POOR LEGIBILITY

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TRC Alton Geoscience
28 Nov 2000 Rept.
Volume 2 of 2

SFUND RECORDS CTR
2177514

APPENDIX D

IMPORT AND COMPACTION RECORDS

ART Outbound Soil Log

Date 11-13-00

Page # 1

TRUCK ID	COMPANY	LICENSE #	TIME IN	TIME OUT	JOB #	TONS	DISPOSITION
400	MUNOS	9C09607	9:17	9:20	26001698	22	1869 Norwalk & Santa Fe Springs
60	R&R	9B36608	10:08	10:10	"	"	"
411	R&R	9B32771	11:01	11:03	"	"	"
R-700	R&R	9B66037	11:18	11:21	"	"	"
400	MUNOS	9C09607	11:30	11:33	"	"	"
60	R&R	9B36608	12:22	12:24	26001698	22	"
411	R&R	9B32771	12:42	12:45	"	"	"
700	R&R	9B66037	12:52	12:55	"	"	"
400	MUNOS	9C09607	1:04	1:07	"	"	"

Name: Ricardo G.

198 tons

ART Outbound Soil Log

Date 11-14-00

Page # 1

TRUCK ID	COMPANY	LICENSE #	TIME IN	TIME OUT	JOB #	TONS	DISPOSITION
14	LEIVA	9B68272	8:14	8:17	20001776	22	10602 Norwalk [illegible]
31	AMEZCUA	9B60404	8:24	8:27	20001226	22	"
G-47	GEM	9B26572	8:39	8:42	20001728	22	"

Name: Ricardo G.

64 TONS

[redacted]ol[redacted]al[redacted], In[redacted]
3100-A Airp[redacted]oop Drive • Costa Mesa, CA 92626
Phone (714) [redacted]-3210 • Fax (714) 751-6414

Chain of Custody

DATE [illegible] PAG[illegible] OF [illegible]

PROJECT MANAGER: [illegible]
COMPANY: [illegible]
ADDRESS:
PHONE # [illegible] FAX #
BILL TO: [illegible]
COMPANY:
ADDRESS:

SAMPLERS: (Signature) ( ) - PHONE NUMBER

Recommended Quantity and Preservative (Provide triple volume on QC Samples)

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Air Toxics	Volatile Cmpds (EPA TO14) 4L	Hydrocarbon Speciations 1L	Fixed Gases (CH_4, O_2, CO_2, CO) 1L	TPH/BTXE 1L	TNMOC (SCAQMD 25.2) 1L	Metals (CARB 436)	Soil & Water Toxics	Petroleum Hyrdocarbons (418.1)	Oil and Grease (413.2) 1L (H_2SO_4)/100g	Gasoline (MOD 8015/DOHS) 4 oz (HCL)/50g	Diesel (MOD 8015/DOHS) 4 oz (HCL)/50g	Gasoline /BTXE (MOD 8015/8020) 4 oz (HCL)/50g	Carbon Chain (ASTM D2887) 4 oz (HCL)/50g	BTXE (8020) 2X40ml (HCL)/50g	Chlorinated Hydrocarbons (8010) 2X40ml (HCL)/50g	Aromatic Hydrocarbons (8020) 2X40ml (HCL)/50g	Organic Lead (Pb) 500ml/50g	Volatile Cmpds GC/MS (8260B) 2X40ml (HCL)/100g	Semi-Volatile Cmpds GC/MS (8270) 1L/100g	Pesticides/PCB (8081A/8082) 1L/50g	Polynuclear Aromatic (8310) 1L/100g	CCR Metals 500ml/100g	Priority Pollutant Metals 500ml/100g					Number of Containers
[illegible]	[illegible]	[illegible]	Soil	-001									✓		✓	✓			✓														
[illegible]	"	"	Soil	-002											✓	✓			✓														

PROJECT INFORMATION	
PROJECT NUMBER:	
PROJECT NAME: [illegible]	
PURCHASE ORDER NUMBER:	
SHIPPED VIA:	
TAT: [x] 24HR [ ] 48HR [ ] 1WK [ ] 2WKS	
Comments: [illegible]	

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	2
CHAIN OF CUSTODY SEALS Y/N/NA	NA
INTACT? Y/N/NA	Y
RECEIVED GOOD COND./COLD	Y
AAI RFS #: 0027103	

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time:	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: [illegible]	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Jim Brown Time: [illegible]	Signature: Time:	Signature: [illegible] Time: 1610
Printed Name: Jim Brown Date:	Printed Name: Date:	Printed Name: LETICIA ZELAYA Date: 9/27/00
Company: [illegible] 9/27	Company:	Apollo Analytics, Inc.

SAMPLE DISPOSAL INSTRUCTIONS:
[ ] AAI Disposal (By Quote) [ ] Return [ ] Pickup (will call)

DISTRIBUTION: White, Canary – APOLLO ANALYTICS, INC. • PINK – ORIGINATOR

PHONE (714) 751-3210 FAX (714) 751-6414
3190-A AIRPORT LOOP DRIVE COSTA MESA, CALIFORNIA 92626

AAI RFS #: 0027103

October 17, 2000

American Remedial Technologies
2680 Seminole Avenue
Lynwood, California 90270

Project Name: SP# 847
Project Number: ---

Attention: Irving Chung

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
September 27, 2000	2	Soil

The sample(s) received were analyzed for total petroleum hydrocarbons as gasoline and diesel using EPA method 8015M, total recoverable petroleum hydrocarbons using EPA method 418.1 and BTEX/ MTBE using EPA method 8020.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Robert Levan

Leon Levan
Laboratory Manager

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027103

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8020
Chemist: LL

AAI ID Number	Client ID Number	MTBE (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylene (mg/Kg)	o-Xylene (mg/Kg)
027103 001-002	Composite A & B	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Method Blank		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Approved by: [signature] Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027103

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Gasoline (mg/Kg)
27103 001-002	Composite A & B	ND<5.0
od Blank		ND<5.0

Approved by: [signature] Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027103

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 10/2/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Diesel (mg/Kg)
27103 001-002	Composite A & B	ND<10
thod Blank		ND<10

QUALITY CONTROL SUMMARY

SAMPLE NUMBER(S)	TARGET COMPOUND	TPH as Diesel
S/LCSD	MS (%Recovery)	96
	MSD (%Recovery)	93
	RPD	3
LIMITS	Recovery (%)	70-130
LIMITS	RPD (%)	30

trix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: 10/2

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027103

Client Name: American Remedial Technologies
Project Name: SP# 847
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/29/2000
Analytical Method: EPA 418.1
Chemist: GB

AAI ID Number	Client ID Number	TRPH (mg/Kg)
27103 001-002	Composite A & B	50
hod Blank		ND<10

QUALITY CONTROL SUMMARY

SAMPLE NUMBER(S)	TARGET COMPOUND	TRPH
7103-001	MS (%Recovery)	110
	MSD (%Recovery)	123
	RPD	11
LIMITS	Recovery (%)	70-130
LIMITS	RPD (%)	30

natrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: [signature] Date: 10/20

Apollo Analytical Inc
3190-A Airport Drive • Costa Mesa, CA 92626
Phone (714) [illegible] 3210 • Fax (714) 751-6414

Chain of Custody

DATE [illegible] PAGE [illegible] OF [illegible]

PROJECT MANAGER: [illegible]
COMPANY: [illegible]
ADDRESS:
PHONE # (3[illegible]) [illegible] FAX #
BILL TO: [illegible]
COMPANY:
ADDRESS:

SAMPLERS: (Signature) ( ) PHONE NUMBER

Recommended Quantity and Preservative (Provide triple volume on QC Samples)

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Air Toxics	Volatile Cmpds (EPA TO14)	Hydrocarbon Speciations	Fixed Gases (CH_4, O_2, CO_2, CO)	TPH/BTXE	TNMOC (SCAQMD 25.2)	Metals (CARB 436)	Soil & Water Toxics	Petroleum Hyrdocarbons (418.1)	Oil and Grease (413.2)	Gasoline (MOD 8015/DOHS)	Diesel (MOD 8015/DOHS)	Gasoline /BTXE (MOD 8015/8020)	Carbon Chain (ASTM D2887)	BTXE (8020)	Chlorinated Hydrocarbons (8010)	Aromatic Hydrocarbons (8020)	Organic Lead (Pb)	Volatile Cmpds GC/MS (8260B)	Semi-Volatile Cmpds GC/MS (8270)	Pesticides/PCB (8081A/8082)	Polynuclear Aromatic (8310)	CCR Metals	Priority Pollutant Metals					Number of Containers
						4L	1L	1L	1L	1L				1L (H_2SO_4)/100g	4 oz (HCL)/50g	4 oz (HCL)/50g	4 oz (HCL)/50g	4 oz (HCL)/50g	2X40ml (HCL)/50g	2X40ml (HCL)/50g	2X40ml (HCL)/50g	500ml/50g	2X40ml (HCL)/100g	1L/100g	1L/50g	1L/100g	500ml/100g	500ml/100g					
[illegible]	[illegible]	[illegible]	[illegible]	-001									X		✓	✓			✓														
[illegible]			[illegible]	-002									X		✓	✓			✓														

PROJECT INFORMATION	
PROJECT NUMBER:	
PROJECT NAME: [illegible]	
PURCHASE ORDER NUMBER:	
SHIPPED VIA:	
TAT: ☑ 24HR ☐ 48HR ☐ 1WK ☐ 2WKS	
Comments: [illegible]	

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	2
CHAIN OF CUSTODY SEALS Y/N/NA	NA
INTACT? Y/N/NA	Y
RECEIVED GOOD COND./COLD	Y
AAI RFS #:	0027102

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: [illegible] Time: [illegible]	Signature: Time:	Signature: Time:
Printed Name: [illegible] Date: [illegible]	Printed Name: Date:	Printed Name: Date:
Company: [illegible]	Company:	Company:
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY: 3.**
Signature: Jim Brown Time: [illegible]	Signature: Time:	Signature: [illegible] Time: 1610
Printed Name: Jim Brown Date: 9/27	Printed Name: Date:	Printed Name: LETICIA ZELAYA Date: 9/27/02
Company: [illegible]	Company:	Apollo Analytics, Inc.

SAMPLE DISPOSAL INSTRUCTIONS

☐ AAI Disposal (By Quote) ☐ Return ☐ Pickup (will call)

DISTRIBUTION: White, Canary – APOLLO ANALYTICS, INC. • PINK – ORIGINATOR

PHONE (714) 751-3210 FAX (714) 751-6414

3190-A AIRPORT LOOP DRIVE COSTA MESA, CALIFORNIA 92626

AAI RFS #: 0027102

October 17, 2000

American Remedial Technologies
2680 Seminole Avenue
Lynwood, California 90270

Project Name: SP# 846
Project Number: ---

Attention: Irving Chung

Apollo Analytics Inc., has received the following sample(s):

Date Received	Quantity	Matrix
September 27, 2000	2	Soil

The sample(s) received were analyzed for total petroleum hydrocarbons as gasoline and diesel using EPA method 8015M, total recoverable petroleum hydrocarbons using EPA method 418.1 and BTEX/MTBE using EPA method 8020.

The results of these analyses and the quality control are enclosed. If you have any questions please do not hesitate to call (714) 751-3210.

Robert Richards

Leon Levan
for Laboratory Manager

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027102

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8020
Chemist: LL

AAI ID Number	Client ID Number	MTBE (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylene (mg/Kg)	o-Xylene (mg/Kg)
0027102 001-002	Composite A & B	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0
Method Blank		ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0

Approved by: [signature] Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027102

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/28/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Gasoline (mg/Kg)
27102 001-002	Composite A & B	ND<5.0
od Blank		ND<5.0

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027102

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 10/2/2000
Analytical Method: EPA 8015M
Chemist: LL

AAI ID Number	Client ID Number	TPH as Diesel (mg/Kg)
27102 001-002	Composite A & B	ND<10
ethod Blank		ND<10

QUALITY CONTROL SUMMARY

C SAMPLE ID NUMBER(S)	TARGET COMPOUND	TPH as Diesel
CS/LCSD	MS (%Recovery)	96
	MSD (%Recovery)	93
	RPD	3
C LIMITS	Recovery (%)	70-130
C LIMITS	RPD (%)	30

MS- matrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: 10/20

Apollo Analytics, Inc.
3190-A Airport Loop Drive
Costa Mesa, CA 92626

ANALYTICAL RESULTS

AAI RFS #: 0027102

Client Name: American Remedial Technologies
Project Name: SP# 846
Project #: ---
Matrix: Soil

Date(s) Sampled: 9/26/2000
Date(s) Analyzed: 9/29/2000
Analytical Method: EPA 418.1
Chemist: RR

AAI ID Number	Client ID Number	TRPH (mg/Kg)
27102 001-002	Composite A & B	60
od Blank		ND<10

QUALITY CONTROL SUMMARY

SAMPLE UMBER(S)	TARGET COMPOUND	TRPH
7103-001	MS (%Recovery)	110
	MSD (%Recovery)	123
	RPD	11
LIMITS	Recovery (%)	70-130
LIMITS	RPD (%)	30

atrix spike;MSD-matrix spike duplicate;RPD-relative percent difference;ND-not detected

Approved by: _____ Date: _____

JALK FEE TRUCKING RECORD

TRC FIELD REP: C. MITCHELL

PAGE 1 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TRAILER ~~NUMBER~~ TONS (NET)	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-15	0550	Y	N	410 DAVE B	26.24	WEST COAST SAND & GRAVEL		✓
11-15	0550	Y	N	102 JOHN B	26.01	"		✓
11-15	0550	Y	N	38 WEST COAST	25.40	"		✓
11-15	0550	Y	N	BC24	25.46	"		✓
11-15	0550	Y	N	BC23	24.69	"		✓
11-15	0605	Y	N	BC19	25.18	"		✓
11-15	0723	Y	N	410 DAVE B	26.36	"		✓
11-15	0723	Y	N	102 JOHN B	26.31	"		✓
11-15	0808	Y	N	38 WEST COAST	25.70	"		✓
11-15	0820	Y	N	CHRISTOPHERSON 10	25.18	"		✓
11-15	0857	Y	N	CHIE #CT9	26.13	"		✓
11-15	0914	Y	N	410 DAVE B	25.95	"		✓
11-15	0919	Y	N	102 JOHN B	26.15	"		✓
11-15	0932	Y	N	CW #46	25.07	"		✓
11-15	0940	Y	N	CW # 47	24.79	"		✓
11-15	1030	Y	N	CT # 10	25.01	"		✓
11-15	1030	Y	N	CT # 9	26.35	"		✓
11-15	1030	Y	N	CT # 14	25.10	"		✓

JALK FEE TRUCKING RECORD

TRC FIELD REP: C. MITCHELL

PAGE 2 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TRAILER NUMBER (TONS (NET))	SOIL SOURCE	MANIFEST NUMBER	TIME OUT
11-15	1050	Y	N	CRUE CT# 9	25.10	WEST COAST SAND & GRAVEL		✓
11-15	1057	Y	N	DAVE #410	26.36	"		✓
11-15	1057	Y	N	JOHN #102	26.31	"		✓
11-15	1230	Y	N	DAVE #410	25.89	"		✓
11-15	1230	Y	N	JOHN #102	25.56	"		✓
11-15	1300	Y	N	WC #44	25.31	"		✓
11-15	1300	Y	N	WC #39	25.58	"		✓
11-15	1400	Y	N	CRUE #CT9	25.34	"		✓
11-15	1403	Y	N	DAVE #410	26.03	"		✓
11-15	1403	Y	N	JOHNB #102	26.06	"		✓
11-15	1403	Y	N	CT#14	24.74	"		✓
11-15	1409	Y	N	SB #401	25.93	"		✓
11-15	1409	Y	N	CT#10	24.41	"		
11-15	1409	Y	N	CT#9	24.45	"		✓
11-15	1453	Y	N	WC #39	24.41	"		✓
11-15	1453	Y	N	WC #44	26.45	"		✓
		Y	N		TOTAL 869.01			
		Y	N					

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment

SHIPPED TO 10607 Norwalk Blvd.
Norwalk, CA

DRIVER Rufino TRCK. # CT-10 PIT STAR

REFERENCE # 610114 UNIT PRICE _____

GROSS WT. 39.68 AMOUNT _____

TARE WT. 14.56 SALES TAX _____

NET WT. 25.18 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301902

REC'D BY: X Trister Wessell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Nolwalk Blvd.
South El Segundo, Ca

DRIVER Bill Lewis TRCK. # 38 PIT Stock

REFERENCE # 610111	UNIT PRICE
GROSS WT. 38.99	AMOUNT
TARE WT. 13.29	SALES TAX
NET WT. 25.70	TOTAL
COMMODITY FS	

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

36087

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT RENTAL

SHIPPED TO 10607 NORWALK BLVD

SANTA FE SPRINGS

DRIVER MATT TRCK. # 39 PIT STAR

REFERENCE # 598644 UNIT PRICE _____

GROSS WT. 37.93 AMOUNT _____

TARE WT. 13.52 SALES TAX _____

NET WT. 24.41 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301198

REC'D BY: X Chris A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk
Santa Fe Spring

DRIVER Juan TRCK. # 411 PIT Star

REFERENCE # 598615 UNIT PRICE _____

GROSS WT. 39.78 AMOUNT _____

TARE WT. 13.33 SALES TAX _____

NET WT. 26.45 TOTAL _____

COMMODITY F.S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334620

REC'D BY: X Cindy A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment

SHIPPED TO 10607 Norwalk Blvd
Norwalk

DRIVER Juan TRCK. # 411 PIT 3-hr

REFERENCE # 598611 UNIT PRICE _____

GROSS WT. 38.64 AMOUNT _____

TARE WT. 13.33 SALES TAX _____

NET WT. 25.31 TOTAL _____

COMMODITY F.S.

