0	1.0	
ADS RATIOS(-):	1.0	1.0	

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YEAR - 1 MONTHLY INPUT PARAMETERS

-- CLIMATIC INPUT PARAMETERS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TEMP. (DEG C)	16.000	12.380	9.550	8.830	10.330	11.270	12.940	14.940	17.110	18.660	18.660	18.500
CLOUD CVR (FRAC.)	0.400	0.500	0.600	0.600	0.550	0.550	0.500	0.450	0.300	0.300	0.300	0.300
REL. HUM.(FRAC.)	0.650	0.700	0.800	0.800	0.750	0.750	0.700	0.700	0.700	0.600	0.650	0.650
ALBEDO (-)	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
EVAPOT. (CM/DAY)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
PRECIP. (CM)	2.780	5.750	8.260	10.360	7.080	6.080	3.620	0.960	0.310	0.110	0.120	0.600
M.TIME RAIN(DAYS)	0.260	0.490	0.660	0.720	0.530	0.490	0.430	0.210	0.120	0.050	0.030	0.130
M. STORM NO. (-)	1.600	3.810	4.930	5.650	5.090	4.870	3.000	1.150	0.210	0.110	0.180	0.450
M. SEASON (DAYS)	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400	30.400

-- POLLUTANT INPUT PARAMETERS --

POL. INP-1 (UG/CM**2)	1.71E+04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRNSFORMD-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SINKS-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LIG.INPUT-1 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VOLATILIZATION MULT.-1	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00
SURFACE RUNOFF MULT.	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
POL. IN RAIN (FRAC-SL)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
POL. INP-2 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
TRNSFORMD-2 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SINKS-2 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
LIG.INPUT-2 (UG/CM**2)	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VOLATILIZATION MULT.-2	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

POL. INP-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-L 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
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YEAR - 2 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS --

POL. INP-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-1 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-1 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
SURFACE RUNOFF MULT. 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
POL. IN RAIN (FRAC-SL) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00

POL. INP-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-2 (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-2 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00

POL. INP-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
TRNSFORMD-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
SINKS-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
LIG.INPUT-L (UG/CM**2) 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
0.00E+00 0.00E+00 0.00E+00 0.00E+00
VOLATILIZATION MULT.-L 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00 1.00E+00
1.00E+00 1.00E+00 1.00E+00 1.00E+00
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YEAR - 3 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
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YEAR - 4 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
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YEAR - 5 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
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YEAR - 6 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR - 7 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR - 8 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR - 9 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -10 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -11 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -12 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -13 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -14 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -15 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -16 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -17 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -18 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -19 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -20 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -21 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -22 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -23 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -24 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -25 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -26 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -27 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -28 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -29 MONTHLY INPUT PARAMETERS
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-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

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YEAR -30 MONTHLY INPUT PARAMETERS

-- CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

-- POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR

1

YEAR - 1 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	15.972	16.222	16.697	17.172	17.347	17.447	17.347	17.122	16.947	16.797	16.647	16.472
MOIS. BELOW L1 (%)	15.972	16.222	16.697	17.172	17.347	17.447	17.347	17.122	16.947	16.797	16.647	16.472
PRECIPATION (CM)	3.164	5.887	8.419	10.467	7.118	6.182	3.671	1.174	0.958	0.578	0.726	0.916
NET INFILT. (CM)	0.236	0.862	1.248	1.403	1.079	1.017	0.593	0.184	0.036	0.018	0.031	0.053
EVAPOTRANS. (CM)	0.310	0.486	0.569	0.696	0.733	0.755	0.588	0.350	0.147	0.104	0.128	0.193
MOIS. RETEN (CM)	-0.127	0.318	0.603	0.603	0.222	0.127	-0.127	-0.286	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.928	5.025	7.170	9.063	6.038	5.165	3.078	0.990	0.923	0.560	0.695	0.863
GRW. RUNOFF (CM)	0.053	0.058	0.076	0.104	0.123	0.135	0.132	0.119	0.111	0.104	0.093	0.082
YIELD (CM)	2.981	5.083	7.247	9.168	6.162	5.300	3.210	1.109	1.034	0.664	0.789	0.945
PAU/MPA (GZU)	1.138	1.024	1.019	1.010	1.005	1.017	1.014	1.223	3.092	5.253	6.051	1.526
PA/MPA (GZ)	1.138	1.024	1.019	1.010	1.005	1.017	1.014	1.223	3.092	5.253	6.051	1.526

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	1.210E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	1.210E+10	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.223E+06 1.128E+06 9.464E+05 7.856E+05 7.261E+05 6.934E+05 7.123E+05 7.788E+05
8.314E+05 8.742E+05 9.286E+05 9.955E+05
DEGRAD MOIS 8.255E+05 8.384E+05 8.629E+05 8.875E+05 8.965E+05 9.017E+05 8.965E+05 8.849E+05
8.759E+05 8.681E+05 8.604E+05 8.513E+05
DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
IN SOIL MOI 2.752E+06 2.795E+06 2.876E+06 2.958E+06 2.988E+06 3.006E+06 2.988E+06 2.950E+06
2.920E+06 2.894E+06 2.868E+06 2.838E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.609E+06 2.569E+06 2.455E+06 2.338E+06 2.278E+06 2.243E+06 2.235E+06 2.284E+06
2.316E+06 2.332E+06 2.375E+06 2.426E+06
PURE PHASE 1.185E+10 1.179E+10 1.173E+10 1.168E+10 1.162E+10 1.156E+10 1.150E+10 1.145E+10
1.139E+10 1.133E+10 1.127E+10 1.122E+10

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 1.376E+02 1.369E+02 1.362E+02 1.355E+02 1.349E+02 1.342E+02 1.336E+02 1.329E+02 1.322E+02 1.315E+02 1.309E+02 1.302E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.061E-02 9.526E-02 2.034E-01 3.251E-01 4.188E-01 5.072E-01 5.590E-01 5.753E-01 5.788E-01 5.807E-01 5.837E-01 5.886E-01

1 YEAR - 1 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	1.210E+10
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.849
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.849
TOTAL PRECIPITATION (CM)	49.258
TOTAL INFILTRATION (CM)	6.760
TOTAL EVAPOTRANSPIRATION (CM)	5.059
TOTAL SURFACE RUNOFF (CM)	42.498
TOTAL GRW RUNOFF (CM)	1.194
TOTAL MOISTURE RETENTION (CM)	0.508
TOTAL YIELD (CM)	43.691

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.062E+07
TOTAL DEGRADED (MOISTURE)	1.045E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.607E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 5.886E-03

1

YEAR - 2 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06				

2.932E+06 2.907E+06 2.881E+06 2.851E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 1.116E+10 1.110E+10 1.104E+10 1.099E+10 1.093E+10 1.087E+10 1.081E+10 1.076E+10
1.070E+10 1.064E+10 1.058E+10 1.053E+10

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01
3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 1.295E+02 1.289E+02 1.282E+02 1.275E+02 1.269E+02 1.262E+02 1.255E+02 1.249E+02
1.242E+02 1.235E+02 1.229E+02 1.222E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 6.077E-01 6.814E-01 7.850E-01 9.047E-01 9.991E-01 1.088E+00 1.139E+00 1.154E+00
1.158E+00 1.161E+00 1.164E+00 1.170E+00
1 YEAR - 2 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.510E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.170E-02

1

YEAR - 3 MONTHLY RESULTS (OUTPUT)