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

300550

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT RENTAL

SHIPPED TO 10607 NORWALK BLVD
SANTA FE SPRINGS

DRIVER MATT TRCK. # 39 PIT STAR

REFERENCE # 598612 UNIT PRICE _____

GROSS WT. 39.10 AMOUNT _____

TARE WT. 13.52 SALES TAX _____

NET WT. 25.58 TOTAL _____

COMMODITY E/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301897

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 598585 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.36 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298465

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 598586 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306117

REC'D BY: X [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable SQ

SHIPPED TO 10607 NORWALK BLVD
NORWALK

DRIVER Miles TRCK. # CT-9 PIT _____

REFERENCE # 610138 UNIT PRICE _____

GROSS WT. 39.66 AMOUNT _____

TARE WT. 14.56 SALES TAX _____

NET WT. 25.10 TOTAL _____

COMMODITY S/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299494

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment.

SHIPPED TO 16602 Norwalk Blvd
Norwalk, CA

DRIVER Alfredo TRCK. # CT-16 PIT STAR
Christoffersen

REFERENCE # 610141 UNIT PRICE _____

GROSS WT. 39.51 AMOUNT _____

TARE WT. 14.50 SALES TAX _____

NET WT. 25.01 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301903

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equt

SHIPPED TO 10607 Norwalk Blvd

DRIVER Jo TRCK. # CT 14 PIT STAC

REFERENCE # 616139 UNIT PRICE _____

GROSS WT. 39 49 AMOUNT _____

TARE WT. 14 39 SALES TAX _____

NET WT. 25,10 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

336341

REC'D BY: X Cici Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER D. Crile TRCK. # CT9-[illegible] PIT Star

REFERENCE # 66146 UNIT PRICE _____

GROSS WT. 40.00 AMOUNT _____

TARE WT. 13.65 SALES TAX _____

NET WT. 26.35 TOTAL _____

COMMODITY Misc. Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

33314U

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP RENTAL

SHIPPED TO 10607 NORWALK BLVD
SANTA FE SPRINGS

DRIVER MK TRCK. # CW46 PIT STAR

REFERENCE # 610129 UNIT PRICE _____

GROSS WT. _____ AMOUNT _____

TARE WT. _____ SALES TAX _____

NET WT. 25.07 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

33268U

REC'D BY: X Walt [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP. RENTAL

SHIPPED TO 10607 NARWALK BL.
S.F.S.

DRIVER Louie Quintana TRCK. # CW-47 PIT STAR

REFERENCE # 610128 UNIT PRICE _____

GROSS WT. 38.77 AMOUNT _____

TARE WT. 13.98 SALES TAX _____

NET WT. 24.79 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

332670

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs

DRIVER John B TRCK. # 102 PIT ☆

REFERENCE # 010127 UNIT PRICE _____

GROSS WT. 39.71 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.15 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306110

REC'D BY: X Chris Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 610126 UNIT PRICE _____

GROSS WT. 39.46 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.95 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298164

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD _____

SHIPPED TO RELIABLE EQUIPMENT
10607 NORWALK BLVD SANTA FE SPRINGS

DRIVER MIKE D TRCK. # B/C 19 PIT STAR

MP 706 J5

REFERENCE # 598571	UNIT PRICE _____
GROSS WT. 3978	AMOUNT _____
TARE WT. 1460	SALES TAX _____
NET WT. 25.18	TOTAL _____
COMMODITY Fill Sand	

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297144

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00.

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment

SHIPPED TO 10607 Norwalk Blvd.
Norwalk, CA

DRIVER Rufino TRCK. # CT-10 PIT STAR
Christofferson.

REFERENCE # 598032 UNIT PRICE _____

GROSS WT. 38.91 AMOUNT _____

TARE WT. 14.50. SALES TAX _____

NET WT. 24.41. TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

301905

REC'D BY: X Clay Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Sq

SHIPPED TO 10607 NORWALK BLVD
NORWALK

DRIVER Miles TRCK. # CT-9 PIT _____

REFERENCE # 598631 UNIT PRICE _____

GROSS WT. 39.01 AMOUNT _____

TARE WT. 14.56 SALES TAX _____

NET WT. 24.45 TOTAL _____

COMMODITY 4/5

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299496

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip't

SHIPPED TO 10607 Norwalk Blvd
Norwalk

DRIVER Tim TRCK. # CT 14 PIT STAK

REFERENCE # 598653 UNIT PRICE _____

GROSS WT. 39.13 AMOUNT _____

TARE WT. 14.39 SALES TAX _____

NET WT. 24.74 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

336343

REC'D BY: X Cindy Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA Fe SPRGS.

DRIVER Dave B TRCK. # 410 PIT STAR

REFERENCE # 598631 UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298467

REC'D BY: X [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE _____

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 9607 Norwalk Blvd
Santa Fe Springs

DRIVER O Criles TRCK. # CT9-WC109 PIT Star

REFERENCE # 598628 UNIT PRICE _____

GROSS WT. 38.99 AMOUNT _____

TARE WT. 13.65 SALES TAX _____

NET WT. 25.34 TOTAL _____

COMMODITY Misc Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333142

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER Steven TRCK. # 401 PIT STAR

REFERENCE # 598636 UNIT PRICE _____

GROSS WT. 39.33 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 25.93 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297969

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT ☆

REFERENCE # 590635 UNIT PRICE _____

GROSS WT. 39.62 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.06 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306118

REC'D BY X Chris A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 598572 UNIT PRICE _____

GROSS WT. 39.75 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.24 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298462

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 598573 UNIT PRICE _____

GROSS WT. 39.57 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.01 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6113

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11/15/00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Mike K TRCK. # BC 21 PIT Star

REFERENCE # 598569 UNIT PRICE _____

GROSS WT. 38.98 AMOUNT _____

TARE WT. 13.52 SALES TAX _____

NET WT. 25.46 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333176

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD _____

SHIPPED TO RELIABLE EQUIP.

10600 NUNWALK BL SANTA FE SPRINGS

DRIVER MIKE R TRCK. # BC T25 PIT STAR

REFERENCE # 598576 UNIT PRICE _____

GROSS WT. 3921 AMOUNT _____

TARE WT. 1452 SALES TAX _____

NET WT. 2469 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

303662

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs, Ca

DRIVER Bill Lewis TRCK. # 38 PIT Stock

REFERENCE # 598574 UNIT PRICE _____

GROSS WT. 38.69 AMOUNT _____

TARE WT. 13.29 SALES TAX _____

NET WT. 25.40 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306086

REC'D BY: X Walt Smith

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRS.

DRIVER DALE.B TRCK. # 410 PIT STAR

REFERENCE # 610105 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.36 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298463

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT 4

REFERENCE # 610106 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6115

REC'D BY: X [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R. E. R.

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 598605 UNIT PRICE _____

GROSS WT. 39.12 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.56 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306114

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRGS.

DRIVER DAVE. B TRCK. # 410 PIT STAR

REFERENCE # 598606 UNIT PRICE _____

GROSS WT. 39.40 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.89 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298466

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

11-15-00

DATE ~~11-14-00~~

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip.

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER D. Crile TRCK. # CX9-WC109 PIT Star

REFERENCE #	61017	UNIT PRICE	
GROSS WT.	39.78	AMOUNT	
TARE WT.	13.65	SALES TAX	
NET WT.	26.13	TOTAL	
COMMODITY	Misc. Fill		

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333139

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE Mobil
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT ☆

REFERENCE # 600860 UNIT PRICE _____

GROSS WT. 3987 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306122

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

Mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.A.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT 4

REFERENCE # 6008685 UNIT PRICE _____

GROSS WT. 39.39 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.83 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6125

REC'D BY: X Roy A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs

DRIVER John B TRCK. # 102 PIT ~~X~~

REFERENCE # 610173 UNIT PRICE _____

GROSS WT. 39.23 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.67 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6121

REC'D BY: X Guy Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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Mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F. Springs.

DRIVER John B. TRCK. # 102 PIT X

REFERENCE # 6008630 UNIT PRICE _____

GROSS WT. 39.46 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.98 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

3 6123

REC'D BY: X Walt [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
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mobil

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-15-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 NORWALK Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT A

REFERENCE # 60085664 UNIT PRICE _____

GROSS WT. 39.69 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.13 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306124

REC'D BY: X Guy D Mitchell

WEST COAST SAND & GRAVEL, INC.

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: C. MITCHELL

PAGE 1 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	TRAILER NUMBER (TONS (WET))	SOIL SOURCE	MANIFEST NUMBER	~~TIME OUT~~ (ACCTD. FOR TICKETS)
11-16	0530	Y	N	DAVE B #410	26.17	WEST COAST SAND & GRAVEL		✓
11-16	0535	Y	N	JOHN B #102	25.92	"		✓
11-16	0600	Y	N	SB #401	26.49	"		✓
11-16	0614	Y	N	WC #717	25.59	"		✓
11-16	0629	Y	N	WC #55	25.56	"		✓
11-16	0635	Y	N	WC #9	26.33	"		✓
11-16	0635	Y	N	WC #31	25.97	"		✓
11-16	0730	Y	N	WC #717	25.35	"		✓
11-16	0730	Y	N	SB #401	26.40	"		✓
11-16	0735	Y	N	JOHN B #102	25.67	"		
11-16	0745	Y	N	DAVE B #410	25.87	"		✓
11-16	0915	Y	N	WC #31	25.94	"		✓
11-16	0915	Y	N	DAVE B #410	26.03	"		✓
11-16	0920	Y	N	CCT #246	24.76	"		✓
11-16	0920	Y	N	JOHN B #102	26.31	"		
11-16	0945	Y	N	SB #401	26.17	"		✓
11-16	0953	Y	N	WC 717	25.39	"		✓
11-16	1100	Y	N	DAVE B # 410	25.98	"		✓

JALK FEE TRUCKING RECORD

00-265.

TRC FIELD REP: C. MITCHELL

PAGE 2 OF 2

DATE	TIME IN	IMPORT		TRUCK NUMBER	~~TRAILER NUMBER~~ TONS (NET)	SOIL SOURCE	MANIFEST NUMBER	TIME OUT	
11-16	1100	Y	N	JOHN B #102	25.98	WEST COAST SAND AND GRAVEL			
11-16	1100	Y	N	WC #31	26.27	"		✓	
11-16	1115	Y	N	SB #401	26.47	"		✓	
11-16	1115	Y	N	CCT #246	24.47	"		✓	
11-16	1115	Y	N	WC #717	26.01	"		✓	
11-16	1220	Y	N	DAVE B #401	25.97	"		✓	
11-16	1220	Y	N	JOHN B #102	26.13	"			1516.21
11-16	1412	Y	N	DAVE B #401	25.63	"		✓	
11-16	1412	Y	N	JOHN B #102	25.83	"			1567.67
11-16	1630	Y	N	WC #33	26.63			✓	
		Y	N						
		Y	N						
		Y	N						
		Y	N						
		Y	N						
		Y	N						
		Y	N						
		Y	N						

WEST COAST SAND & GRAVEL, INC.

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7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.

S. F. SPRGS.

DRIVER DAVE-B TRCK. # 410 PIT STAR

REFERENCE # 610172 UNIT PRICE _____

GROSS WT. 39.38 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.87 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298469

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 401 PIT STAR

REFERENCE # 598626 UNIT PRICE _____

GROSS WT. 39,80 AMOUNT _____

TARE WT. 13,40 SALES TAX _____

NET WT. 26,40 **TOTAL** _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297972

REC'D BY: X W & W

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # PNOBIZE ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE SPRINGS

DRIVER Reino TRCK. # 717 PIT STAR

REFERENCE # 598677 UNIT PRICE _____

GROSS WT. 39.00 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 25.35 TOTAL _____

COMMODITY S/F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296793

REC'D BY: X [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobile

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 610158 UNIT PRICE _____

GROSS WT. 39.41 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 25.97 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334948

REC'D BY: X Craig Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIPMENT RENTALS

SHIPPED TO 10607 NORWALK BLVD
SANTA FE SPRINGS, CA

DRIVER B. CARCO TRCK. # 9 PIT STAR

REFERENCE # 610157 UNIT PRICE _____

GROSS WT. 39.75 AMOUNT _____

TARE WT. 13.42 SALES TAX _____

NET WT. 26.33 TOTAL _____

COMMODITY MISC. FILL

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

309736

REC'D BY: X Ray A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 11-16-06

JOB # _____ P.O. # Mobile ZONE # _____

SOLD Robinabb Equip

SHIPPED TO 10602 Norwalk Blvd
Santa Fe Springs

DRIVER Joe TRCK. # 55 PIT Stop

REFERENCE # 610156 UNIT PRICE _____

GROSS WT. 35.97 AMOUNT _____

TARE WT. 13.41 SALES TAX _____

NET WT. 22.56 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

335131

REC'D BY: X Walt [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

Mobile

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # MOBILE ZONE # _____

SOLD RELIABLE EQUIPMENT R

SHIPPED TO 10607 NORWALK
SANTA FE SPRINGS

DRIVER Benito TRCK. # 7/7T PIT STAR

REFERENCE #	610154	UNIT PRICE	
GROSS WT.	39.20	AMOUNT	
TARE WT.	13.61	SALES TAX	
NET WT.	25.59	TOTAL	
COMMODITY	S/F/S		

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296792

REC'D BY: X Wade

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16 00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 401 PIT STAR

REFERENCE # 610155 UNIT PRICE _____

GROSS WT. 39.89 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 26.49 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297171

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

Mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd.,
Santa Fe Springs

DRIVER John B. TRCK. # 102 PIT A

REFERENCE # 598669 UNIT PRICE _____

GROSS WT. 39.48 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 25.92 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

306120

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
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RADIO DISPATCHED

7312 ORANGETHORPE AVENUE Mobil
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 598666 UNIT PRICE _____

GROSS WT. 39.68 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.17 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

293468

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER STEVEN TRCK. # 4101 PIT STAR

REFERENCE # 6008638 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.40 SALES TAX _____

NET WT. 26.47 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297974

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip. Rental

SHIPPED TO 10607 Norwalk
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 60008628 UNIT PRICE _____

GROSS WT. 39.71 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 26.27 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334950

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008629 UNIT PRICE _____

GROSS WT. 39.49 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.98 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298471

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # Mobile ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE SPRING

DRIVER Ben[illegible] TRCK. # 717T PIT STAR

REFERENCE # 6008609 UNIT PRICE _____

GROSS WT. 39.00 AMOUNT _____

TARE WT. 13.61 SALES TAX _____

NET WT. 25.39 TOTAL _____

COMMODITY S/F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296794

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RER

SHIPPED TO 10607 NORWALK BLVD.
SANTA FE SPRINGS

DRIVER Steven TRCK. # 401 PIT STAR

REFERENCE # 6008605 UNIT PRICE _____

GROSS WT. 39,57 AMOUNT _____

TARE WT. 13,40 SALES TAX _____

NET WT. 26,17 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

297973

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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Mobil

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(714) 522-0282 (800) 522-0282

DATE 11-16-00 am

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip Rental

SHIPPED TO 10607 Norwalk
Santa Fe Springs

DRIVER Caleb TRCK. # 31 PIT Star

REFERENCE # 598682 UNIT PRICE _____

GROSS WT. 39.38 AMOUNT _____

TARE WT. 13.44 SALES TAX _____

NET WT. 25.94 TOTAL _____

COMMODITY FS

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334949

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
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Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD
S.F. SPRGS.

DRIVER DAVE.B TRCK. # 410 PIT STAR

REFERENCE # 59868P UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298470

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

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(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equip

SHIPPED TO _____

DRIVER _____ TRCK. # CCT#246 PIT _____

REFERENCE # 598689 UNIT PRICE _____

GROSS WT. 3968 AMOUNT _____

TARE WT. 1492 SALES TAX _____

NET WT. 2476 TOTAL _____

COMMODITY Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

311759

REC'D BY: X _____

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mobil

706
JS

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DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipt. Renals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Flores TRCK. # 33 PIT Star

REFERENCE # 6008695 UNIT PRICE _____

GROSS WT. 39.91 AMOUNT _____

TARE WT. 13.28 SALES TAX _____

NET WT. 26.63 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334752

REC'D BY: X Walt [illegible]

WEST COAST SAND & GRAVEL, INC.

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DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 6008683 UNIT PRICE _____

GROSS WT. 39.14 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.63 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298473

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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DATE 11-16-00

JOB # _____ P.O. # Mobile ZONE # _____

SOLD RELIABLE EQUIPMENT

SHIPPED TO 10607 NORWALK
SANTA FE S

DRIVER Benito TRCK. # 7/7T PIT STAR

REFERENCE #	6008644	UNIT PRICE	
GROSS WT.	39.62	AMOUNT	
TARE WT.	13.61	SALES TAX	
NET WT.	26.01	TOTAL	
COMMODITY	S/F/S		

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

296 '95

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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Mobil

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Circle City TRCK. # 216 PIT Stan

REFERENCE # 6008635 UNIT PRICE _____

GROSS WT. 3939 AMOUNT _____

TARE WT. 1492 SALES TAX _____

NET WT. 2447 TOTAL _____

COMMODITY Fill

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

311760

REC'D BY: X Craig A Mitchell

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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Mobil

DATE 11-16-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008663 UNIT PRICE _____

GROSS WT. 39.48 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.97 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298472

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

JALK FEE TRUCKING RECORD

00-265

TRC FIELD REP: C. MITCHELL

PAGE ____ OF ____

DATE	TIME IN	IMPORT		TRUCK NUMBER	~~TRAILER NUMBER~~ TONS NET	SOIL SOURCE	MANIFEST NUMBER	TIME OUT	
11-17-00	0600	Y	N	JOHN B # 102	20.02	WEST COAST SAND & GRAVEL		✓	
11-17-00	0600	Y	N	DAVE B # 410	25.86	"		✓	
11-17-00	0620	Y	N	WC # 41	22.50	"		✓	
11-17-00	0800	Y	N	JOHN B # 102	26.21	"		✓	
11-17-00	0800	Y	N	DAVE B # 410	26.11	"		✓	
11-17-00	0830	Y	N	WC # 41	21.10	"		✓	
11-17-00	0948	Y	N	DAVE B # 410	26.22	"		✓	
11-17-00	0948	Y	N	JOHN B # 102	26.26	"		✓	168.02
11-17-00	1130	Y	N	DAVE B # 410	26.03	"		✓	194.28
11-17-00	1130	Y	N	JOHN B # 102	26.31	"		✓	246.02
11-17-00	1305	Y	N	DAVE B # 410	25.94	"		✓	272.56
11-17-00	1325	Y	N	JOHN B # 102	26.43	"		✓	298.99
11-17-00	1530	Y	N	JOHN B # 102	26.15	"		✓	
11-17-00	1530	Y	N	DAVE B # 410	25.86	"		✓	
11-17-00	1600	Y	N	WC # 57	26.47	"		✓	
		Y	N						
		Y	N						
		Y	N						

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DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT ☆

REFERENCE # 6008794 UNIT PRICE _____

GROSS WT. 38.99 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.43 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333955

REC'D BY: X [signature]

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DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE-B TRCK. # 410 PIT STAR

REFERENCE # 6008792 UNIT PRICE _____

GROSS WT. 39.45 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.94 **TOTAL** _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299903

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 NORWALK Blvd. S.F.S.

DRIVER JohnB TRCK. # 102 PIT #

REFERENCE # 6008773 UNIT PRICE _____

GROSS WT. 39.87 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.31 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333954

REC'D BY: X Craig A Mitchell

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE. B TRCK. # 410 PIT STAR

REFERENCE # 6008769 UNIT PRICE _____

GROSS WT. 39.54 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.03 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299902

REC'D BY: X _____

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

mobil

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT A

REFERENCE # 6008757 UNIT PRICE _____

GROSS WT. 39.82 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.26 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333953

REC'D BY: X [signature]

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(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.

S.F. SPRGS.

DRIVER DALE B TRCK. # 410 PIT STAR

REFERENCE # 6008755 UNIT PRICE _____

GROSS WT. 39.73 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.22 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299901

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals.

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Ed. TRCK. # 41 PIT Star.

REFERENCE # 6005743 UNIT PRICE _____

GROSS WT. 35.48 AMOUNT _____

TARE WT. 14.38 SALES TAX _____

NET WT. 21.10 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334729

REC'D BY: X Greg A Mitchell

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008735 UNIT PRICE _____

GROSS WT. 39.62 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 26.11 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298475

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B TRCK. # 102 PIT X

REFERENCE # 60087336 UNIT PRICE _____

GROSS WT. 39.77 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.21 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333952

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

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Mobil

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rentals

SHIPPED TO 10607 Norwalk Blvd.
Santa Fe Springs

DRIVER Ed. TRCK. # 41 PIT Star.

REFERENCE # 6008717 UNIT PRICE _____

GROSS WT. 36.88 AMOUNT _____

TARE WT. 14.38 SALES TAX _____

NET WT. 22.50 TOTAL _____

COMMODITY Fill Sand.

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

334720

REC'D BY: X [illegible]

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP.

SHIPPED TO 10607 NORWALK BLVD.
S.F. SPRGS.

DRIVER DAVE B TRCK. # 410 PIT STAR

REFERENCE # 6008702 UNIT PRICE _____

GROSS WT. 39.37 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.86 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

298474

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

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BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 10-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 Norwalk Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT A

REFERENCE # 6008104 UNIT PRICE _____

GROSS WT. 39.58 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 20.02 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333951

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD RELIABLE EQUIP

SHIPPED TO 10607 ROSECRANS BLVD
SANTA FE SPRINGS

DRIVER DALE R. TRCK. # 410 PIT STAR

REFERENCE # 6008811 UNIT PRICE _____

GROSS WT. 39.37 AMOUNT _____

TARE WT. 13.51 SALES TAX _____

NET WT. 25.86 TOTAL _____

COMMODITY FILL SAND

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

299904

REC'D BY: X _____

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

Mobil

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P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

DATE 11-17-00

JOB # _____ P.O. # _____ ZONE # _____

SOLD R.E.R.

SHIPPED TO 10607 NORWALK Blvd., S.F.S.

DRIVER John B. TRCK. # 102 PIT ☆

REFERENCE # 6008812 UNIT PRICE _____

GROSS WT. ~~26.15~~ 39.71 AMOUNT _____

TARE WT. 13.56 SALES TAX _____

NET WT. 26.15 TOTAL _____

COMMODITY Fill Sand

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

333950

REC'D BY: X Walt [illegible]

WEST COAST SAND & GRAVEL, INC.

WEST COAST SAND & GRAVEL, INC.

ROCK • SAND • BASE MATERIALS
WASHED PLASTER AND CONCRETE SAND • TOP SOIL
RADIO DISPATCHED

7312 ORANGETHORPE AVENUE
P.O. BOX 5267
BUENA PARK, CA 90622-5267
(714) 522-0282 (800) 522-0282

Mobil

DATE 11-17-2000

JOB # _____ P.O. # _____ ZONE # _____

SOLD Reliable Equipment Rental

SHIPPED TO 10607 Norwalk Blvd
Santa Fe Springs

DRIVER Jeff TRCK. # 57 PIT Star

REFERENCE # 008013 UNIT PRICE _____

GROSS WT. 37.67 AMOUNT _____

TARE WT. 13.20 SALES TAX _____

NET WT. 26.47 TOTAL _____

COMMODITY F/S

Deliveries shall be made where customer designates. Customer hereby assumes responsibility for damages inside curb or property line. Any and all claims for shortage and/or quality of product delivered will not be allowed unless made at time of delivery.

310132

REC'D BY: X [signature]

WEST COAST SAND & GRAVEL, INC.

KEANTAN LABORATORIES

www.keantanlabs.com
email: keantanlab@aol.com

November 3, 2000

TRC Environmental Solutions, Inc.
21 Technology Drive
Irvine, CA 92718

Attention: Mr. Jeff Hensel

Subject: Report/Laboratory Test Results
Project Name: Jalk Fee
Project No.: 00-0265
KTL Project No.: 00-056-003

Dear Mr. Hensel:

Enclosed are results of the laboratory testing program conducted on samples from the above referenced project. The testing performed for this program was conducted in general accordance with testing procedures as follows:

TYPE OF TEST	TEST PROCEDURE
Modified Proctor	ASTM D 1557

Attached herewith are Modified Compaction Test Results(2).

We appreciate the opportunity to provide testing services to TRC Environmental Solutions, Inc. If you have any questions regarding the test results, please contact us.

Very truly yours,
Keantan Laboratories

Kean Tan, PE
Principal

Encls.

720 North Valley Street, Suite B, Anaheim, CA 92801 • Tel.: (714) 535-7616 • Fax: (714) 535-7568

KEANTAN LABORATORIES

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email: keantanlab@aol.com

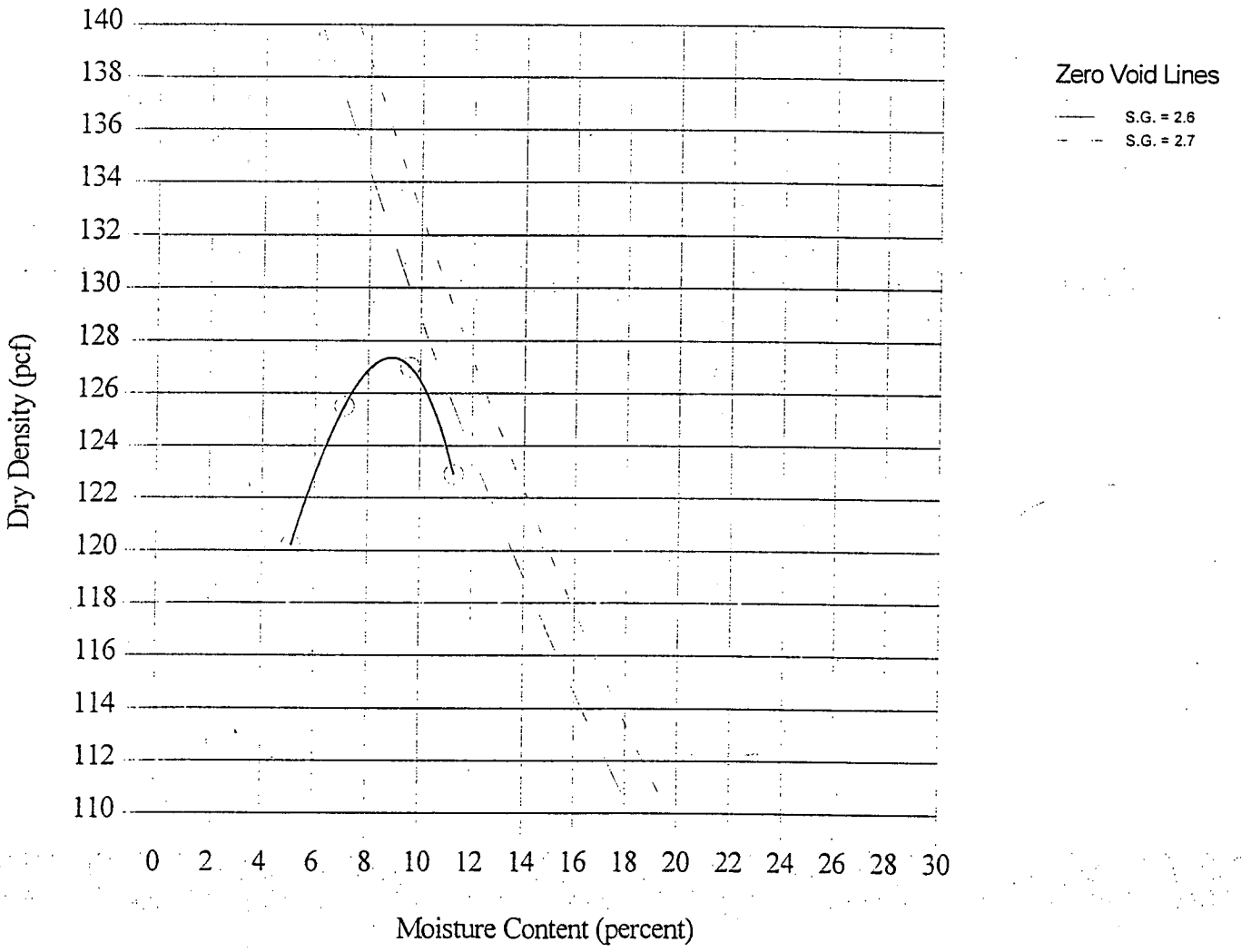
Modified Compaction Test Results
ASTM D 1557

PROJECT NAME: JALK FEE
PROJECT NO.: 00-265
DATE: Nov. 2000
BORING NO.: N/A
SAMPLE NO.: M7/M8

KTL NO.: 00-056-003
CLIENT: TRC ENV. SOLNS.
DEPTH (ft): N/A
USCS CLASS.: SC

METHOD: A
DROP: 18 INCHES
NUMBER OF LAYERS: 5

RAM WEIGHT: 10 LBS
RAM TYPE: MANUAL
BLOWS/LAYER: 25



Optimum Moisture Content, %	Maximum Dry Density, pcf
9	127

FIGURE NO.