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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06	2.294E+06	2.311E+06	2.354E+06	2.405E+06
PURE PHASE	1.047E+10	1.041E+10	1.035E+10	1.030E+10	1.024E+10	1.018E+10	1.012E+10	1.007E+10	1.001E+10	9.951E+09	9.893E+09	9.835E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01

%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02

ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00

SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01

PURE PHASE 1.215E+02 1.209E+02 1.202E+02 1.195E+02 1.189E+02 1.182E+02 1.175E+02 1.169E+02

1.162E+02 1.155E+02 1.148E+02 1.142E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.189E+00 1.263E+00 1.366E+00 1.486E+00 1.580E+00 1.669E+00 1.720E+00 1.735E+00
1.739E+00 1.742E+00 1.745E+00 1.751E+00
1 YEAR - 3 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.414E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.751E-02

1

YEAR - 4 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547

MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06	2.294E+06	2.311E+06	2.354E+06	2.405E+06
PURE PHASE	9.778E+09	9.720E+09	9.662E+09	9.605E+09	9.548E+09	9.490E+09	9.433E+09	9.375E+09	9.318E+09	9.260E+09	9.203E+09	9.145E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 1.135E+02 1.128E+02 1.122E+02 1.115E+02 1.108E+02 1.102E+02 1.095E+02 1.088E+02 1.082E+02 1.075E+02 1.068E+02 1.062E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.770E+00 1.844E+00 1.947E+00 2.067E+00 2.162E+00 2.250E+00 2.301E+00 2.316E+00

2.320E+00 2.323E+00 2.327E+00 2.332E+00
1 YEAR - 4 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.318E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	2.332E-02

1

YEAR - 5 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317

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 SUR. RUNOFF (CM)        2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)        0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)              2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)           1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)             1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------


                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER   0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER   0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
8.059E+05 8.478E+05 9.011E+05 9.666E+05
 DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
8.797E+05 8.720E+05 8.642E+05 8.552E+05
 DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
 IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
2.932E+06 2.907E+06 2.881E+06 2.851E+06
 ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
 IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
 PURE PHASE  9.087E+09 9.030E+09 8.972E+09 8.915E+09 8.857E+09 8.800E+09 8.743E+09 8.685E+09
8.628E+09 8.570E+09 8.512E+09 8.455E+09

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7
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SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 1.055E+02 1.048E+02 1.042E+02 1.035E+02 1.028E+02 1.022E+02 1.015E+02 1.008E+02 1.002E+02 9.949E+01 9.882E+01 9.815E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.351E+00 2.425E+00 2.529E+00 2.648E+00 2.743E+00 2.831E+00 2.883E+00 2.897E+00 2.902E+00 2.904E+00 2.908E+00 2.913E+00

1 YEAR - 5 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00

SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.222E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 2.913E-02

1

YEAR - 6 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105				

3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06	2.294E+06	2.311E+06	2.354E+06	2.405E+06
PURE PHASE	8.397E+09	8.339E+09	8.282E+09	8.224E+09	8.167E+09	8.110E+09	8.052E+09	7.995E+09	7.937E+09	7.880E+09	7.822E+09	7.764E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 9.748E+01 9.681E+01 9.614E+01 9.548E+01 9.481E+01 9.414E+01 9.348E+01 9.281E+01 9.214E+01 9.148E+01 9.081E+01 9.014E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 2.933E+00 3.006E+00 3.110E+00 3.230E+00 3.324E+00 3.413E+00 3.464E+00 3.479E+00 3.483E+00 3.485E+00 3.489E+00 3.495E+00

1 YEAR - 6 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 16.999

AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.126E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 3.495E-02

1

YEAR - 7 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
8.059E+05 8.478E+05 9.011E+05 9.666E+05
DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
8.797E+05 8.720E+05 8.642E+05 8.552E+05
DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
2.932E+06 2.907E+06 2.881E+06 2.851E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 7.707E+09 7.649E+09 7.591E+09 7.534E+09 7.477E+09 7.419E+09 7.362E+09 7.304E+09
7.247E+09 7.189E+09 7.132E+09 7.074E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 8.947E+01 8.880E+01 8.813E+01 8.746E+01 8.680E+01 8.613E+01 8.546E+01 8.480E+01 8.413E+01 8.346E+01 8.279E+01 8.212E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 3.514E+00 3.588E+00 3.691E+00 3.811E+00 3.905E+00 3.994E+00 4.045E+00 4.060E+00 4.064E+00 4.067E+00 4.070E+00 4.076E+00

1 YEAR - 7 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH

MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.030E+03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 4.076E-02

1

YEAR - 8 MONTHLY RESULTS (OUTPUT)

Chris L. Sanchez
Associate
Registered Environmental Assessor #06380
Environmental Science Associates
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email: csanchez@esassoc.com

TS --

	OV	DEC	JAN	FEB	MAR	APR	MAY
	6.522	16.922	17.347	17.497	17.572	17.447	17.197
	6.522	16.922	17.347	17.497	17.572	17.447	17.197
	5.941	8.201	10.448	7.262	6.262	3.653	1.061
	0.850	1.195	1.380	1.087	1.020	0.585	0.165

0.045 0.025

EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
0.150 0.106	0.130	0.197						
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317
-0.222 -0.190	-0.190	-0.222						
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896
1.166 0.819	0.879	1.010						
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126
0.117 0.110	0.099	0.087						
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022
1.284 0.929	0.978	1.097						
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105
3.907 7.674	7.647	1.786						
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105
3.907 7.674	7.647	1.786						

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN JUL AUG SEP								
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00								
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00								
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00								

[redacted]ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
[redacted]+00 0.000E+00 0.000E+00 0.000E+00
[redacted] LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
000E+00 0.000E+00 0.000E+00 0.000E+00

[redacted] INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
[redacted]+00 0.000E+00 0.000E+00 0.000E+00
-- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
NTH, IT IS NOT PRINTED

[redacted]----------
[redacted]--

UPPER SOIL ZONE:

[redacted] SUBLAYER 1

OLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
059E+05 8.478E+05 9.011E+05 9.666E+05
[redacted]D MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
79[redacted]+05 8.720E+05 8.642E+05 8.552E+05
[redacted]AD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
.582E+07 5.582E+07 5.582E+07 5.582E+07
N SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
.93[redacted]+06 2.907E+06 2.881E+06 2.851E+06
[redacted]N SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
.861E+08 1.861E+08 1.861E+08 1.861E+08
N SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
.294E+06 2.311E+06 2.354E+06 2.405E+06
[redacted] PHASE 7.016E+09 6.959E+09 6.901E+09 6.844E+09 6.786E+09 6.729E+09 6.672E+09 6.614E+09
.55[redacted]+09 6.499E+09 6.441E+09 6.384E+09

SOIL ZONE 2:

[redacted] SUBLAYER 1

[redacted] SUBLAYER 2

[redacted] SUBLAYER 3

[redacted] SUBLAYER 4

[redacted] SUBLAYER 5

[redacted] SUBLAYER 6

[redacted] SUBLAYER 7

[redacted] SOIL ZONE 3:

[redacted] SUBLAYER 1

[redacted] SUBLAYER 2

[redacted] SUBLAYER 3

[redacted] SUBLAYER 4

[redacted] SUBLAYER 5

[redacted] SUBLAYER 6

[redacted] LOWER SOIL ZONE:

[redacted] SUBLAYER 1

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	9.334E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 4.657E-02

1

YEAR - 9 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH

MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05 8.059E+05 8.478E+05 9.011E+05 9.666E+05
DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05 8.797E+05 8.720E+05 8.642E+05 8.552E+05
DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06 2.932E+06 2.907E+06 2.881E+06 2.851E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06 2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 6.326E+09 6.268E+09 6.211E+09 6.153E+09 6.096E+09 6.039E+09 5.981E+09 5.924E+09 5.866E+09 5.809E+09 5.751E+09 5.693E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 7.344E+01 7.277E+01 7.210E+01 7.143E+01 7.077E+01 7.010E+01 6.944E+01 6.877E+01 6.810E+01 6.743E+01 6.676E+01 6.610E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 4.676E+00 4.750E+00 4.854E+00 4.973E+00 5.068E+00 5.156E+00 5.208E+00 5.222E+00 5.227E+00 5.229E+00 5.233E+00 5.238E+00

1 YEAR - 9 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07

TOTAL DEGRADED (SOIL) 6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	8.372E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 5.238E-02

1

YEAR -10 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05 8.059E+05 8.478E+05 9.011E+05 9.666E+05
DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05 8.797E+05 8.720E+05 8.642E+05 8.552E+05
DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06 2.932E+06 2.907E+06 2.881E+06 2.851E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06 2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 5.636E+09 5.578E+09 5.520E+09 5.463E+09 5.406E+09 5.348E+09 5.291E+09 5.233E+09 5.176E+09 5.118E+09 5.061E+09 5.003E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH

MONTH, THEY ARE NOT PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 6.542E+01 6.475E+01 6.409E+01 6.342E+01 6.275E+01 6.209E+01 6.142E+01 6.075E+01 6.009E+01 5.942E+01 5.875E+01 5.808E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 5.258E+00 5.331E+00 5.435E+00 5.554E+00 5.649E+00 5.738E+00 5.789E+00 5.803E+00 5.808E+00 5.810E+00 5.814E+00 5.820E+00

1 YEAR - 10 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	7.410E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 5.820E-02

1

YEAR -11 MONTHLY RESULTS (OUTPUT)
======== ========================

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08

IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06 2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 4.945E+09 4.888E+09 4.830E+09 4.773E+09 4.715E+09 4.658E+09 4.600E+09 4.543E+09 4.486E+09 4.428E+09 4.370E+09 4.313E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01
3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 5.741E+01 5.674E+01 5.607E+01 5.541E+01 5.474E+01 5.407E+01 5.341E+01 5.274E+01
5.207E+01 5.140E+01 5.074E+01 5.007E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 5.839E+00 5.912E+00 6.016E+00 6.136E+00 6.230E+00 6.319E+00 6.370E+00 6.385E+00
6.389E+00 6.392E+00 6.395E+00 6.401E+00
1 YEAR - 11 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	6.449E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 6.401E-02

1

YEAR -12 MONTHLY RESULTS (OUTPUT)

======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06	2.294E+06	2.311E+06	2.354E+06	2.405E+06
PURE PHASE	4.255E+09	4.197E+09	4.140E+09	4.082E+09	4.025E+09	3.968E+09	3.910E+09	3.853E+09	3.795E+09	3.738E+09	3.680E+09	3.622E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01

%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02

ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00

SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01

PURE PHASE 4.940E+01 4.873E+01 4.806E+01 4.739E+01 4.673E+01 4.606E+01 4.539E+01 4.473E+01 4.406E+01 4.339E+01 4.272E+01 4.205E+01

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	5.487E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 6.982E-02

1

YEAR -13 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)					16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197

17.022 16.872 16.722 16.547
PRECIPATION (CM) 3.029 5.941 8.201 10.448 7.262 6.262 3.653 1.061
1.211 0.844 0.918 1.071
NET INFILT. (CM) 0.218 0.850 1.195 1.380 1.087 1.020 0.585 0.165
0.045 0.025 0.039 0.061
EVAPOTRANS. (CM) 0.340 0.523 0.597 0.722 0.759 0.777 0.602 0.357
0.150 0.106 0.130 0.197
MOIS. RETEN (CM) -0.190 0.254 0.508 0.540 0.191 0.095 -0.159 -0.317
-0.222 -0.190 -0.190 -0.222
SUR. RUNOFF (CM) 2.810 5.091 7.007 9.068 6.176 5.242 3.068 0.896
1.166 0.819 0.879 1.010
GRW. RUNOFF (CM) 0.069 0.073 0.090 0.118 0.137 0.148 0.142 0.126
0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN	JUL	AUG	SEP					
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05
8.059E+05	8.478E+05	9.011E+05	9.666E+05					
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05
8.797E+05	8.720E+05	8.642E+05	8.552E+05					
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
5.582E+07	5.582E+07	5.582E+07	5.582E+07					
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06
2.932E+06	2.907E+06	2.881E+06	2.851E+06					
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
1.861E+08	1.861E+08	1.861E+08	1.861E+08					
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06
2.294E+06	2.311E+06	2.354E+06	2.405E+06					
PURE PHASE	3.565E+09	3.507E+09	3.449E+09	3.392E+09	3.335E+09	3.277E+09	3.220E+09	3.162E+09
3.105E+09	3.047E+09	2.990E+09	2.932E+09					

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 4.138E+01 4.071E+01 4.004E+01 3.938E+01 3.871E+01 3.804E+01 3.738E+01 3.671E+01 3.604E+01 3.538E+01 3.471E+01 3.404E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 7.001E+00 7.075E+00 7.178E+00 7.298E+00 7.393E+00 7.481E+00 7.532E+00 7.547E+00

7.551E+00 7.554E+00 7.558E+00 7.563E+00
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	4.525E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 7.563E-02

1

YEAR -14 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222

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 SUR. RUNOFF (CM)       2.810    5.091    7.007    9.068    6.176    5.242    3.068    0.896
1.166    0.819    0.879    1.010
 GRW. RUNOFF (CM)       0.069    0.073    0.090    0.118    0.137    0.148    0.142    0.126
0.117    0.110    0.099    0.087
 YIELD (CM)             2.879    5.164    7.096    9.186    6.312    5.389    3.210    1.022
1.284    0.929    0.978    1.097

 PAU/MPA (GZU)          1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786
 PA/MPA (GZ)            1.089    1.033    0.993    1.009    1.026    1.030    1.009    1.105
3.907    7.674    7.647    1.786

1                                          -- POLLUTANT MASS INPUT TO COLUMN (UG) --
                                           ----------------------------------------


                OCT        NOV        DEC        JAN        FEB        MAR        APR        MAY
JUN        JUL        AUG        SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
8.059E+05 8.478E+05 9.011E+05 9.666E+05
 DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
8.797E+05 8.720E+05 8.642E+05 8.552E+05
 DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
 IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
2.932E+06 2.907E+06 2.881E+06 2.851E+06
 ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
 IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
 PURE PHASE  2.874E+09 2.816E+09 2.759E+09 2.702E+09 2.644E+09 2.587E+09 2.529E+09 2.472E+09
2.414E+09 2.357E+09 2.299E+09 2.242E+09

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7
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SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 3.337E+01 3.270E+01 3.203E+01 3.136E+01 3.070E+01 3.003E+01 2.936E+01 2.870E+01 2.803E+01 2.736E+01 2.669E+01 2.602E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 7.582E+00 7.656E+00 7.760E+00 7.879E+00 7.974E+00 8.063E+00 8.114E+00 8.128E+00 8.133E+00 8.135E+00 8.139E+00 8.145E+00

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE 0.000E+00

SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	3.563E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 8.145E-02