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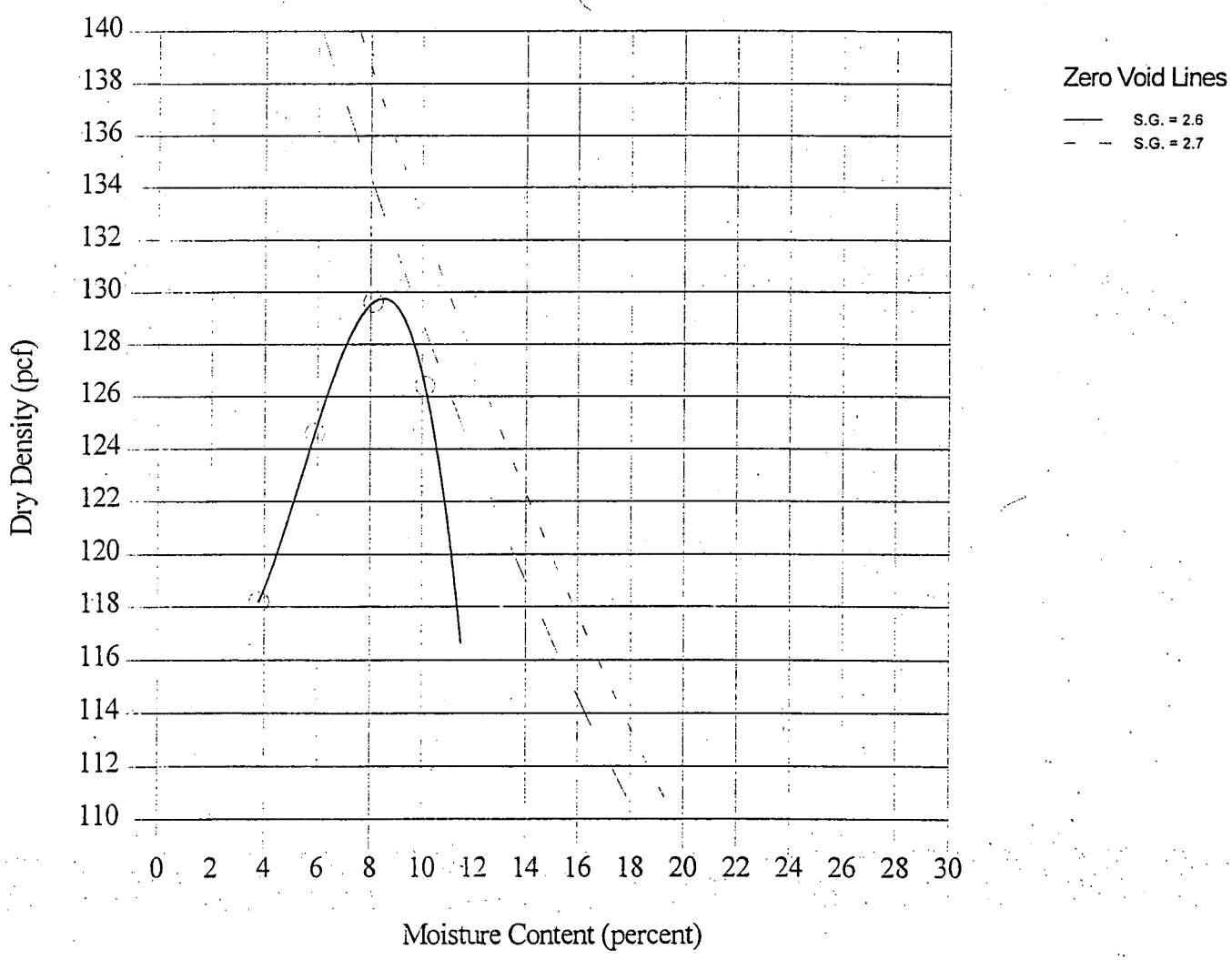
Modified Compaction Test Results
ASTM D 1557

PROJECT NAME: JALK FEE
PROJECT NO.: 00-265
DATE: Nov. 2000
BORING NO.: N/A
SAMPLE NO.: M-3

KTL NO.: 00-056-003
CLIENT: TRC ENV. SOLNS.
DEPTH (ft): N/A
USCS CLASS.: SC

METHOD: A
DROP: 18 INCHES
NUMBER OF LAYERS: 5

RAM WEIGHT: 10 LBS
RAM TYPE: MANUAL
BLOWS/LAYER: 25



Optimum Moisture Content, %	Maximum Dry Density, pcf
8	130

FIGURE NO.

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TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	SALK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16089
PROJECT NO.	00-265	DATE	11-17-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.92
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11067
TEST MATERIAL	GEN BACKFILL IMPORT	DATE				Xi RATIO	1.04

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
17	M-9	17	8	134.2	6.37	126.1	7.0	131.0	96.29	
18	M-9	18	8	131.3	7.30	122.4	7.0	131.0	93.40	
19	M-9	19	8	127.6	6.77	119.5	7.0	131.0	91.25	
20	M-9	20	8	132.1	5.64	125.1	7.0	131.0	95.49	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	C.M.	GAUGE NO.	M89058848	STD. DENSITY COUNT	1617
PROJECT NO.	00-265	DATE	11-16-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.93
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	1128
TEST MATERIAL	GEN BACKFILL IMPORT #2	DATE				Xi RATIO	1.03

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
11	M-3	11	8	126.8	5.14	120.6	7.5	128.5	93.87	
12	M-3	12	8	136.8	8.31	126.3	7.5	128.5	98.29	
13	M-3	13	8	124.3	6.99	116.2	7.5	128.5	90.41	
14	M-3	14	8	134.7	5.68	127.5	7.0	131.0	97.33	
1	M-8	1	8	129.7	9.39	118.6	7.5	128.5	92.27	IMPORT #2
2	M-8	2	8	128.0	8.33	118.1	10.0	125.0	94.51	IMPORT #1
3	M-8	3	8	125.0	8.97	114.7	10.0	125.0	91.75	
4	M-8	4	8	126.6	9.97	115.1	10.0	125.0	92.08	
5	M-8	5	8	129.3	9.97	117.6	8.0	130.0	90.45	
15	M9	15	8	131.4	9.06	120.5	8.0	130.0	92.68	
16	M-9	16	8	138.0	7.87	128.0	7.0	131.0	97.68	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16226
PROJECT NO.	00-265	DATE	11-15-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.02
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11125
TEST MATERIAL	GRN BASCLEN IMPORT #1	DATE				Xi RATIO	1.05

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	M-3	1	8	135.6	9.62	123.7	10.0	125.0	98.99	IMPORT #1
2	M-3	2	8	129.7	9.54	118.4	10.0	125.0	94.75	
3	M-3	3	8	124.9	10.4	113.1	10.0	125.0	90.51	
4	M-3	4	8	129.5	10.06	117.7	10.0	125.0	94.15	
5	M-3	5	8	128.3	11.73	114.8	10.0	125.0	91.85	
6	M-3	6	8	135.2	9.39	123.6	10.0	125.0	98.85	
7	M-3	7	8	127.8	4.52	122.3	7.5	128.5	95.16	NEW IMPORT #2
8	M-3	8	8	133.8	5.64	126.7	7.5	128.5	98.58	
9	M-3	9	8	130.3	6.24	122.6	7.5	128.5	95.41	
10	M-3	10	8	130.7	5.69	123.6	7.5	128.5	96.21	

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16226
PROJECT NO.	00-265	DATE	11-15-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.02
PROJECT LOCATION	SANTA FE SPRINGS, CA	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11125
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.05

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
14	M-9	14	8	127.3	9.84	115.9	8.0	127.0	91.26	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16148
PROJECT NO.	00-265	DATE	11-14-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.97
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11119
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.03

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (in.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
7	M-9	7	8	131.4	9.09	120.5	8.0	130.0	92.66	
8	M-9	8	8	134.2	9.93	122.1	8.0	130.0	93.90	
9	M-9	9	8	132.9	9.82	121.0	8.0	130.0	93.08	
10	M-9	10	8	133.8	9.31	122.4	8.0	130.0	94.17	
11	M-9	11	8	134.4	10.67	121.5	8.0	130.0	93.43	
12	M-9	12	8	129.2	9.82	117.6	8.0	130.0	90.49	
13	M-9	13	8	131.1	9.47	119.7	8.0	130.0	92.10	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JACK FEE	TESTED BY	CM	GAUGE NO.	M89058848	STD. DENSITY COUNT	16121
PROJECT NO.	00-265	DATE	11-13-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	.97
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	11073
TEST MATERIAL	GEN BACKFILL	DATE				Xi RATIO	1.02

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	M-2	1	8	134.6	10.16	122.1	8.0	130.0	93.96	
2	M-2	2	8	134.3	10.16	121.9	8.0	130.0	93.80	
3	M-2	3	8	126.8	9.87	115.4	9.0	127.0	90.90	
1	M-9	1	8	126.9	7.46	118.1	9.0	127.0	92.99	
2	M-9	2	8	128.3	8.74	118.0	9.0	127.0	92.88	
3	M-9	3	8	129.6	8.16	119.9	9.0	127.0	94.39	
4	M-9	4	8	131.1	9.06	120.2	8.0	130.0	92.45	
5	M-9	5	8	129.1	7.57	120.1	8.0	130.0	92.55	
6	M-9	6	8	131.0	7.65	121.7	8.0	130.0	93.63	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALIC FEE	TESTED BY	C.M.	GAUGE NO.	M89058848	STD. DENSITY COUNT	16211
PROJECT NO.	00-265	DATE	11-10-00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	1.06
PROJECT LOCATION	SANTA FE SPRINGS	CHECKED BY		REQUIRED % COMPACTION	90%	STD. MOISTURE COUNT	10908
TEST MATERIAL	GEN. BACKFILL	DATE				Xi RATIO	.99

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
3	M-1	3	8	133.4	9.79	121.5	8.0	130.0	93.5	
4	M-1	4	8	130.9	9.47	119.6	8.0	130.0	92.0	
5	M-1	5	8	130.7	9.69	119.2	8.0	130.0	91.7	
6	M-1	6	8	136.6	11.08	123.0	8.0	130.0	94.60	
7	M-1	7	8	131.9	9.34	120.6	8.0	130.0	92.78	
8	M-1	8	8	135.2	11.22	121.6	8.0	130.0	93.52	
9	M-1	9	8.	132.2	10.65	119.4	8.0	130.0	91.89	

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FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	A. Andrade	GAUGE NO.	M89058848	STD. DENSITY COUNT	16197
PROJECT NO.	00-265	DATE	11/9/00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	0.89
PROJECT LOCATION	Santa Fe Springs, CA	CHECKED BY		REQUIRED % COMPACTION	90	STD. MOISTURE COUNT	10782
TEST MATERIAL	On site	DATE				Xi RATIO	0.95

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
13	SB49 Trench (west end)	1	8	134.5	8.55	123.9	8	130	95.33	Pass (7' Below grade)
14		2		128.3	7.85	118.9			91.50	Pass (6.5')
15		3		133.4	6.95	124.7			95.96	Pass (5.5')
16		4		132.8	7.79	123.2			94.75	Pass (4.5')
17		5		134.3	8.01	124.4			95.67	Pass (4')
18		6		134.6	7.92	124.7			95.93	Pass (3')
1	M-7	1	8	130.0	8.87	119.5	8	130	91.89	Pass (9' Below grade)
2		2		129.8	8.40	119.7			92.11	Pass (8')
3		3		130.6	7.81	121.1			93.16	Pass (6.5)
4		4		130.9	8.67	120.6			92.75	Pass (5.5)
5		5		131.9	7.90	122.3			94.06	Pass (4.5)
6		6		130.6	6.24	122.9			94.56	Pass (3.5)
7		7		131.7	6.67	123.4			94.94	Pass (2.5)
1	M-1	1	8	132.1	11.95	118.0	8	130	90.76	Pass (9' Below grade)
2		2		132.6	11.33	119.1			91.59	Pass (8')

TRC Environmental Solutions Inc.

FIELD DETERMINATION OF DENSITY AND MOISTURE CONTENT BY NUCLEAR METHOD

PROJECT NAME	JALK FEE	TESTED BY	A. Andrade	GAUGE NO.	M89058848	STD. DENSITY COUNT	16123
PROJECT NO.	00-265	DATE	11/8/00	TEST STANDARD	ASTM D3017 / D2922	Xi RATIO	0.87
PROJECT LOCATION	Santa Fe Springs, CA	CHECKED BY		REQUIRED % COMPACTION	90	STD. MOISTURE COUNT	10993
TEST MATERIAL	Onsite	DATE				Xi RATIO	1.01

TEST NO.	TEST LOCATION	LIFT NO.	PROBE DEPTH (In.)	WET DENSITY (pcf)	WATER CONTENT (%)	DRY DENSITY (pcf)	OPTIMUM MOISTURE (%)	MAXIMUM DRY DENSITY (pcf)	RELATIVE COMPACTION (%)	COMMENT
1	SB-49 Trench (east end)	1	8	119.6	8.96	109.8	9	127	86.45	Failed (7' Below grade
1B		1		133.3	11.0	120.1			94.56	Pass (7' Below grade)
2		1		125.3	9.01	114.9			90.48	Pass (9')
3		2		133.8	9.17	122.5			96.48	Pass (6)
4		2		125.8	9.53	114.9			90.44	Pass (8)
5		3		126.9	8.59	116.9			92.05	Pass (5)
6		4		128.4	8.96	117.9			92.80	Pass (4)
7		4		125.2	9.10	114.8			90.39	Pass (6.5)
8		5		132.6	7.8	123.0	8	130	94.65	Pass (3)
9 ~~8B~~		5		120.8	9.63	110.2			84.79	Fail (5)
9B		5		131.2	8.06	121.5			93.43	Pass (5)
10		6		134.3	8.85	123.3			94.89	Pass (2.5)
11		6		125.5	7.38	116.9			89.94	Pass (4)
12		7		132.5	10.04	120.4			92.64	Pass (3)

APPENDIX E
RISK ASSESSMENT ASSUMPTIONS AND CALCULATIONS

APPENDIX E
RISK ASSESSMENT CALCULATIONS

TABLE OF CONTENTS

SECTION PAGE

1.0 TECHNICAL APPROACH **1**

2.0 EQUATIONS **1**

2.1 BASELINE CONDITIONS 2
2.2 CONSTRUCTION WORKERS AND POST-DEVELOPMENT EMPLOYEES 3
2.2.1 Vapor Inhalation *3*
2.2.2 Particulate Emissions *6*
2.2.3 Ingestion of Soil *7*
2.2.4 Dermal Contact with Soil *7*

TABLES

E-1 Analytical Results and Statistical Analysis of VOCs in Soil
E-2 Analytical Results and Statistical Analysis of VOCs in Groundwater
E-3 Analytical Results and Statistical Analysis of PAHs in Soil
E-4 Analytical Results and Statistical Analysis of Metals in Soil
E-5 Summary of Toxicity Criteria
E-6 Summary of Exposure Parameters
E-7 Carcinogenic Risks from Inhalation of Vapors in Outdoor Air - Baseline Conditions
E-8 Non-Carcinogenic Risks from Inhalation of Vapors - Baseline Conditions
E-9 Calculation of Volatilization Factors for VOCs to Outdoor Air From Soil
E-10 Calculation of Volatilization Factors for VOCs to Indoor Air From Soil
E-11 Calculation of Volatilization Factors for VOCs to Outdoor Air From Groundwater
E-12 Calculation of Volatilization Factors for VOCs to Indoor Air From Groundwater
E-13 Carcinogenic Risks from Inhalation of Vapors from Soil - Construction Worker
E-14 Non-carcinogenic Risks from Inhalation of Vapors from Soil - Construction Worker
E-15 Carcinogenic Risks from Inhalation of Vapors from Groundwater - Construction Worker
E-16 Non-carcinogenic Risks from Inhalation of Vapors from Groundwater - Construction Worker
E-17 Reasonable Maximum Exposure Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Soil - Potential Future Employees
E-18 Reasonable Maximum Exposure Non-Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Soil - Potential Future Employees
E-19 Reasonable Maximum Exposure Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Groundwater - Potential Future Employees
E-20 Reasonable Maximum Exposure Non-Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Groundwater - Potential Future Employees

E-21 Reasonable Maximum Exposure Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Soil - Potential Future Employees
E-22 Reasonable Maximum Exposure Non-Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Soil - Potential Future Employees
E-23 Reasonable Maximum Exposure Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Groundwater - Potential Future Employees
E-24 Reasonable Maximum Exposure Non-Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Groundwater - Potential Future Employees
E-25 Calculation of Particulate Emission Factor for Fugitive Dust
E-26 Carcinogenic Risks from Inhalation of Fugitive Dust - Construction Worker
E-27 Non-carcinogenic Risks from Inhalation of Fugitive Dust - Construction Worker
E-28 Carcinogenic Risks from Incidental Ingestion of Soil - Construction Worker
E-29 Non-carcinogenic Risks from Incidental Ingestion of Soil - Construction Worker
E-30 Carcinogenic Risks from Dermal Contact with Soil - Construction Worker
E-31 Non-carcinogenic Risks from Dermal Contact with Soil - Construction Worker
E-32 Reasonable Maximum Exposure - Summary of Carcinogenic Risk Estimates
E-33 Reasonable Maximum Exposure – Summary of Non-Carcinogenic Risk Estimates

1.0 TECHNICAL APPROACH

The technical approach for simulations performed for this risk assessment is described in Section 7.0 in the main body of this report.