1

YEAR -15 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105				

3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.072E+06	1.004E+06	8.636E+05	7.286E+05	6.797E+05	6.559E+05	6.817E+05	7.544E+05	8.059E+05	8.478E+05	9.011E+05	9.666E+05
DEGRAD MOIS	8.436E+05	8.539E+05	8.746E+05	8.965E+05	9.043E+05	9.082E+05	9.017E+05	8.888E+05	8.797E+05	8.720E+05	8.642E+05	8.552E+05
DEGRAD SOIL	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07	5.582E+07
IN SOIL MOI	2.812E+06	2.846E+06	2.915E+06	2.988E+06	3.014E+06	3.027E+06	3.006E+06	2.963E+06	2.932E+06	2.907E+06	2.881E+06	2.851E+06
ADS ON SOIL	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08	1.861E+08
IN SOIL AIR	2.508E+06	2.481E+06	2.388E+06	2.286E+06	2.233E+06	2.206E+06	2.205E+06	2.262E+06	2.294E+06	2.311E+06	2.354E+06	2.405E+06
PURE PHASE	2.184E+09	2.126E+09	2.069E+09	2.011E+09	1.954E+09	1.896E+09	1.839E+09	1.782E+09	1.724E+09	1.667E+09	1.609E+09	1.551E+09

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 2.535E+01 2.468E+01 2.401E+01 2.335E+01 2.268E+01 2.202E+01 2.135E+01 2.068E+01 2.002E+01 1.935E+01 1.868E+01 1.801E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 8.164E+00 8.237E+00 8.341E+00 8.461E+00 8.555E+00 8.644E+00 8.695E+00 8.710E+00 8.714E+00 8.716E+00 8.720E+00 8.726E+00

1 YEAR - 15 ANNUAL SUMMARY REPORT

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 16.999

AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	2.602E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 8.726E-02

1

YEAR -16 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

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JUN       JUL       AUG       SEP

 PRECIP.      0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD UPPER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
 LOAD LOWER  0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

 TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0          -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

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      UPPER SOIL ZONE:

           SUBLAYER  1

 VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
8.059E+05 8.478E+05 9.011E+05 9.666E+05
 DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
8.797E+05 8.720E+05 8.642E+05 8.552E+05
 DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
 IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
2.932E+06 2.907E+06 2.881E+06 2.851E+06
 ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
 IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
 PURE PHASE  1.494E+09 1.436E+09 1.378E+09 1.321E+09 1.264E+09 1.206E+09 1.149E+09 1.091E+09
1.034E+09 9.763E+08 9.187E+08 8.610E+08

      SOIL ZONE 2:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5

           SUBLAYER  6

           SUBLAYER  7

      SOIL ZONE 3:

           SUBLAYER  1

           SUBLAYER  2

           SUBLAYER  3

           SUBLAYER  4

           SUBLAYER  5
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SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 1.734E+01 1.667E+01 1.600E+01 1.533E+01 1.467E+01 1.400E+01 1.334E+01 1.267E+01 1.200E+01 1.133E+01 1.066E+01 9.995E+00

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 8.745E+00 8.819E+00 8.922E+00 9.042E+00 9.136E+00 9.225E+00 9.276E+00 9.291E+00 9.295E+00 9.298E+00 9.301E+00 9.307E+00

1 YEAR - 16 ANNUAL SUMMARY REPORT

-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH

MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	1.640E+02

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 9.307E-02

1

YEAR -17 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
MOIS. BELOW L1 (%)	17.022	16.872	16.722	16.547	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197
PRECIPATION (CM)	1.211	0.844	0.918	1.071	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061
NET INFILT. (CM)	0.045	0.025	0.039	0.061	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165
EVAPOTRANS. (CM)	0.150	0.106	0.130	0.197	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357
MOIS. RETEN (CM)	-0.222	-0.190	-0.190	-0.222	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317
SUR. RUNOFF (CM)	1.166	0.819	0.879	1.010	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896
GRW. RUNOFF (CM)	0.117	0.110	0.099	0.087	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126
YIELD (CM)	1.284	0.929	0.978	1.097	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022
PAU/MPA (GZU)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105
PA/MPA (GZ)	3.907	7.674	7.647	1.786	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.072E+06 1.004E+06 8.636E+05 7.286E+05 6.797E+05 6.559E+05 6.817E+05 7.544E+05
8.059E+05 8.478E+05 9.011E+05 9.666E+05
DEGRAD MOIS 8.436E+05 8.539E+05 8.746E+05 8.965E+05 9.043E+05 9.082E+05 9.017E+05 8.888E+05
8.797E+05 8.720E+05 8.642E+05 8.552E+05
DEGRAD SOIL 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07 5.582E+07
5.582E+07 5.582E+07 5.582E+07 5.582E+07
IN SOIL MOI 2.812E+06 2.846E+06 2.915E+06 2.988E+06 3.014E+06 3.027E+06 3.006E+06 2.963E+06
2.932E+06 2.907E+06 2.881E+06 2.851E+06
ADS ON SOIL 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08 1.861E+08
1.861E+08 1.861E+08 1.861E+08 1.861E+08
IN SOIL AIR 2.508E+06 2.481E+06 2.388E+06 2.286E+06 2.233E+06 2.206E+06 2.205E+06 2.262E+06
2.294E+06 2.311E+06 2.354E+06 2.405E+06
PURE PHASE 8.032E+08 7.455E+08 6.880E+08 6.306E+08 5.732E+08 5.158E+08 4.584E+08 4.010E+08
3.435E+08 2.859E+08 2.283E+08 1.707E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01 2.000E-01
%SOLUBILITY 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02 1.000E+02
ADSORBED 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00 1.600E+00
SOIL AIR 3.354E-01 3.398E-01 3.432E-01 3.467E-01 3.455E-01 3.448E-01 3.389E-01 3.365E-01 3.339E-01 3.301E-01 3.301E-01 3.302E-01
PURE PHASE 9.324E+00 8.655E+00 7.987E+00 7.320E+00 6.654E+00 5.988E+00 5.322E+00 4.655E+00 3.987E+00 3.319E+00 2.651E+00 1.981E+00

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 9.326E+00 9.400E+00 9.503E+00 9.623E+00 9.717E+00 9.806E+00 9.857E+00 9.872E+00 9.876E+00 9.879E+00 9.883E+00 9.888E+00

1 YEAR - 17 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	9.961E+06
TOTAL DEGRADED (MOISTURE)	1.054E+07
TOTAL DEGRADED (SOIL)	6.698E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	2.000E-01
ADSORBED SOIL (UG/G)	1.600E+00
SOIL AIR (UG/ML)	3.379E-01
PURE PHASE (UG/ML)	6.785E+01

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 9.888E-02

1

YEAR -18 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH

MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 1.072E+06 1.004E+06 8.632E+05 6.192E+05 4.285E+05 3.068E+05 2.366E+05 1.942E+05
1.538E+05 1.200E+05 9.450E+04 7.511E+04
DEGRAD MOIS 8.436E+05 8.539E+05 8.742E+05 7.619E+05 5.701E+05 4.248E+05 3.129E+05 2.288E+05
1.679E+05 1.234E+05 9.064E+04 6.645E+04
DEGRAD SOIL 5.582E+07 5.582E+07 5.579E+07 4.744E+07 3.519E+07 2.611E+07 1.937E+07 1.437E+07
1.065E+07 7.899E+06 5.854E+06 4.337E+06
IN SOIL MOI 2.812E+06 2.846E+06 2.880E+06 2.190E+06 1.639E+06 1.221E+06 8.996E+05 6.575E+05
4.826E+05 3.546E+05 2.604E+05 1.909E+05
ADS ON SOIL 1.861E+08 1.861E+08 1.838E+08 1.364E+08 1.012E+08 7.506E+07 5.569E+07 4.130E+07
3.062E+07 2.270E+07 1.682E+07 1.246E+07
IN SOIL AIR 2.508E+06 2.481E+06 2.360E+06 1.675E+06 1.214E+06 8.899E+05 6.600E+05 5.020E+05
3.776E+05 2.819E+05 2.128E+05 1.610E+05
PURE PHASE 1.129E+08 5.519E+07 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.000E-01 2.000E-01 1.976E-01 1.466E-01 1.087E-01 8.068E-02 5.986E-02 4.439E-02 3.291E-02 2.440E-02 1.808E-02 1.339E-02
%SOLUBILITY 1.000E+02 1.000E+02 9.879E+01 7.328E+01 5.437E+01 4.034E+01 2.993E+01 2.219E+01 1.646E+01 1.220E+01 9.040E+00 6.697E+00
ADSORBED 1.600E+00 1.600E+00 1.581E+00 1.173E+00 8.699E-01 6.454E-01 4.789E-01 3.551E-01 2.633E-01 1.952E-01 1.446E-01 1.072E-01
SOIL AIR 3.354E-01 3.398E-01 3.391E-01 2.541E-01 1.879E-01 1.391E-01 1.014E-01 7.468E-02 5.494E-02 4.027E-02 2.984E-02 2.212E-02
PURE PHASE 1.310E+00 6.408E-01 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 9.907E+00 9.981E+00 1.008E+01 1.020E+01 1.030E+01 1.039E+01 1.044E+01 1.045E+01 1.046E+01 1.046E+01 1.046E+01 1.047E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	5.168E+06
TOTAL DEGRADED (MOISTURE)	5.319E+06

TOTAL DEGRADED (SOIL) 3.387E+08

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	9.388E-02
ADSORBED SOIL (UG/G)	7.511E-01
SOIL AIR (UG/ML)	1.599E-01
PURE PHASE (UG/ML)	1.951E+00

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.047E-01

1

YEAR -19 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 6.167E+04 4.281E+04 2.728E+04 1.707E+04 1.182E+04 8.459E+03 6.523E+03 5.353E+03 4.240E+03 3.307E+03 2.605E+03 2.071E+03
DEGRAD MOIS 4.854E+04 3.640E+04 2.763E+04 2.101E+04 1.572E+04 1.171E+04 8.628E+03 6.307E+03 4.629E+03 3.402E+03 2.499E+03 1.832E+03
DEGRAD SOIL 3.212E+06 2.379E+06 1.763E+06 1.308E+06 9.703E+05 7.199E+05 5.341E+05 3.961E+05 2.937E+05 2.178E+05 1.614E+05 1.196E+05
IN SOIL MOI 1.394E+05 1.046E+05 7.940E+04 6.038E+04 4.519E+04 3.367E+04 2.480E+04 1.813E+04 1.330E+04 9.775E+03 7.180E+03 5.264E+03
ADS ON SOIL 9.225E+06 6.835E+06 5.068E+06 3.759E+06 2.789E+06 2.070E+06 1.535E+06 1.138E+06 8.441E+05 6.257E+05 4.637E+05 3.436E+05
IN SOIL AIR 1.243E+05 9.115E+04 6.505E+04 4.618E+04 3.348E+04 2.454E+04 1.820E+04 1.384E+04 1.041E+04 7.773E+03 5.867E+03 4.440E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 9.916E-03 7.347E-03 5.447E-03 4.041E-03 2.998E-03 2.225E-03 1.650E-03 1.224E-03 9.073E-04 6.726E-04 4.985E-04 3.693E-04
%SOLUBILITY 4.958E+00 3.673E+00 2.724E+00 2.020E+00 1.499E+00 1.112E+00 8.252E-01 6.119E-01 4.536E-01 3.363E-01 2.492E-01 1.847E-01
ADSORBED 7.933E-02 5.877E-02 4.358E-02 3.233E-02 2.399E-02 1.780E-02 1.320E-02 9.790E-03 7.258E-03 5.381E-03 3.988E-03 2.954E-03
SOIL AIR 1.663E-02 1.248E-02 9.348E-03 7.006E-03 5.180E-03 3.835E-03 2.797E-03 2.059E-03 1.515E-03 1.110E-03 8.227E-04 6.098E-04

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.049E+01 1.056E+01 1.067E+01 1.079E+01 1.088E+01 1.097E+01 1.102E+01 1.103E+01 1.104E+01 1.104E+01 1.105E+01 1.105E+01
1 YEAR - 19 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.932E+05
TOTAL DEGRADED (MOISTURE)	1.883E+05
TOTAL DEGRADED (SOIL)	1.208E+07

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	3.108E-03
ADSORBED SOIL (UG/G)	2.486E-02
SOIL AIR (UG/ML)	5.283E-03

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.105E-01

1

YEAR -20 MONTHLY RESULTS (OUTPUT)

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-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	1.700E+03	1.180E+03	7.523E+02	4.707E+02	3.257E+02	2.332E+02	1.799E+02	1.476E+02	1.169E+02	9.120E+01	7.184E+01	5.710E+01
DEGRAD MOIS	1.338E+03	1.004E+03	7.618E+02	5.792E+02	4.334E+02	3.229E+02	2.379E+02	1.739E+02	1.276E+02	9.380E+01	6.890E+01	5.052E+01
DEGRAD SOIL	8.856E+04	6.560E+04	4.862E+04	3.606E+04	2.675E+04	1.985E+04	1.473E+04	1.092E+04	8.099E+03	6.005E+03	4.450E+03	3.297E+03
IN SOIL MOI	3.844E+03	2.883E+03	2.189E+03	1.665E+03	1.246E+03	9.283E+02	6.839E+02	4.999E+02	3.668E+02	2.695E+02	1.980E+02	1.451E+02
ADS ON SOIL	2.544E+05	1.885E+05	1.397E+05	1.036E+05	7.690E+04	5.706E+04	4.233E+04	3.139E+04	2.328E+04	1.725E+04	1.279E+04	9.473E+03
IN SOIL AIR	3.428E+03	2.513E+03	1.794E+03	1.273E+03	9.230E+02	6.765E+02	5.018E+02	3.816E+02	2.870E+02	2.143E+02	1.618E+02	1.224E+02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.734E-04 2.026E-04 1.502E-04 1.114E-04 8.266E-05 6.133E-05 4.550E-05 3.374E-05 2.502E-05 1.855E-05 1.374E-05 1.018E-05
%SOLUBILITY 1.367E-01 1.013E-01 7.510E-02 5.570E-02 4.133E-02 3.067E-02 2.275E-02 1.687E-02 1.251E-02 9.273E-03 6.872E-03 5.091E-03
ADSORBED 2.188E-03 1.621E-03 1.202E-03 8.913E-04 6.613E-04 4.907E-04 3.640E-04 2.700E-04

2.002E-04 1.484E-04 1.100E-04 8.146E-05
SOIL AIR 4.586E-04 3.441E-04 2.577E-04 1.931E-04 1.428E-04 1.057E-04 7.712E-05 5.677E-05
4.176E-05 3.061E-05 2.268E-05 1.681E-05