2.0 EQUATIONS

Estimates of potential human exposures to environmental contaminants hinge on the concept of determining empirically or estimating mathematically the exposure or dose of chemical received. This dose is expressed in terms of milligrams of chemical per kilogram of body weight per averaged over a period of one day (i.e., mg/kg-day). Once the dose of chemical received has been quantified, the resulting exposure estimate may be compared to acceptable exposure levels (as is the case with exposure to non-carcinogenic chemicals) or multiplied by a quantitative estimate of the chemical's inherent ability to induce cancer (i.e., cancer slope factor) in order to obtain a quantitative estimate of potential "risk".

While the methodologies for evaluating carcinogenic and non-carcinogenic chemicals differ slightly, chemical exposure (or dose) for carcinogenic and non-carcinogenic chemicals is quantified in essentially the same manner. Since exposure to carcinogens is average over a lifetime and exposure to non-carcinogens is averaged over the exposure period, the averaging time differs for carcinogenic and non-carcinogenic dose estimates. The following equation provides a simplified equation for calculating chemical exposure (or dose). The toxicity criteria and exposure parameters used in the assessment are presented in Tables E-5 and E-6.

$$Dose = \frac{C * ER * EF * ED}{BW * AT}$$

(Equation 1)

where,
Dose = Chemical exposure (mg/kg-day)
C = Concentration of chemical in matrix (mass of chemical/unit measure of matrix)
ER = Exposure rate (units/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
BW = body weight (kg)
AT = averaging time (days)
mg = milligrams
kg = kilograms
yr = year

For carcinogens, the dose of chemical received over a lifetime is expressed in terms of mg/kg-day. Since this dose is averaged over the average lifetime of 70 years, this term is often referred to as the Lifetime Average Daily Dose or LADD. A quantitative estimate

of risk is derived by multiplying the LADD by the Cancer Slope Factor (CSF). As the CSF is expressed in terms of $(mg/kg\text{-}day)^{-1}$, the resulting incremental cancer risk estimate is unitless.

$$Risk = LADD * CSF \qquad \textit{(Equation 2)}$$

Non-carcinogenic exposure is also expressed in terms of mg/kg-day. However, the dose is averaged over the duration of the exposure period rather than the lifetime of the individual and is expressed in terms of Average Daily Dose (ADD). A determination of potential risk is obtained by comparing the dose of chemical received to the Reference Dose. The Reference Dose reflects the dose an individual can receive on a daily basis over an entire lifetime without experiencing adverse health effects. The quantitative evaluation of potential non-carcinogenic health effects is expressed as the Hazard Index according to the expression described below:

$$Hazard\ Index\ (HI) = ADD / RfD \qquad \textit{(Equation 3)}$$

If the dose of chemical received exceeds the Reference Dose, the resulting quotient (a.k.a. Hazard Index or Hazard Quotient) will exceed unity (i.e., 1.0) and the potential for adverse non-carcinogenic health effects is assumed to exist. Conversely, a Hazard Index of less than 1.0 indicates that the potential for adverse, non-carcinogenic health effects is insignificant, even for sensitive sub-populations.

The various simulations presented herein were run using concentration parameters that are interpreted to represent a reasonable maximum exposure scenario. The reasonable maximum concentration is based on a statistical evaluation of the upper confidence interval of the arithmetic or geometric mean for a chemical of potential concern (COPC).

2.1 BASELINE CONDITIONS

Baseline conditions were used only for a human, such as a security guard or construction supervisor, not involved in soil disruption activities such as trenching and grading. Equations 1 through 3 were used to estimate the risk. The outdoor vapor concentration originating from impacted soil to which an individual could potentially be exposed under the baseline conditions was calculated as follows:

$$C_a = \frac{C_s}{VF} \qquad \textit{(Equation 4)}$$

For soil - outdoor air, VF was calculated using the following equation (Table E-9):

$$VF_o = (\frac{Q}{C})\frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as})}10^{-4} m^2 / cm^2$$

(Equation 5)

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for the baseline exposure scenario (Tables E-7 and E-8).

2.2 CONSTRUCTION WORKERS AND POST-DEVELOPMENT EMPLOYEES

2.2.1 Vapor Inhalation

The incremental lifetime cancer risk and hazard index were estimated for outdoor construction workers, future outdoor workers, and future indoor workers on the subject property. Vapor concentrations originating from both impacted soil and groundwater were evaluated.

2.2.1.1 Vapors Originating from Impacted Soil

The outdoor vapor concentrations originating from impacted soil to which construction workers potentially could be exposed and the indoor vapor concentrations to which future onsite employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_s}{VF}$$

(Equation 6)

where
C_a = concentration in air (mg/m^3)
C_s = concentration in soil (mg/kg)
VF = volatilization factor (m^3/kg)
m = meters

The outdoor vapor concentrations originating from impacted soil to which outdoor employees potentially will be exposed were calculated as follows:

$$C_a = \frac{C_s}{VF} * AF$$

(Equation 7)

where
AF = attenuation factor (unitless)

Note that an AF is included for future outdoor employees because the outdoor VF parameter for outdoor exposures does not include an AF parameter. Since the majority of the subject site will be paved following construction activities, the AF was included.

For soil - outdoor air, VF was calculated using the following equation (Table E-9):

$$VF_o = (\frac{Q}{C})\frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as})} 10^{-4} m^2 / cm^2$$

(Equation 8)

For soil - indoor air, VF was calculated using the following equation (Table E-10):

$$VF_i = \frac{VR}{(A * AF)} \frac{(3.14 * \alpha * T)^{\frac{1}{2}}}{(2 * D_e * P_a * K_{as} 10^{-3} kg / g)}$$

(Equation 9)

where,

$$\square = \frac{D_{ei} * P_a}{P_a + [(PD)(1 - P_a) / K_{as}]}$$

$$D_e = D_i (P_a^{3.33} / P_t^2)$$

$$P_a = P_t - wPD$$

$$BD = (1 - P_t)PD$$

$$K_{as} = (H / K_d)$$

$$K_d = K_{oc} f_{oc}$$

VR = ventilation rate (m^3/s)
A = area of contamination (cm^2)
AF = attenuation factor (dimensionless)
VF = Volatilization factor (m^3/kg)
Q/C = Inverse of the mean concentration at the center of an 8 acre source. (43.585 g/m^2 - s per kg/m^3, EPA, 1996)
T = exposure interval (s)
D_e = effective diffusivity (cm^2/s)
P_a = air filled soil porosity (fraction)
D_i = diffusivity in air (cm^2/s)
Pt = total soil porosity (fraction)
w = soil moisture content (fraction)

BD = bulk density (g/cm^3)
PD = soil particle density (g/cm^3)
K_{as} = soil-air partition coefficient (g-soil/cm^3-air)
H = Henry's Law constant (dimensionless)
K_d = soil-water partition coefficient (cm^3/g)
K_{oc} = soil organic carbon/water partition coefficient (cm^3/g)
f_{oc} = fraction organic carbon content (dimensionless)

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for outdoor construction workers (Tables E-13 and E-14), future outdoor employees (Tables E-17 and E-18), and future indoor employees (Tables E-21 and E-22).

2.2.1.2 Vapors Originating from Impacted Groundwater

The outdoor vapor concentrations originating from impacted groundwater to which construction workers potentially could potentially be exposed and the indoor vapor concentrations which future indoor employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_w}{VF}$$

(Equation 10)

where
C_w = concentration in groundwater (mg/l)
l = liters

The outdoor vapor concentrations originating from impacted groundwater to which future outdoor employees could potentially be exposed were calculated as follows:

$$C_a = \frac{C_w}{VF} * AF$$

(Equation 11)

Note that a slab attenuation factor (AF) is included for future outdoor employees because the outdoor volatilization factor (VF) parameter for outdoor exposures does not include an AF parameter. Because the vast majority of the subject property will be paved after development, the AF was included.

For the vapor flux from groundwater to outdoor air, VF was calculated using the following equation (Table E-11):

$$VF_o = (\frac{Q}{C}) \frac{L}{(H * 1000 \frac{l}{m^3} * D_e)}$$

(Equation 12)

For the vapor flux from groundwater to indoor air, VF was calculated using the following equation (Table E-12)

$$VF_i = \frac{VR}{(A * AF)} \frac{L}{(H * 1000 \frac{l}{m^3} * D_e)}$$

(Equation 13)

where:
Q/C = inverse of the mean concentration at center of source (m/hr)
L = depth to contaminated groundwater

The incremental lifetime cancer risks and hazard indices were derived from the dose calculations described in Equations 1 through 3 for construction workers (Tables E-15 and E-16), future outdoor employees (Tables E-19 and E-20), and future indoor employees (Tables E-23 and E-24).

2.2.2 Particulate Emissions

The incremental lifetime cancer risk and hazard index were estimated for outdoor construction workers.

The particulate emission factor was calculated as follows (Table E-25):

$$PEF = \frac{(LS * WS * MH * 3600 \frac{s}{hr})}{A} * \frac{1000 \frac{g}{kg}}{0.036 * (1 - G) * (\frac{U_m}{U_t})^3 * F(x)}$$

(Equation 14)

where,
PEF = particulate emission factor (m^3/kg)
LS = width of contaminated area (m)
WS = wind speed in mixing zone (m/s)
MH = diffusion height (m)
A = area of contamination (m^2)
0.036 = respirable fraction (g/m^2-hr)
G = fraction of vegetative cover (unitless)
U_m = mean annual wind speed (m/s)
U_t = equivalent threshold value of wind speed at 10 m (m/s)

F(x) = function dependent on U_m/U_t (unitless)

The incremental lifetime cancer risk (Table E-26) and hazard index (Table E-27) for exposure to chemicals present in fugitive dust were calculated using Equations 1 through 3, respectively. The chemical dose was calculated using the following equation:

$$Dose = \frac{Cs * IR * ET * EF * ED * (1/PEF)}{BW * AT}$$

(Equation 15)

where,
Dose = Chemical intake (mg/kg-day)
Cs = concentration in soil (mg/kg)
IR = inhalation rate (m^3/hour)
ET = exposure time (hr/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
PEF = Particulate emission factor (m^3/kg)
BW = body weight (kg)
AT = averaging time (days)

2.2.3 Ingestion of Soil

The incremental lifetime cancer risk and hazard index were estimated for construction workers from the following overview of the dose calculation (Tables E-28 and E-29):

$$Dose = \frac{Cs * 10^{-6} kg/mg * EF * IR * ED}{AT * BW}$$

(Equation 16)

where,
Cs = Concentration of chemical in soil (mg/kg)
IR = Soil ingestion rate (mg/day)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
AT = averaging time (days)
BW = body weight (kg)

2.2.4 Dermal Contact with Soil

The incremental lifetime cancer risk and hazard index were estimated for construction workers from the following dose calculation (Tables E-30 and E-31).

$$Dose = \frac{Cs * SA * AF * AC * 10^{-6} kg / mg * EF * ED}{AT * BW}$$

(Equation 17)

where,
Cs = Concentration of chemical in soil (mg/kg)
SA = Surface area of exposed skin (cm^2)
AF = Soil/Skin adherence factor (mg soil/cm^2 skin-day)
AC = Absorption coefficient for chemical across dermis (unitless)
EF = exposure frequency (days/yr)
ED = exposure duration (yr)
AT = averaging time (days)
BW = Body weight (kg)
yr = year

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-25	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0036	-5.63	<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-25	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0052	-5.26	<0.002	-6.91	0.025	-3.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-26	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0043	-5.45	<0.002	-6.91	0.035	-3.35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-27	6/18/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0028	-5.88	<0.002	-6.91	0.028	-3.58	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-28	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-29	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-30	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-31	6/19/97	35	<0.25	-2.08	<0.25	-2.08	<0.5	-1.39	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-32	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	19.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-32	6/19/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.005	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-34	6/20/97	35	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	15	<0.25	-2.08	<0.25	-2.08	<0.5	-1.39	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00
GP-35	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.002	-6.91	<0.002	-6.91	0.0061	-5.10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-35	6/20/97	35	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	0.0058	-5.15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	10	<0.025	-4.38	<0.025	-4.38	<0.05	-3.69	0.01	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-36	6/20/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	19.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-36	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	16.5	0.029	-3.54	<0.005	-5.99	<0.02	-4.61	0.0034	-5.68	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-37	6/20/97	25	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	30	<0.013	-5.04	<0.013	-5.04	<0.025	-4.38	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	17	<0.005	-5.99	<0.01	-5.30	0.035	-3.35	<0.002	-6.91	<0.002	-6.91	0.0032	-5.74	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.023	-3.77	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	25	<0.005	-5.99	<0.005	-5.99	0.024	-3.73	<0.002	-6.91	<0.002	-6.91	0.0055	-5.20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-38	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	5	<0.005	-5.99	<0.005	-5.99	0.025	-3.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-39	6/23/97	25	<0.005	-5.99	<0.005	-5.99	0.026	-3.65	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	30	<0.005	-5.99	<0.005	-5.99	0.034	-3.38	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-39	6/23/97	35	<0.02	-4.61	<0.1	-3.00	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
GP-40	6/23/97	15	<0.05	-3.69	<0.05	-3.69	<0.1	-3.00	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
GP-40	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-40	6/23/97	25	<0.025	-4.38	<0.025	-4.38	<0.05	-3.69	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-40	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-40	6/23/97	35	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	20	<0.005	-5.99	<0.005	-5.99	0.013	-4.34	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-41	6/23/97	30	<0.005	-5.99	<0.005	-5.99	0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	5	<0.005	-5.99	<0.005	-5.99	0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-42	6/23/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-43	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	15	<0.025	-4.38	<0.025	-4.38	<0.02	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-44	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.002	-6.21	<0.002	-6.91	0.0024	-6.03	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-44	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-45	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	10	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	15	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	20	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	25	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
GP-46	6/24/97	30	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	6.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	26	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-1	7/13/97	31	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	41.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
HS-1	7/13/97	51	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-1	7/13/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	6.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	11	<0.013	-5.04	<0.013	-5.04	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.015	-4.20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	26	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	0.047	-3.06	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-2	7/12/97	31	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	0.064	-2.75	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-2	7/12/97	36.5	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	0.014	-4.27	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-2	7/12/97	41.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	51.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-2	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	16	<1	-0.69	<1	-0.69	<4	0.69	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61
HS-3	7/12/97	21	<0.025	-4.38	<0.025	-4.38	<0.1	-3.00	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	26	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-3	7/12/97	31	<0.05	-3.69	<0.05	-3.69	<0.2	-2.30	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61
HS-3	7/12/97	36	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0065	-5.04	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-3	7/12/97	41	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0041	-5.50	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-3	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	51	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-3	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.0075	-4.89	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	11	0.0091	-4.70	<0.005	-5.99	<0.02	-4.61	0.0053	-5.24	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0033	-5.71	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	21	0.0086	-4.76	<0.005	-5.99	<0.02	-4.61	0.0061	-5.10	<0.002	-6.91	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	26	0.016	-4.14	<0.005	-5.99	<0.02	-4.61	0.013	-4.34	<0.002	-6.91	0.0075	-4.89	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	31	0.0094	-4.67	<0.005	-5.99	<0.02	-4.61	0.008	-4.83	<0.002	-6.91	0.0069	-4.98	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	36	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0023	-6.07	<0.002	-6.91	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	41	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	0.0059	-5.13	<0.002	-6.91	0.013	-4.34	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91
HS-4	7/12/97	46	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91
HS-4	7/12/97	51	<0.01	-5.30	<0.01	-5.30	<0.04	-3.91	<0.004	-6.21	<0.004	-6.21	0.0066	-5.02	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21
HS-4	7/12/97	56	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-4	7/12/97	61	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-5	7/13/97	21	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-6	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-6	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	6	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-7	7/13/97	21.5	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-8	7/13/97	6	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-8	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
HS-8	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-9	7/13/97	11	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
HS-9	7/13/97	16	<0.005	-5.99	<0.005	-5.99	<0.02	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91
SB48	8/28/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB67	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00		<0.01	-5.30	0.008	-4.83	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	0.038	-3.27	<0.005	-5.99	0.17	-1.77	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB89-WW	9/6/00		<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	0.019	-3.96	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5																		
MH-4	12/21/95	10																		
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5																		
MH-5	12/21/95	10																		
MH-6	12/21/95	5																		
MH-6	12/21/95	10																		
Cell 71	12/19/95	1																		
Cell 59	12/19/95	1																		
Cell 76	12/19/95	1																		
Cell 80	12/19/95	1																		
Cell 57	12/19/95	1																		
Cell 64	12/19/95	1																		
Cell 55	12/19/95	1																		
Cell 27	12/19/95	1																		
Cell 46	12/19/95	1																		
Cell 25	12/19/95	1																		
Cell 2	12/19/95	1																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
Cell 30	12/19/95	1																		
Cell 43	12/19/95	1																		
Cell 21	12/19/95	1																		
Cell 6	12/19/95	1																		
Cell 12	12/19/95	1																		
Cell 15	12/19/95	1																		
Cell 17	12/19/95	1																		
Cell 40	12/19/95	1																		
Cell 4	12/19/95	1																		
MH-4-4	12/22/95	20	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-4-5	12/22/95	30	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-4-6	12/22/95	40	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2-1	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2-2	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-7-1	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-7-2	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-8-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-8-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-9-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-9-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-10-3	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-1	12/21/95	1	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-2	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-11-3	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-19	12/21/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-3.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-3.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-3.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-19	12/21/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/22/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.024	-3.73	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-20	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-21	12/27/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.04	-3.22	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-21	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.019	-3.96	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.041	-3.19	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-22	12/27/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.024	-3.73	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/27/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/27/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.01	-4.61	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-23	12/28/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	5	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	10	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	15	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	0.16	-1.83	<0.01	-5.30	0.18	-1.71	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	20	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
GP-24	12/28/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	25	<0.2	-2.30	<0.1	-3.00	<2.5	0.22	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
MB-1	12/29/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.022	-3.82	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	45	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	50	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	55	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-1	12/29/95	59	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	25	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	30	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.076	-2.58	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	35	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	0.034	-3.38	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	40	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	45	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	50	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	55	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
MB-2	12/29/95	59	<0.02	-4.61	<0.01	-5.30	<0.25	-2.08	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
T9B-1		5					0.007	-4.96												
SB-1		26																		
SB-3		16											15	2.71						
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15					2													
SB-27		30					0.03													
GP-1		20																		
GP-1		25																		
GP-1		30																		
GP-2		5																		
GP-2		10											0.076	-2.58						
GP-2		15											0.41	-0.89						
GP-2		20																		
GP-2		25																		
GP-2		30											0.023	-3.77						
GP-3		20																		
GP-3		25																		
GP-3		30																		
GP-4		15																		
GP-4		20																		
GP-4		25											0.018	-4.02						
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25											0.098	-2.32						
GP-5		30																		
GP-6		5											0.055	-2.90						
GP-6		10																		
GP-6		15							13	2.56			2.7	0.99						
GP-6		20																		
GP-6		25											0.03	-3.51						
GP-6		30																		
GP-7		5											0.059	-2.83						
GP-7		10											0.018	-4.02						
GP-7		15																		
GP-7		20																		
GP-7		25																		
GP-7		30							0.014	-4.27			0.23	-1.47						
GP-8		20																		
GP-8		25											0.024	-3.73						
GP-8		30																		
GP-9		5							0.048	-3.04			5.3	1.67						
GP-9		15																		
GP-9		25																		
GP-9		30							0.039	-3.24			0.014	-4.27						
GP-10		5																		
GP-10		15											0.042	-3.17						
GP-10		25																		