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.107E+01 1.114E+01 1.125E+01 1.137E+01 1.146E+01 1.155E+01 1.160E+01 1.162E+01
1.162E+01 1.162E+01 1.163E+01 1.163E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR
EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	5.327E+03
TOTAL DEGRADED (MOISTURE)	5.192E+03
TOTAL DEGRADED (SOIL)	3.329E+05

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	8.570E-05
ADSORBED SOIL (UG/G)	6.856E-04
SOIL AIR (UG/ML)	1.457E-04

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	1.163E-01

1

YEAR -21 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
MOIS. IN L1 (%)					16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197

17.022 16.872 16.722 16.547
MOIS. BELOW L1 (%) 16.322 16.522 16.922 17.347 17.497 17.572 17.447 17.197
17.022 16.872 16.722 16.547
PRECIPATION (CM) 3.029 5.941 8.201 10.448 7.262 6.262 3.653 1.061
1.211 0.844 0.918 1.071
NET INFILT. (CM) 0.218 0.850 1.195 1.380 1.087 1.020 0.585 0.165
0.045 0.025 0.039 0.061
EVAPOTRANS. (CM) 0.340 0.523 0.597 0.722 0.759 0.777 0.602 0.357
0.150 0.106 0.130 0.197
MOIS. RETEN (CM) -0.190 0.254 0.508 0.540 0.191 0.095 -0.159 -0.317
-0.222 -0.190 -0.190 -0.222
SUR. RUNOFF (CM) 2.810 5.091 7.007 9.068 6.176 5.242 3.068 0.896
1.166 0.819 0.879 1.010
GRW. RUNOFF (CM) 0.069 0.073 0.090 0.118 0.137 0.148 0.142 0.126
0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN	JUL	AUG	SEP					
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	4.688E+01	3.255E+01	2.074E+01	1.298E+01	8.984E+00	6.432E+00	4.960E+00	4.071E+00
3.225E+00	2.515E+00	1.981E+00	1.574E+00					
DEGRAD MOIS	3.690E+01	2.767E+01	2.101E+01	1.597E+01	1.195E+01	8.906E+00	6.561E+00	4.796E+00
3.520E+00	2.587E+00	1.900E+00	1.393E+00					
DEGRAD SOIL	2.442E+03	1.809E+03	1.341E+03	9.944E+02	7.378E+02	5.474E+02	4.061E+02	3.012E+02
2.234E+02	1.656E+02	1.227E+02	9.092E+01					
IN SOIL MOI	1.060E+02	7.950E+01	6.037E+01	4.591E+01	3.436E+01	2.560E+01	1.886E+01	1.378E+01
1.012E+01	7.433E+00	5.459E+00	4.002E+00					
ADS ON SOIL	7.014E+03	5.197E+03	3.853E+03	2.858E+03	2.121E+03	1.574E+03	1.167E+03	8.657E+02
6.418E+02	4.758E+02	3.526E+02	2.612E+02					
IN SOIL AIR	9.453E+01	6.930E+01	4.946E+01	3.512E+01	2.546E+01	1.866E+01	1.384E+01	1.052E+01
7.915E+00	5.910E+00	4.460E+00	3.376E+00					

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.539E-06 5.586E-06 4.142E-06 3.073E-06 2.280E-06 1.692E-06 1.255E-06 9.306E-07 6.899E-07 5.115E-07 3.790E-07 2.807E-07
%SOLUBILITY 3.770E-03 2.793E-03 2.071E-03 1.536E-03 1.140E-03 8.458E-04 6.275E-04 4.653E-04 3.450E-04 2.557E-04 1.895E-04 1.404E-04
ADSORBED 6.032E-05 4.469E-05 3.313E-05 2.458E-05 1.824E-05 1.353E-05 1.004E-05 7.445E-06 5.519E-06 4.092E-06 3.032E-06 2.246E-06
SOIL AIR 1.264E-05 9.489E-06 7.108E-06 5.327E-06 3.938E-06 2.916E-06 2.127E-06 1.566E-06 1.152E-06 8.441E-07 6.255E-07 4.636E-07

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.165E+01 1.172E+01 1.183E+01 1.195E+01 1.204E+01 1.213E+01 1.218E+01 1.220E+01 1.220E+01 1.220E+01 1.221E+01 1.221E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.469E+02
TOTAL DEGRADED (MOISTURE)	1.432E+02
TOTAL DEGRADED (SOIL)	9.181E+03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.363E-06
ADSORBED SOIL (UG/G) 1.890E-05
SOIL AIR (UG/ML) 4.017E-06

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.221E-01

1

YEAR -22 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126				

0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY
JUN	JUL	AUG	SEP					
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
0.000E+00	0.000E+00	0.000E+00	0.000E+00					

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED	1.293E+00	8.970E-01	5.715E-01	3.573E-01	2.471E-01	1.767E-01	1.360E-01	1.114E-01
8.805E-02	6.851E-02	5.379E-02	4.271E-02					
DEGRAD MOIS	1.017E+00	7.626E-01	5.788E-01	4.397E-01	3.287E-01	2.447E-01	1.799E-01	1.312E-01
9.611E-02	7.046E-02	5.159E-02	3.778E-02					
DEGRAD SOIL	6.732E+01	4.985E+01	3.694E+01	2.738E+01	2.029E+01	1.504E+01	1.114E+01	8.242E+00
6.098E+00	4.510E+00	3.332E+00	2.466E+00					
IN SOIL MOI	2.922E+00	2.190E+00	1.663E+00	1.263E+00	9.445E-01	7.026E-01	5.167E-01	3.768E-01
2.761E-01	2.022E-01	1.484E-01	1.083E-01					
ADS ON SOIL	1.933E+02	1.432E+02	1.061E+02	7.864E+01	5.830E+01	4.318E+01	3.198E+01	2.367E+01
1.752E+01	1.294E+01	9.582E+00	7.070E+00					
IN SOIL AIR	2.606E+00	1.910E+00	1.363E+00	9.661E-01	6.998E-01	5.120E-01	3.791E-01	2.877E-01
2.160E-01	1.607E-01	1.212E-01	9.138E-02					

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.078E-07 1.539E-07 1.141E-07 8.453E-08 6.267E-08 4.642E-08 3.438E-08 2.544E-08 1.883E-08 1.391E-08 1.030E-08 7.600E-09
%SOLUBILITY 1.039E-04 7.695E-05 5.705E-05 4.226E-05 3.133E-05 2.321E-05 1.719E-05 1.272E-05 9.415E-06 6.955E-06 5.150E-06 3.800E-06
ADSORBED 1.663E-06 1.231E-06 9.128E-07 6.762E-07 5.014E-07 3.714E-07 2.750E-07 2.035E-07 1.506E-07 1.113E-07 8.240E-08 6.080E-08
SOIL AIR 3.486E-07 2.615E-07 1.958E-07 1.465E-07 1.083E-07 8.002E-08 5.827E-08 4.280E-08 3.143E-08 2.296E-08 1.700E-08 1.255E-08

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.223E+01 1.231E+01 1.241E+01 1.253E+01 1.262E+01 1.271E+01 1.276E+01 1.278E+01 1.278E+01 1.278E+01 1.279E+01 1.279E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	4.043E+00
TOTAL DEGRADED (MOISTURE)	3.939E+00
TOTAL DEGRADED (SOIL)	2.526E+02

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	6.499E-08
ADSORBED SOIL (UG/G)	5.199E-07
SOIL AIR (UG/ML)	1.105E-07