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Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
GP-10		30							0.31	-1.17			0.032	-3.44						
GP-11		5																		
GP-11		15											0.019	-3.96						
GP-11		25																		
GP-11		30							0.014	-4.27										
GP-12		20											0.027	-3.61						
GP-12		30																		
GP-12		38																		
GP-13		5																		
GP-13		15											0.021	-3.86						
GP-13		25							0.21	-1.56			0.026	-3.65						
GP-13		30																		
GP-14		5																		
GP-14		15																		
GP-14		25																		
GP-14		30																		
GP-15		20																		
GP-15		30																		
GP-15		48																		
GP-16		10																		
GP-16		20							0.049	-3.02			0.004	-5.52						
GP-16		30																		
GP-17		15																		
GP-17		25																		
GP-17		30																		
GP-18		5																		
GP-18		15											0.027	-3.61						
GP-18		25																		
GP-18		30																		
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.00082	-7.11	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	<0.001	-7.60	<0.01	-5.30	0.0025	-5.99	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.01	-5.30	0.00098	-6.93	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.01	-5.30	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.01	-5.30	0.00087	-7.05	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.001	-7.60	<0.01	-5.30	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<1	-0.69	<1	-0.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0028	-5.88	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
JF-MS-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0018	-6.32	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-MS-S32-NW-10	10/30/00	10	<0.001	-7.60	<0.01	-5.30	0.0014	-6.57	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.001	-6.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.01	-5.30	0.00057	-7.47	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	0.00089	-7.02	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.001	-7.60	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.001	-7.60	<0.01	-5.30	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.0024	-6.03	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.00078	-7.16	<0.01	-5.30	0.0014	-6.57	<0.001	-7.60	<0.001	-7.60	0.0053	-5.24	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.001	-7.60	<0.01	-5.30	0.0011	-6.81	<0.001	-7.60	0.0015	-6.50	0.0065	-5.04	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	<0.001	-7.60	<0.01	-5.30	0.0013	-6.65	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.037	-3.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.01	-4.61	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	0.046	-3.08	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.009	-4.71	0.009	-4.71	0.107	-2.23
EX2-11-15	6/9/98	15	0.039	-3.24	<0.05	-3.69	<0.05	-3.69	0.012	-4.42	<0.005	-5.99	28.1	3.34	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-26-15	6/22/98	15	<0.005	-5.99	<0.05	-3.69	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	0.0052	-5.26	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-5-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-2-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX3-4-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-6-9.5	6/9/98	9.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-12-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-8-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-9-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-10-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-18-11.5	6/9/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.0066	-5.02	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-22-11	6/9/98	11.0	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.011	-4.51	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-24-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Vinyl chloride (mg/kg)		Trichlorofluoromethane (mg/kg)		Methylene chloride (mg/kg)		trans-1,2-Dichloroethene (mg/kg)		Chloroform (mg/kg)		Trichloroethene (mg/kg)		1,2-Dichloropropane (mg/kg)		Bromodichloromethane (mg/kg)		1,1,2-Trichloroethane (mg/kg)	
EX2-25-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.028	-3.58	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-26-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.035	-3.35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
Count including ND values (n):			351	351	351	351	354	354	359	359	351	351	374	374	351	351	351	351	351	351
Degrees of Freedom (n-1):			350	350	350	350	353	353	358	358	350	350	373	373	350	350	350	350	350	350
Arithmetic Mean of LT data:			NA	-5.64	NA	-5.49	NA	-4.37	NA	-6.16	NA	-6.35	NA	-5.86	NA	-6.36	NA	-6.35	NA	-6.35
Arithmetic Mean:			0.007	NA	0.009	NA	0.048	NA	0.042	NA	0.003	NA	0.146	NA	0.003	NA	0.004	NA	0.004	NA
[1]Variance of LT data(s^2):			NA	0.96	NA	0.58	NA	2.14	NA	1.37	NA	0.76	NA	2.37	NA	0.78	NA	0.80	NA	0.82
[1]Variance (s^2):			0.0008	NA	0.0015	NA	0.0288	NA	0.4709	NA	0.0001	NA	2.7946	NA	0.0001	NA	0.0002	NA	0.0002	NA
[1]Standard deviation of LT data (s):			NA	0.98	NA	0.76	NA	1.46	NA	1.17	NA	0.87	NA	1.54	NA	0.88	NA	0.89	NA	0.90
[1]Standard deviation (s):			0.0289	NA	0.0388	NA	0.1696	NA	0.6862	NA	0.0118	NA	1.6717	NA	0.0118	NA	0.0133	NA	0.0131	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	1.7	NA	1.649	NA	1.856	NA	1.739	NA	1.670	NA	1.863	NA	1.672	NA	1.675	NA	1.678
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			0.010	0.0063	0.012	0.0059	0.063	0.0423	0.102	0.0047	0.004	0.0028	0.288	0.0108	0.004	0.0028	0.0047	0.0028	0.005	0.0028
[2]Minimum value:			0.0005	NA	0.0025	NA	0.00057	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			0.046	NA	0.008	NA	2	NA	13	NA	0.0015	NA	28.1	NA	0.009	NA	0.009	NA	0.107	NA

es:
kg = milligrams per kilogram
= not applicable
LT = log transformed data
[1] Assumes random sampling and/or
ematic random sampling.
sed on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	25	0.0057	-5.17	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-25	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	25	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-26	6/18/97	35	0.054	-2.92	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-27	6/18/97	35	0.043	-3.15	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	25	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-28	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	20	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	25	0.0047	-5.36	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-29	6/19/97	30	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	10	0.0024	-6.03	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	15	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	20	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	25	0.043	-3.15	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	30	0.0036	-5.63	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-30	6/19/97	35	0.057	-2.86	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	5	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	15	0.027	-3.61	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	20	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	25	0.019	-3.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	30	0.024	-3.73	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-31	6/19/97	35	1.4	0.34	<0.1	-3.00	<0.1	-3.00			<0.1	-3.00			<0.25	-2.08	<0.25	-2.08	<0.25	-2.08

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	10	0.0049	-5.32	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	15	0.018	-4.02	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	20	0.0046	-5.38	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	25	0.059	-2.83	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	30	0.0033	-5.71	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	35	0.18	-1.71	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	5	0.0025	-5.99	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	10	0.0026	-5.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	15	0.023	-3.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	19.5	0.0029	-5.84	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	25	0.02	-3.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	30	0.022	-3.82	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-32	6/19/97	35	0.17	-1.77	<0.002	-6.91	<0.002	-6.91			0.0022	-6.12			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-34	6/20/97	35	0.01	-4.61	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-35	6/20/97	15	0.99	-0.01	<0.1	-3.00	<0.1	-3.00			<0.1	-3.00			<0.25	-2.08	<0.25	-2.08	<0.25	-2.08
GP-35	6/20/97	20	0.021	-3.86	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-35	6/20/97	35	0.0067	-5.01	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-36	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	10	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	0.24	-1.43	0.032	-3.44
GP-36	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-36	6/20/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	16.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			0.0067	-5.01			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-37	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-37	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
GP-38	6/23/97	17	0.0051	-5.28	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	25	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-38	6/23/97	30	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	5	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	10	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	15	0.047	-3.06	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	20	0.013	-4.34	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-39	6/23/97	25	0.07	-2.66	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-39	6/23/97	35	0.8	-0.22	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
GP-40	6/23/97	15	0.16	-1.83	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
GP-40	6/23/97	20	0.01	-4.61	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-40	6/23/97	25	0.057	-2.86	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
GP-40	6/23/97	30	0.069	-2.67	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-40	6/23/97	35	0.048	-3.04	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	15	0.0069	-4.98	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	25	0.08	-2.53	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-41	6/23/97	30	0.0026	-5.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-42	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	25	0.0022	-6.12	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-43	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	15	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
GP-44	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	25	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-44	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-45	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
GP-46	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	6.5	0.048	-3.04	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	11	0.089	-2.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	21	0.019	-3.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	26	0.58	-0.54	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-1	7/13/97	31	0.17	-1.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	41.5	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	46	0.017	-4.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
HS-1	7/13/97	51	0.0032	-5.74	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-1	7/13/97	61	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	11	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.013	-5.04	<0.013	-5.04	<0.013	-5.04
HS-2	7/12/97	16	0.0039	-5.55	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	21	0.0037	-5.60	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	26	0.055	-2.90	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-2	7/12/97	31	0.075	-2.59	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-2	7/12/97	36.5	0.025	-3.69	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-2	7/12/97	41.5	0.0026	-5.95	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	46	0.0031	-5.78	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	51.5	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	56	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-2	7/12/97	61	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	16	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61			0.98	-0.02			<1	-0.69	2.8	1.03	<1	-0.69
HS-3	7/12/97	21	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30			<0.01	-5.30			<0.025	-4.38	<0.025	-4.38	<0.025	-4.38
HS-3	7/12/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-3	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61			<0.02	-4.61			<0.05	-3.69	<0.05	-3.69	<0.05	-3.69
HS-3	7/12/97	36	0.018	-4.02	<0.004	-6.21	<0.004	-6.21			0.0044	-5.43			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	41	0.0074	-4.91	<0.004	-6.21	<0.004	-6.21			<0.004	-6.21			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-3	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	51	0.007	-4.96	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	56	0.012	-4.42	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-3	7/12/97	61	0.025	-3.69	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	0.027	-3.61	<0.005	-5.99
HS-4	7/12/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	0.0075	-4.89	<0.005	-5.99
HS-4	7/12/97	21	0.0023	-6.07	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	26	0.0087	-4.74	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	31	0.011	-4.51	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	36	0.0085	-4.77	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	41	0.046	-3.08	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	46	0.0071	-4.95	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	51	0.022	-3.82	<0.004	-6.21	<0.004	-6.21			<0.004	-6.21			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30
HS-4	7/12/97	56	0.004	-5.52	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-4	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-5	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-6	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-6	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-7	7/13/97	21.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-8	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-8	7/13/97	11	0.0035	-5.65	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
HS-8	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-9	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
HS-9	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91			<0.002	-6.91			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB48	8/28/00		0.019	-3.96	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00		0.84	-0.17	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00		0.065	-2.73	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SBo7	8/31/00		0.023	-3.77	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00		7.2	1.97	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00		0.09	-2.41	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00		0.15	-1.90	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00		0.33	-1.11	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00		0.07	-2.66	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00		9.5	2.25	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00		0.043	-3.15	<0.005	-5.99	<0.005	-5.99			<0.005	-5.99			<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00		0.049	-3.02	<0.005	-5.99	<0.005	-5.99			0.023	-3.77			0.024	-3.73	0.13	-2.04	0.013	-4.34
SB89-WW	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99			0.007	-4.96			<0.005	-5.99	0.007	-4.96	0.009	-4.71
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5									<0.01	-5.30								
MH-4	12/21/95	10									<0.01	-5.30								
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5									<0.01	-5.30								
MH-5	12/21/95	10									<0.01	-5.30								
MH-6	12/21/95	5									<0.01	-5.30								
MH-6	12/21/95	10									<0.01	-5.30								
Cell 71	12/19/95	1									<0.01	-5.30								
Cell 59	12/19/95	1									<0.01	-5.30								
Cell 76	12/19/95	1									<0.01	-5.30								
Cell 80	12/19/95	1									<0.01	-5.30								
Cell 57	12/19/95	1									<0.01	-5.30								
Cell 64	12/19/95	1									<0.01	-5.30								
Cell 55	12/19/95	1									<0.01	-5.30								
Cell 27	12/19/95	1									<0.01	-5.30								
Cell 46	12/19/95	1									<0.01	-5.30								
Cell 25	12/19/95	1									<0.01	-5.30								
Cell 2	12/19/95	1									<0.01	-5.30								

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
[redacted] 30	12/19/95	1									<0.01	-5.30								
Cell 43	12/19/95	1									<0.01	-5.30								
Cell 21	12/19/95	1									<0.01	-5.30								
[redacted]ell 6	12/19/95	1									<0.01	-5.30								
[redacted] 12	12/19/95	1									<0.01	-5.30								
[redacted] 15	12/19/95	1									<0.01	-5.30								
[redacted] 17	12/19/95	1									<0.01	-5.30								
Cell 40	12/19/95	1									<0.01	-5.30								
Cell 4	12/19/95	1									<0.01	-5.30								
MH-4-4	12/22/95	20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-4-5	12/22/95	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-4-6	12/22/95	40	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-2-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]H-2-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-7-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-7-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-8-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-8-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-9-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-9-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-10-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
MH-10-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-10-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-11-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-11-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
[redacted]-11-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.025	-4.38	<0.005	-5.99	<0.025	-4.38						
GP-19	12/21/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	15	0.075	-2.59	<0.01	-5.30	<0.02	-4.61												
[redacted]P-19	12/21/95	20	0.012	-4.42	<0.01	-5.30	<0.02	-4.61												
[redacted]P-19	12/21/95	25	0.22	-1.51	<0.01	-5.30	<0.02	-4.61												
[redacted]P-19	12/21/95	30	0.078	-2.55	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	35	0.34	-1.08	<0.01	-5.30	<0.02	-4.61												
GP-19	12/21/95	40	0.11	-2.21	<0.01	-5.30	<0.02	-4.61												
GP-20	12/22/95	5	0.055	-2.90	<0.01	-5.30	<0.02	-4.61												
[redacted]P-20	12/22/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
[redacted]P-20	12/22/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
[redacted]P-20	12/22/95	20	0.01	-4.61	<0.01	-5.30	<0.02	-4.61												
[redacted]P-20	12/22/95	25	0.92	-0.08	<0.01	-5.30	<0.02	-4.61												
GP-20	12/27/95	30	0.48	-0.73	<0.01	-5.30	<0.02	-4.61												
GP-20	12/27/95	35	1	----0.00	<0.01	-5.30	<0.02	-4.61												
[redacted]P-20	12/27/95	40	0.023	-3.77	<0.01	-5.30	<0.02	-4.61												
[redacted]P-21	12/27/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
[redacted]P-21	12/27/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
[redacted]P-21	12/27/95	15	0.02	-3.91	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-21	12/27/95	25	0.17	-1.77	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	30	0.021	-3.86	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	35	0.56	-0.58	<0.01	-5.30	<0.02	-4.61												
GP-21	12/27/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	20	0.075	-2.59	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	25	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	30	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-22	12/27/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/27/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/27/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	25	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	30	0.021	-3.86	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-23	12/28/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	5	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	10	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	15	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	20	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	25	0.023	-3.77	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	30	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	35	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
GP-24	12/28/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	25	4.1	1.41	<0.1	-3.00	<0.2	-2.30												
MB-1	12/29/95	30	0.7	-0.36	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	35	2	0.69	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	40	0.17	-1.77	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	45	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	50	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	55	0.055	-2.90	<0.01	-5.30	<0.02	-4.61												
MB-1	12/29/95	59	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	25	0.085	-2.47	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	30	0.26	-1.35	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	35	0.13	-2.04	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	40	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	45	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	50	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	55	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
MB-2	12/29/95	59	<0.01	-5.30	<0.01	-5.30	<0.02	-4.61												
T9B-1		5																		
SB-1		26																		
SB-3		16	430	6.06																
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15																		
SB-27		30																		
GP-1		20	0.51	-0.67																
GP-1		25																		
GP-1		30																		
GP-2		5	0.83	-0.19																
GP-2		10	0.74	-0.30																
GP-2		15	4.1	1.41																
GP-2		20																		
GP-2		25																		
GP-2		30																		
GP-3		20																		
GP-3		25																		
GP-3		30																		
GP-4		15																		
GP-4		20																		
GP-4		25	0.026	-3.65																
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25	0.092	-2.39																
GP-5		30																		
GP-6		5																		
GP-6		10	0.045	-3.10																
GP-6		15	55	4.01																
GP-6		20	0.022	-3.82																
GP-6		25	0.026	-3.65																
GP-6		30																		
GP-7		5	7	1.95																
GP-7		10	0.14	-1.97																
GP-7		15	0.049	-3.02																
GP-7		20																		
GP-7		25																		
GP-7		30	0.68	-0.39																
GP-8		20																		
GP-8		25	0.022	-3.82																
GP-8		30																		
GP-9		5	2.7	0.99																
GP-9		15																		
GP-9		25																		
GP-9		30	0.026	-3.65																
GP-10		5																		
GP-10		15	3.5	1.25																
GP-10		25																		

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Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
GP-10		30	0.18	-1.71																
GP-11		5	1.9	0.64																
GP-11		15	0.055	-2.90																
GP-11		25	0.8	-0.22																
GP-11		30	0.002	-6.21																
GP-12		20	0.016	-4.14																
GP-12		30	0.035	-3.35																
GP-12		38																		
GP-13		5	0.19	-1.66																
GP-13		15																		
GP-13		25	1.7	-0.53																
GP-13		30	0.78	-0.25																
GP-14		5																		
GP-14		15																		
GP-14		25	0.036	-3.32																
GP-14		30	0.007	-4.96																
GP-15		20	0.25	-1.39																
GP-15		30	0.43	-0.84																
GP-15		48	0.31	-1.17																
GP-16		10	0.35	-1.05																
GP-16		20	0.021	-3.86																
GP-16		30	0.29	-1.24																
GP-17		15	0.21	-1.56																
GP-17		25	2.9	1.06																
GP-17		30	0.24	-1.43																
GP-18		5																		
GP-18		15	0.029	-3.54																
GP-18		25	1.3	0.26																
GP-18		30	0.032	-3.44																
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0049	-5.32	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.059	-2.83	<0.001	-7.60	<0.001	-7.60	0.048	-3.04	0.026	-3.65	0.014	-4.27	0.031	-3.47	0.06	-2.81	0.0052	-5.26
JF-M1-S39-SW-8	11/2/00	8	0.00099	-6.92	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	0.00065	-7.34	<0.001	-7.60	<0.001	-7.60	0.0078	-4.85	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0054	-5.22	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0032	-5.74	<0.001	-7.60	<0.02	-4.61	0.0012	-6.73	0.0029	-5.84	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0058	-5.15	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	0.0011	-6.81	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	0.27	-1.31	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0036	-5.63	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	0.0031	-5.78	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	0.046	-3.08	<0.001	-7.60	<0.001	-7.60	0.022	-3.82	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	0.0054	-5.22	<0.001	-7.60	<0.001	-7.60	0.0043	-5.45	<0.001	-7.60	<0.02	-4.61	0.002	-6.21	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	0.0049	-5.32	<0.001	-7.60	<0.001	-7.60	0.023	-3.77	<0.001	-7.60	0.0067	-5.01	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	0.0041	-5.50	<0.001	-7.60	<0.001	-7.60	0.004	-5.52	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<2	0.00	<0.1	-3.00	<2	0.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.003	-5.81	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0037	-5.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.02	-3.91	<0.001	-7.60	<0.02	-4.61	0.0046	-5.38	0.069	-2.67	0.0055	-5.20
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.01	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.015	-4.20	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0074	-4.91	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	2.5	0.92	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05	0.0013	-6.65	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	1.7	0.53	<0.001	-7.60	<0.001	-7.60	0.0058	-5.15	0.00061	-7.40	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	1.4	0.34	<0.001	-7.60	<0.001	-7.60	0.14	-1.97	<0.001	-7.60	0.031	-3.47	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	0.15	-1.90	<0.001	-7.60	<0.001	-7.60	0.066	-2.72	<0.001	-7.60	0.013	-4.34	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	0.0055	-5.20	<0.001	-7.60	<0.001	-7.60	0.01	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B-6	10/24/00	6	0.0099	-4.62	<0.001	-7.60	<0.001	-7.60	0.012	-4.42	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	1.1	0.10	<0.001	-7.60	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.4	-0.92	<0.001	-7.60	<0.001	-7.60	0.024	-3.73	0.0054	-5.22	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	9.8	2.28	0.0012	-6.73	<0.001	-7.60	0.005	-5.30	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	0.14	-1.97	<0.001	-7.60	<0.001	-7.60	0.0034	-5.68	<0.001	-7.60	<0.02	-4.61	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	0.036	-3.32	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	0.0094	-4.67	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	0.12	-2.12	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	0.061	-2.80	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	0.016	-4.14	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	0.1	-2.30	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	0.0062	-5.08	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	0.016	-4.14	0.382	-0.96	0.023	-3.77	0.086	-2.45	0.009	-4.71	0.008	-4.83	<0.005	-5.99
EX2-26-15	6/22/98	15	308	3.73	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	0.3	-1.20	<0.05	-3.69	<0.005	-5.99	2.3	0.83	<0.005	-5.99
EX2-4-7	6/9/98	7	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-5-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-1-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-2-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX3-4-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-6-9.5	6/9/98	9.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-12-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX2-13-12.5	6/9/98	12.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99												
EX1-8-11.5	6/9/98	11.5	0.15	-1.90	<0.005	-5.99	<0.005	-5.99												
EX1-9-11.5	6/9/98	11.5	0.054	-2.92	<0.005	-5.99	<0.005	-5.99												
EX1-10-11.5	6/9/98	11.5	0.17	-1.77	<0.005	-5.99	<0.005	-5.99												
EX2-18-11.5	6/9/98	11.5	0.29	-1.24	<0.005	-5.99	<0.005	-5.99												
EX2-22-11	6/9/98	11.0	0.044	-3.12	<0.005	-5.99	<0.005	-5.99												
EX2-24-6.5	6/9/98	6.5	0.0096	-4.65	<0.005	-5.99	<0.005	-5.99												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Tetrachloroethene (mg/kg)		Chlorobenzene (mg/kg)		1,1,2,2-Tetrachloroethane (mg/kg)		Acetone (mg/kg)		Benzene (mg/kg)		2-Butanone (mg/kg)		n-Butylbenzene (mg/kg)		sec-Butylbenzene (mg/kg)		tert-Butylbenzene (mg/kg)	
EX2-25-6.5	6/9/98	6.5	0.14	-1.97	<0.005	-5.99	<0.005	-5.99												
EX2-26-6	6/9/98	6	0.68	-0.39	<0.005	-5.99	<0.005	-5.99												
Count including ND values (n):			394	394	351	351	351	351	64	64	297	297	64	64	254	254	254	254	254	254
Degrees of Freedom (n-1):			393	393	350	350	350	350	63	63	296	296	63	63	253	253	253	253	253	253
Arithmetic Mean of LT data:			NA	-4.57	NA	-6.35	NA	-6.24	NA	-4.25	NA	-6.45	NA	-4.23	NA	-5.96	NA	-5.88	NA	-5.98
Arithmetic Mean:			2.238	NA	0.003	NA	0.004	NA	0.038	NA	0.007	NA	0.031	NA	0.006	NA	0.026	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	6.07	NA	0.76	NA	1.12	NA	1.00	NA	0.94	NA	0.47	NA	0.82	NA	1.27	NA	0.82
[1]Variance (s^2):			715.51	NA	0.0001	NA	0.0002	NA	0.0171	NA	0.0035	NA	0.0150	NA	0.0011	NA	0.0517	NA	0.0011	NA
[1]Standard deviation of LT data (s):			NA	2.46	NA	0.87	NA	1.06	NA	1.00	NA	0.97	NA	0.69	NA	0.90	NA	1.13	NA	0.91
[1]Standard deviation (s):			26.75	NA	0.0118	NA	0.0129	NA	0.1307	NA	0.0595	NA	0.1226	NA	0.0333	NA	0.2273	NA	0.0333	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.098	NA	1.670	NA	1.723	NA	2.457	NA	1.783	NA	2.147	NA	1.896	NA	2.005	NA	1.853
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.67	NA	1.65	NA	1.67	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			4.460	0.2780	0.004	0.0028	0.006	0.0038	0.065	0.0320	0.01263	0.0028	0.056	0.0222	0.010	0.0043	0.050	0.0061	0.010	0.0042
[2]Minimum value:			0.0005	NA	0.0005	NA	0.0005	NA	0.003	NA	0.0005	NA	0.0067	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			430	NA	0.0012	NA	0.016	NA	0.382	NA	0.98	NA	0.086	NA	0.031	NA	2.8	NA	0.032	NA

tes:
/kg = milligrams per kilogram
A = not applicable
L T = log transformed data
[1] Assumes random sampling and/or
stematic random sampling.
ased on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-25	6/18/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	25			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-25	6/18/97	35			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	10			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	15			0.0031	-5.78	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	20			0.004	-5.52	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	25			0.19	-1.66	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	30			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-26	6/18/97	35			0.13	-2.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	10			0.0023	-6.07	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	15			0.0079	-4.84	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	20			0.013	-4.34	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	25			0.024	-3.73	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	30			0.038	-3.27	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-27	6/18/97	35			0.098	-2.32	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	20			0.0065	-5.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	25			0.091	-2.40	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-28	6/19/97	30			0.018	-4.02	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-29	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	25			0.0059	-5.13	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-30	6/19/97	35			0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-31	6/19/97	35			<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-32	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	35			0.0055	-5.20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	19.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-32	6/19/97	35			0.0046	-5.38	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	20			0.027	-3.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	30			0.068	-2.69	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-34	6/20/97	35			0	-2.21	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-35	6/20/97	15			<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08	<0.1	-3.00	<0.1	-3.00	<0.25	-2.08
GP-35	6/20/97	20			0	-1.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	25			0.0097	-4.64	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	30			0.051	-2.98	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-35	6/20/97	35			0	-1.66	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-36	6/20/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	10			<0.01	-5.30	<0.01	-5.30	0.012	-4.42	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-36	6/20/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	19.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	25			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	30			0.0043	-5.45	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-36	6/20/97	35			0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	16.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	20			0.043	-3.15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-37	6/20/97	25			0.23	-1.47	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-37	6/20/97	30			0.19	-1.66	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
GP-38	6/23/97	17			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	20			0.0	-5.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	25			0.032	-3.44	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-38	6/23/97	30			0.019	-3.96	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-39	6/23/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-39	6/23/97	35			<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.1	-3.00	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61
GP-40	6/23/97	15			<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
GP-40	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.05	-3.69	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-40	6/23/97	25			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-40	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-40	6/23/97	35			0.0021	-6.17	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	25			0.0026	-5.95	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-41	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	25			0.002	-6.21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-42	6/23/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	25			0.0042	-5.47	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-43	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	15			<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	0.19	-1.66	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
GP-44	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	25			0.0003	-5.07	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-44	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	25			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-45	6/24/97	30			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	10			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	15			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	20			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	25			0.0047	-5.36	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
GP-46	6/24/97	30			0.0021	-6.17	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	6.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	21			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	26			<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-1	7/13/97	31			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	41.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	46			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
HS-1	7/13/97	51			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-1	7/13/97	61			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	6.5			0.012	-4.42	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	11			0.15	-1.90	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04	<0.005	-5.99	<0.005	-5.99	<0.013	-5.04
HS-2	7/12/97	16			0.0093	-4.68	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	21			0.056	-2.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	26			0.58	-0.54	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-2	7/12/97	31			0.91	-0.09	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-2	7/12/97	36.5			0.16	-1.83	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-2	7/12/97	41.5			0.011	-4.51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	46			0.0088	-4.73	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	51.5			0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	56			0.0052	-5.26	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-2	7/12/97	61			0.0028	-5.88	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	16			17	2.83	<0.4	-1.61	1.5	0.41	<0.4	-1.61	7.9	2.07	2.4	0.88	<0.4	-1.61	<1	-0.69
HS-3	7/12/97	21			0.093	-2.38	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38	<0.01	-5.30	<0.01	-5.30	<0.025	-4.38
HS-3	7/12/97	26			1	0.00	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-3	7/12/97	31			2	0.69	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69	<0.02	-4.61	<0.02	-4.61	<0.05	-3.69
HS-3	7/12/97	36			0.42	-0.87	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-3	7/12/97	41			0.27	-1.31	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-3	7/12/97	46			0.014	-4.27	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	51			0.024	-3.73	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	56			0.041	-3.19	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-3	7/12/97	61			0.13	-2.04	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	11			0.0084	-4.78	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	16			0.015	-4.20	<0.002	-6.91	0.0027	-5.91	<0.002	-6.91	0.013	-4.34	0.0043	-5.45	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	21			0.066	-2.72	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	26			0.2	-1.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	31			0.16	-1.83	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	36			0.048	-3.04	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	41			0.1	-2.30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	46			0.021	-3.86	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	51			0.1	-2.30	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30	<0.004	-6.21	<0.004	-6.21	<0.01	-5.30
HS-4	7/12/97	56			0.01	-4.61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-4	7/12/97	61			0.002	-6.21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-5	7/13/97	21			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-6	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-6	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	6			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-7	7/13/97	21.5			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-8	7/13/97	6			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-8	7/13/97	11			<0.002	-6.91	0.0038	-5.57	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
HS-8	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-9	7/13/97	11			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
HS-9	7/13/97	16			<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.005	-5.99
SB48	8/28/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB50	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB51	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB52	8/29/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB67	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB68	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB70	8/31/00				0.009	-4.71	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB71	8/31/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
05SB76	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
06SB77	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
07SB78	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
08SB79	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB81	9/1/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB82	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB83	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB84	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB85	9/4/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB86	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB87	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
SB88-B	9/6/00				0.015	-4.20	0.32	-1.14	0.2	-1.61	<0.005	-5.99	1.4	0.34	0.35	-1.05	<0.005	-5.99	<0.005	-5.99
SB89-WW	9/6/00				<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.037	-3.30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
MH-2	12/21/95	5																		
MH-2	12/21/95	10																		
MH-4	12/21/95	5					<0.01	-5.30												
MH-4	12/21/95	10					<0.01	-5.30												
MH-4	12/21/95	20																		
MH-4	12/21/95	30																		
MH-4	12/21/95	40																		
MH-5	12/21/95	5					<0.01	-5.30												
MH-5	12/21/95	10					<0.01	-5.30												
MH-6	12/21/95	5					<0.01	-5.30												
MH-6	12/21/95	10					<0.01	-5.30												
Cell 71	12/19/95	1					<0.01	-5.30												
Cell 59	12/19/95	1					<0.01	-5.30												
Cell 76	12/19/95	1					<0.01	-5.30												
Cell 80	12/19/95	1					<0.01	-5.30												
Cell 57	12/19/95	1					<0.01	-5.30												
Cell 64	12/19/95	1					<0.01	-5.30												
Cell 55	12/19/95	1					<0.01	-5.30												
Cell 27	12/19/95	1					<0.01	-5.30												
Cell 46	12/19/95	1					<0.01	-5.30												
Cell 25	12/19/95	1					<0.01	-5.30												
Cell 2	12/19/95	1					<0.01	-5.30												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
Cell 30	12/19/95	1					<0.01	-5.30												
Cell 43	12/19/95	1					<0.01	-5.30												
Cell 21	12/19/95	1					<0.01	-5.30												
Cell 6	12/19/95	1					<0.01	-5.30												
Cell 12	12/19/95	1					<0.01	-5.30												
Cell 15	12/19/95	1					<0.01	-5.30												
Cell 17	12/19/95	1					<0.01	-5.30												
Cell 40	12/19/95	1					<0.01	-5.30												
Cell 4	12/19/95	1					<0.01	-5.30												
MH-4-4	12/22/95	20	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-4-5	12/22/95	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-4-6	12/22/95	40	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-2-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-2-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-7-1	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-7-2	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-8-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-8-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-9-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-9-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-10-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-1	12/21/95	1	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-2	12/21/95	5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
MH-11-3	12/21/95	10	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99									<0.005	-5.99		
GP-19	12/21/95	5			<0.01	-5.30														
GP-19	12/21/95	10			<0.01	-5.30														
GP-19	12/21/95	15			<0.01	-5.30														
GP-19	12/21/95	20			<0.01	-5.30														
GP-19	12/21/95	25			<0.01	-5.30														
GP-19	12/21/95	30			<0.01	-5.30														
GP-19	12/21/95	35			<0.01	-5.30														
GP-19	12/21/95	40			<0.01	-5.30														
GP-20	12/22/95	5			<0.01	-5.30														
GP-20	12/22/95	10			<0.01	-5.30														
GP-20	12/22/95	15			<0.01	-5.30														
GP-20	12/22/95	20			<0.01	-5.30														
GP-20	12/22/95	25			<0.01	-5.30														
GP-20	12/27/95	30			<0.01	-5.30														
GP-20	12/27/95	35			<0.01	-5.30														
GP-20	12/27/95	40			<0.01	-5.30														
GP-21	12/27/95	5			<0.01	-5.30														
GP-21	12/27/95	10			<0.01	-5.30														
GP-21	12/27/95	15			<0.01	-5.30														
GP-21	12/27/95	20			<0.01	-5.30														