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.279E-01

1

YEAR -23 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY

JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 3.483E-02 2.392E-02 1.502E-02 9.223E-03 6.287E-03 4.248E-03 3.289E-03 2.723E-03 2.821E-03 2.967E-03 3.154E-03 3.383E-03
DEGRAD MOIS 2.742E-02 2.034E-02 1.521E-02 1.135E-02 8.365E-03 5.882E-03 4.351E-03 3.209E-03 3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.814E+00 1.329E+00 9.708E-01 7.066E-01 5.163E-01 3.615E-01 2.693E-01 2.015E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 7.845E-02 5.807E-02 4.344E-02 3.228E-02 2.351E-02 1.695E-02 1.232E-02 1.037E-02 1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 5.191E+00 3.796E+00 2.772E+00 2.009E+00 1.451E+00 1.042E+00 7.629E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 6.996E-02 5.062E-02 3.559E-02 2.469E-02 1.742E-02 1.235E-02 9.042E-03 7.916E-03 8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 5.580E-09 4.080E-09 2.980E-09 2.160E-09 1.560E-09 1.120E-09 8.200E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 2.790E-06 2.040E-06 1.490E-06 1.080E-06 7.800E-07 5.600E-07 4.100E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 4.464E-08 3.264E-08 2.384E-08 1.728E-08 1.248E-08 8.960E-09 6.560E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 9.359E-09 6.931E-09 5.114E-09 3.745E-09 2.695E-09 1.931E-09 1.390E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.281E+01 1.289E+01 1.299E+01 1.311E+01 1.320E+01 1.329E+01 1.334E+01 1.336E+01 1.336E+01 1.337E+01 1.337E+01 1.338E+01

1 YEAR - 23 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR

EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	1.119E-01
TOTAL DEGRADED (MOISTURE)	1.083E-01
TOTAL DEGRADED (SOIL)	6.951E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	1.817E-09
ADSORBED SOIL (UG/G)	1.453E-08
SOIL AIR (UG/ML)	3.081E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.338E-01

1

YEAR -24 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1

-- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 3.751E-03 3.515E-03 3.023E-03 2.550E-03 2.379E-03 2.296E-03 2.386E-03 2.640E-03 2.821E-03 2.967E-03 3.154E-03 3.383E-03
DEGRAD MOIS 2.952E-03 2.989E-03 3.061E-03 3.138E-03 3.165E-03 3.179E-03 3.156E-03 3.111E-03 3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 9.842E-03 9.962E-03 1.020E-02 1.046E-02 1.055E-02 1.060E-02 1.052E-02 1.037E-02 1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 8.776E-03 8.685E-03 8.359E-03 8.000E-03 7.816E-03 7.721E-03 7.719E-03 7.916E-03 8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.339E+01 1.347E+01 1.357E+01 1.369E+01 1.379E+01 1.387E+01 1.393E+01 1.394E+01 1.394E+01 1.395E+01 1.395E+01 1.396E+01

1 YEAR - 24 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.396E-01

1

YEAR -25 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	3.751E-03	3.515E-03	3.023E-03	2.550E-03	2.379E-03	2.296E-03	2.386E-03	2.640E-03	2.821E-03	2.967E-03	3.154E-03	3.383E-03
DEGRAD MOIS	2.952E-03	2.989E-03	3.061E-03	3.138E-03	3.165E-03	3.179E-03	3.156E-03	3.111E-03				

3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 9.842E-03 9.962E-03 1.020E-02 1.046E-02 1.055E-02 1.060E-02 1.052E-02 1.037E-02
1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 8.776E-03 8.685E-03 8.359E-03 8.000E-03 7.816E-03 7.721E-03 7.719E-03 7.916E-03
8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.398E+01 1.405E+01 1.415E+01 1.427E+01 1.437E+01 1.446E+01 1.451E+01 1.452E+01 1.453E+01 1.453E+01 1.453E+01 1.454E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.454E-01

1

YEAR -26 MONTHLY RESULTS (OUTPUT)

======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	3.751E-03	3.515E-03	3.023E-03	2.550E-03	2.379E-03	2.296E-03	2.386E-03	2.640E-03	2.821E-03	2.967E-03	3.154E-03	3.383E-03
DEGRAD MOIS	2.952E-03	2.989E-03	3.061E-03	3.138E-03	3.165E-03	3.179E-03	3.156E-03	3.111E-03	3.079E-03	3.052E-03	3.025E-03	2.993E-03
DEGRAD SOIL	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01
IN SOIL MOI	9.842E-03	9.962E-03	1.020E-02	1.046E-02	1.055E-02	1.060E-02	1.052E-02	1.037E-02	1.026E-02	1.017E-02	1.008E-02	9.977E-03
ADS ON SOIL	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01
IN SOIL AIR	8.776E-03	8.685E-03	8.359E-03	8.000E-03	7.816E-03	7.721E-03	7.719E-03	7.916E-03	8.031E-03	8.089E-03	8.238E-03	8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10

%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07

ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09

SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.456E+01 1.463E+01 1.473E+01 1.485E+01 1.495E+01 1.504E+01 1.509E+01 1.510E+01
1.511E+01 1.511E+01 1.511E+01 1.512E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.512E-01

1

YEAR -27 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357				

0.150 0.106 0.130 0.197
MOIS. RETEN (CM) -0.190 0.254 0.508 0.540 0.191 0.095 -0.159 -0.317
-0.222 -0.190 -0.190 -0.222
SUR. RUNOFF (CM) 2.810 5.091 7.007 9.068 6.176 5.242 3.068 0.896
1.166 0.819 0.879 1.010
GRW. RUNOFF (CM) 0.069 0.073 0.090 0.118 0.137 0.148 0.142 0.126
0.117 0.110 0.099 0.087
YIELD (CM) 2.879 5.164 7.096 9.186 6.312 5.389 3.210 1.022
1.284 0.929 0.978 1.097

PAU/MPA (GZU) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786
PA/MPA (GZ) 1.089 1.033 0.993 1.009 1.026 1.030 1.009 1.105
3.907 7.674 7.647 1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

OCT NOV DEC JAN FEB MAR APR MAY
JUN JUL AUG SEP

PRECIP. 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD UPPER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 2 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD ZONE 3 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 3.751E-03 3.515E-03 3.023E-03 2.550E-03 2.379E-03 2.296E-03 2.386E-03 2.640E-03
2.821E-03 2.967E-03 3.154E-03 3.383E-03
DEGRAD MOIS 2.952E-03 2.989E-03 3.061E-03 3.138E-03 3.165E-03 3.179E-03 3.156E-03 3.111E-03
3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 9.842E-03 9.962E-03 1.020E-02 1.046E-02 1.055E-02 1.060E-02 1.052E-02 1.037E-02
1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 8.776E-03 8.685E-03 8.359E-03 8.000E-03 7.816E-03 7.721E-03 7.719E-03 7.916E-03
8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.514E+01 1.521E+01 1.532E+01 1.544E+01 1.553E+01 1.562E+01 1.567E+01 1.568E+01 1.569E+01 1.569E+01 1.569E+01 1.570E+01

1 YEAR - 27 ANNUAL SUMMARY REPORT

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00

LOWER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.570E-01

1

YEAR -28 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
VOLATILIZED	3.751E-03	3.515E-03	3.023E-03	2.550E-03	2.379E-03	2.296E-03	2.386E-03	2.640E-03	2.821E-03	2.967E-03	3.154E-03	3.383E-03
DEGRAD MOIS	2.952E-03	2.989E-03	3.061E-03	3.138E-03	3.165E-03	3.179E-03	3.156E-03	3.111E-03	3.079E-03	3.052E-03	3.025E-03	2.993E-03
DEGRAD SOIL	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01	1.954E-01
IN SOIL MOI	9.842E-03	9.962E-03	1.020E-02	1.046E-02	1.055E-02	1.060E-02	1.052E-02	1.037E-02	1.026E-02	1.017E-02	1.008E-02	9.977E-03
ADS ON SOIL	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01	6.512E-01
IN SOIL AIR	8.776E-03	8.685E-03	8.359E-03	8.000E-03	7.816E-03	7.721E-03	7.719E-03	7.916E-03	8.031E-03	8.089E-03	8.238E-03	8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.572E+01 1.579E+01 1.590E+01 1.602E+01 1.611E+01 1.620E+01 1.625E+01 1.627E+01 1.627E+01 1.627E+01 1.628E+01 1.628E+01

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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.628E-01

1

YEAR -29 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00				

0.000E+00 0.000E+00 0.000E+00 0.000E+00
LOAD LOWER 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00

TOTAL INPUT 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00
0.000E+00 0.000E+00 0.000E+00 0.000E+00
0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH
MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 3.751E-03 3.515E-03 3.023E-03 2.550E-03 2.379E-03 2.296E-03 2.386E-03 2.640E-03
2.821E-03 2.967E-03 3.154E-03 3.383E-03
DEGRAD MOIS 2.952E-03 2.989E-03 3.061E-03 3.138E-03 3.165E-03 3.179E-03 3.156E-03 3.111E-03
3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 9.842E-03 9.962E-03 1.020E-02 1.046E-02 1.055E-02 1.060E-02 1.052E-02 1.037E-02
1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 8.776E-03 8.685E-03 8.359E-03 8.000E-03 7.816E-03 7.721E-03 7.719E-03 7.916E-03
8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH MONTH, THEY ARE NOT PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.630E+01 1.637E+01 1.648E+01 1.660E+01 1.669E+01 1.678E+01 1.683E+01 1.685E+01 1.685E+01 1.685E+01 1.686E+01 1.686E+01
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

---

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M) 1.686E-01

1

YEAR -30 MONTHLY RESULTS (OUTPUT)

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
MOIS. BELOW L1 (%)	16.322	16.522	16.922	17.347	17.497	17.572	17.447	17.197	17.022	16.872	16.722	16.547
PRECIPATION (CM)	3.029	5.941	8.201	10.448	7.262	6.262	3.653	1.061	1.211	0.844	0.918	1.071
NET INFILT. (CM)	0.218	0.850	1.195	1.380	1.087	1.020	0.585	0.165	0.045	0.025	0.039	0.061
EVAPOTRANS. (CM)	0.340	0.523	0.597	0.722	0.759	0.777	0.602	0.357	0.150	0.106	0.130	0.197
MOIS. RETEN (CM)	-0.190	0.254	0.508	0.540	0.191	0.095	-0.159	-0.317	-0.222	-0.190	-0.190	-0.222
SUR. RUNOFF (CM)	2.810	5.091	7.007	9.068	6.176	5.242	3.068	0.896	1.166	0.819	0.879	1.010
GRW. RUNOFF (CM)	0.069	0.073	0.090	0.118	0.137	0.148	0.142	0.126	0.117	0.110	0.099	0.087
YIELD (CM)	2.879	5.164	7.096	9.186	6.312	5.389	3.210	1.022	1.284	0.929	0.978	1.097
PAU/MPA (GZU)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786
PA/MPA (GZ)	1.089	1.033	0.993	1.009	1.026	1.030	1.009	1.105	3.907	7.674	7.647	1.786

1 -- POLLUTANT MASS INPUT TO COLUMN (UG) --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
PRECIP.	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD UPPER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 2	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD ZONE 3	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
LOAD LOWER	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
TOTAL INPUT	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

UPPER SOIL ZONE:

SUBLAYER 1

VOLATILIZED 3.751E-03 3.515E-03 3.023E-03 2.550E-03 2.379E-03 2.296E-03 2.386E-03 2.640E-03
2.821E-03 2.967E-03 3.154E-03 3.383E-03
DEGRAD MOIS 2.952E-03 2.989E-03 3.061E-03 3.138E-03 3.165E-03 3.179E-03 3.156E-03 3.111E-03
3.079E-03 3.052E-03 3.025E-03 2.993E-03
DEGRAD SOIL 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01 1.954E-01
1.954E-01 1.954E-01 1.954E-01 1.954E-01
IN SOIL MOI 9.842E-03 9.962E-03 1.020E-02 1.046E-02 1.055E-02 1.060E-02 1.052E-02 1.037E-02
1.026E-02 1.017E-02 1.008E-02 9.977E-03
ADS ON SOIL 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01 6.512E-01
6.512E-01 6.512E-01 6.512E-01 6.512E-01
IN SOIL AIR 8.776E-03 8.685E-03 8.359E-03 8.000E-03 7.816E-03 7.721E-03 7.719E-03 7.916E-03
8.031E-03 8.089E-03 8.238E-03 8.416E-03

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

-- POLLUTANT CONCENTRATIONS (UG/ML) OR (UG/G) -- NOTE: IF CONCENTRATIONS ARE ZERO FOR EACH

MONTH, THEY ARE NOT PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07 3.500E-07
ADSORBED 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09 5.600E-09
SOIL AIR 1.174E-09 1.189E-09 1.201E-09 1.214E-09 1.209E-09 1.207E-09 1.186E-09 1.178E-09 1.169E-09 1.155E-09 1.155E-09 1.156E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

POL DEP CM 1.688E+01 1.696E+01 1.706E+01 1.718E+01 1.727E+01 1.736E+01 1.741E+01 1.743E+01 1.743E+01 1.743E+01 1.744E+01 1.744E+01
1 YEAR - 30 ANNUAL SUMMARY REPORT
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-- TOTAL INPUTS (UG) --

UPPER SOIL ZONE	0.000E+00
SOIL ZONE 2	0.000E+00
SOIL ZONE 3	0.000E+00
LOWER SOIL ZONE	0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)	16.999
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)	16.999
TOTAL PRECIPITATION (CM)	49.902
TOTAL INFILTRATION (CM)	6.669
TOTAL EVAPOTRANSPIRATION (CM)	5.261
TOTAL SURFACE RUNOFF (CM)	43.232
TOTAL GRW RUNOFF (CM)	1.314
TOTAL MOISTURE RETENTION (CM)	0.095
TOTAL YIELD (CM)	44.546

0 -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED

FOR FINAL MASS IN SOIL MOI., ADS. ON SOIL, SOIL AIR, IMMOBIL CEC, COMPLEXED, AND PURE PHASE FOR EACH SUBLAYER, SEE ABOVE (MONTH SEP)

UPPER SOIL ZONE:

SUBLAYER 1

TOTAL VOLATILIZED	3.486E-02
TOTAL DEGRADED (MOISTURE)	3.690E-02
TOTAL DEGRADED (SOIL)	2.344E+00

SOIL ZONE 2:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SOIL ZONE 3:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

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UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML)	7.000E-10
ADSORBED SOIL (UG/G)	5.600E-09
SOIL AIR (UG/ML)	1.183E-09

SOIL ZONE 2:

SOIL ZONE 3:

LOWER SOIL ZONE:

MAX. POLL. DEPTH (M)	1.744E-01

**********EXECUTION COMPLETED**********