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-21	12/27/95	25			<0.01	-5.30														
GP-21	12/27/95	30			<0.01	-5.30														
GP-21	12/27/95	35			<0.01	-5.30														
GP-21	12/27/95	40			<0.01	-5.30														
GP-22	12/27/95	5			<0.01	-5.30														
GP-22	12/27/95	10			<0.01	-5.30														
GP-22	12/27/95	15			<0.01	-5.30														
GP-22	12/27/95	20			<0.01	-5.30														
GP-22	12/27/95	25			<0.01	-5.30														
GP-22	12/27/95	30			<0.01	-5.30														
GP-22	12/27/95	35			0.02	-3.91														
GP-22	12/27/95	40			0.014	-4.27														
GP-23	12/27/95	15			<0.01	-5.30														
GP-23	12/27/95	20			<0.01	-5.30														
GP-23	12/28/95	25			<0.01	-5.30														
GP-23	12/28/95	30			0.01	-4.61														
GP-23	12/28/95	35			<0.01	-5.30														
GP-23	12/28/95	40			<0.01	-5.30														
GP-24	12/28/95	5			<0.01	-5.30														
GP-24	12/28/95	10			<0.01	-5.30														
GP-24	12/28/95	15			0.11	-2.21														
GP-24	12/28/95	20			<0.01	-5.30														
GP-24	12/28/95	25			0.013	-4.34														
GP-24	12/28/95	30			<0.01	-5.30														
GP-24	12/28/95	35			<0.01	-5.30														
GP-24	12/28/95	40			<0.01	-5.30														
MB-1	12/29/95	25			<0.1	-3.00														
MB-1	12/29/95	30			<0.01	-5.30														
MB-1	12/29/95	35			<0.01	-5.30														
MB-1	12/29/95	40			<0.01	-5.30														
MB-1	12/29/95	45			<0.01	-5.30														
MB-1	12/29/95	50			<0.01	-5.30														
MB-1	12/29/95	55			<0.01	-5.30														
MB-1	12/29/95	59			<0.01	-5.30														
MB-2	12/29/95	25			0.26	-1.35														
MB-2	12/29/95	30			0.97	-0.03														
MB-2	12/29/95	35			0.51	-0.67														
MB-2	12/29/95	40			0.015	-4.20														
MB-2	12/29/95	45			<0.01	-5.30														
MB-2	12/29/95	50			<0.01	-5.30														
MB-2	12/29/95	55			<0.01	-5.30														
MB-2	12/29/95	59			<0.01	-5.30														
T9B-1		5																		
SB-1		26																		
SB-3		16																		
SB-3		26																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
SB-22		11																		
SB-22		26																		
SB-27		15			53	3.97														
SB-27		30			0.02	-3.91														
GP-1		20			4	1.39														
GP-1		25																		
GP-1		30			0.018	-4.02														
GP-2		5																		
GP-2		10																		
GP-2		15																		
GP-2		20			0.041	-3.19														
GP-2		25			0.032	-3.44														
GP-2		30			0.19	-1.66														
GP-3		20			0.015	-4.20														
GP-3		25			0.022	-3.82														
GP-3		30			0.018	-4.02														
GP-4		15																		
GP-4		20																		
GP-4		25			0.23	-1.47														
GP-4		30																		
GP-5		15																		
GP-5		20																		
GP-5		25			0.53	-0.63														
GP-5		30			0.015	-4.20														
GP-6		5			0.23	-1.47														
GP-6		10			0.021	-3.86														
GP-6		15			2.1	0.74														
GP-6		20			0.023	-3.77														
GP-6		25			0.12	-2.12														
GP-6		30			0.11	-2.21														
GP-7		5																		
GP-7		10			0.073	-2.62														
GP-7		15																		
GP-7		20																		
GP-7		25																		
GP-7		30			1.3	0.26														
GP-8		20																		
GP-8		25			0.38	-0.97														
GP-8		30			0.019	-3.96														
GP-9		5			0.71	-0.34														
GP-9		15																		
GP-9		25																		
GP-9		30																		
GP-10		5																		
GP-10		15			0.014	-4.27														
GP-10		25			0.015	-4.20														

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Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.00098	-6.93	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	0.0012	-6.73	<0.001	-7.60	0.0015	-6.50	0.0092	-4.69	<0.001	-7.60	0.013	-4.34	0.013	-4.34	<0.001	-7.60	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.01	-5.30	<0.001	-7.60	0.00051	-7.58	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S12B-NW-6	11/2/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.01	-5.30	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.01	-5.30	0.00061	-7.40	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.01	-5.30	0.02	-3.91	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	<0.01	-5.30	0.025	-3.69	0.0052	-5.26	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.01	-5.30	0.0065	-5.04	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.0064	-5.05
JF-SB49-S9B-NW-6	11/1/00	6	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0024	-6.03	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	0.009	-4.71	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.05	-3.69	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	<0.05	-3.69	<0.005	-5.99	0.013	-4.34	0.01	-4.61	0.024	-3.73	<0.05	-3.69	<0.005	-5.99	0.008	-4.83	<0.005	-5.99
EX2-26-15	6/22/98	15	<0.05	-3.69	14.7	2.69	<0.005	-5.99	1.1	0.10	<0.005	-5.99	<0.05	-3.69	1.6	0.47	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7																		
EX2-5-5.5	6/9/98	5.5																		
EX3-1-5.5	6/9/98	5.5																		
EX3-2-6	6/9/98	6																		
EX3-3-5.5	6/9/98	5.5																		
EX3-4-5.5	6/9/98	5.5																		
EX2-6-9.5	6/9/98	9.5																		
EX2-12-15	6/9/98	15																		
EX2-13-12.5	6/9/98	12.5																		
EX2-13-12.5	6/9/98	12.5																		
EX1-8-11.5	6/9/98	11.5																		
EX1-9-11.5	6/9/98	11.5																		
EX1-10-11.5	6/9/98	11.5																		
EX2-18-11.5	6/9/98	11.5																		
EX2-22-11	6/9/98	11.0																		
EX2-24-6.5	6/9/98	6.5																		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
EX2-25-6.5	6/9/98	6.5																		
EX2-26-6	6/9/98	6																		
Count including ND values (n):			64	64	368	368	297	297	254	254	254	254	254	254	254	254	271	271	254	254
Degrees of Freedom (n-1):			63	63	367	367	296	296	253	253	253	253	253	253	253	253	270	270	253	253
Arithmetic Mean of LT data:			NA	-5.12	NA	-5.25	NA	-6.45	NA	-6.57	NA	-6.65	NA	-5.46	NA	-6.57	NA	-6.63	NA	-6.00
Arithmetic Mean:			0.016	NA	0.294	NA	0.005	NA	0.014	NA	0.003	NA	0.052	NA	0.020	NA	0.003	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	1.07	NA	4.21	NA	0.92	NA	1.10	NA	0.73	NA	1.24	NA	1.16	NA	0.65	NA	0.78
[1]Variance (s^2):			0.0038	NA	9.0310	NA	0.0009	NA	0.0137	NA	0.0002	NA	0.2644	NA	0.0331	NA	0.0002	NA	0.0011	NA
[1] Standard deviation of LT data (s):			NA	1.03	NA	2.05	NA	0.96	NA	1.05	NA	0.85	NA	1.11	NA	1.08	NA	0.81	NA	0.88
[1]Standard deviation (s):			0.0616	NA	3.0052	NA	0.0304	NA	0.1171	NA	0.0140	NA	0.5142	NA	0.1819	NA	0.0132	NA	0.0333	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.384	NA	2.099	NA	1.837	NA	1.971	NA	1.875	NA	2.005	NA	1.994	NA	1.790	NA	1.855
Student's t value ($t_{0.1}$):			1.67	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA
95% upper confidence level (UCL):			0.029	0.0140	0.552	0.0541	0.008	0.0028	0.026	0.0028	0.0047	0.0021	0.105	0.0091	0.039	0.0029	0.004	0.0020	0.010	0.0040
[2]Minimum value:			0.0011	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.00098	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:			0.0025	NA	53	NA	0.36	NA	1.5	NA	0.0300	NA	7.9	NA	2.4	NA	0.009	NA	0.0064	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-25	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-26	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-27	6/18/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-28	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-29	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	5	<0.002	-6.91	0.0085	-4.77	0.0024	-6.03	0.0021	-6.17	<0.002	-6.91		
GP-30	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-30	6/19/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-31	6/19/97	35	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Carbon Disulfide (mg/kg)		cis-1,2-Dichloroethene (mg/kg)		Ethylbenzene (mg/kg)		Isopropylbenzene (mg/kg)		p-Isopropyltoluene (mg/kg)		Naphthalene (mg/kg)		n-Propylbenzene (mg/kg)		Styrene (mg/kg)		1,1,1,2-Tetrachloroethane (mg/kg)	
GP-10		30																		
GP-11		5																		
GP-11		15			0.026	-3.65														
GP-11		25			0.47	-0.76														
GP-11		30																		
GP-12		20																		
GP-12		30			0.31	-1.17														
GP-12		38																		
GP-13		5																		
GP-13		15																		
GP-13		25			0.45	-0.80														
GP-13		30																		
GP-14		5																		
GP-14		15																		
GP-14		25			0.044	-3.12														
GP-14		30																		
GP-15		20																		
GP-15		30																		
GP-15		48																		
GP-16		10			0.015	-4.20														
GP-16		20																		
GP-16		30																		
GP-17		15																		
GP-17		25																		
GP-17		30																		
GP-18		5																		
GP-18		15			0.013	-4.34														
GP-18		25			0.54	-0.62														
GP-18		30			0.031	-3.47														
JF-M1-S37-EW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.0011	-6.81	<0.001	-7.60	0.36	-1.02	0.091	-2.40	0.03	-3.51	1.7	0.53	0.12	-2.12	<0.001	-7.60	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	0.0014	-6.57	0.0017	-6.38	0.00052	-7.56	0.011	-4.51	0.0031	-5.78	<0.001	-7.60	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	0.00056	-7.49	<0.001	-7.60	0.0033	-5.71	0.00096	-6.95	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	0.0025	-5.99	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	<0.01	-5.30	<0.001	-7.60	0.0035	-5.65	0.00054	-7.52	<0.001	-7.60	0.0028	-5.88	0.0029	-5.84	<0.001	-7.60	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0012	-6.73	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<1	-6.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<1	-6.69	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00
JF-M8-S30-SW-10	10/30/00	10	<0.01	-5.30	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60	0.0026	-5.95	<0.001	-7.60	<0.001	-7.60	<0.001	-7.60

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	35	<0.002	-6.91	0.003	-5.81	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	10	<0.002	-6.91	0.0044	-5.43	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-32	6/19/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-34	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-35	6/20/97	15	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00	<0.1	-3.00		
GP-35	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-35	6/20/97	35	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-36	6/20/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	10	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-36	6/20/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	19.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-36	6/20/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	16.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-37	6/20/97	25	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-37	6/20/97	30	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
GP-38	6/23/97	17	<0.005	-5.99	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-38	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-39	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-39	6/23/97	35	<0.05	-3.69	<0.02	-4.61	<0.05	-3.69	<2	0.00	<0.02	-4.61		
GP-40	6/23/97	15	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
GP-40	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-40	6/23/97	25	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-40	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-40	6/23/97	35	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-41	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-42	6/23/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-43	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	15	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
GP-44	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-44	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-45	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	10	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	15	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	20	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	25	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
GP-46	6/24/97	30	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-1	7/13/97	31	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	41.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
HS-1	7/13/97	51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-1	7/13/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	6.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	11	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99		
HS-2	7/12/97	16	0.0027	-5.91	<0.002	-6.91	<0.002	-6.91	0.0024	-6.03	<0.002	-6.91		
HS-2	7/12/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	26	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-2	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-2	7/12/97	36.5	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-2	7/12/97	41.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	51.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-2	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	16	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61	<0.4	-1.61		
HS-3	7/12/97	21	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30	<0.01	-5.30		
HS-3	7/12/97	26	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-3	7/12/97	31	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61	<0.02	-4.61		
HS-3	7/12/97	36	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-3	7/12/97	41	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-3	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	51	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-3	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	26	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	31	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	36	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	41	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	46	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	51	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21	<0.004	-6.21		
HS-4	7/12/97	56	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-4	7/12/97	61	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-5	7/13/97	21	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-6	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-6	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-7	7/13/97	21.5	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-8	7/13/97	6	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-8	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	0.017	-4.07	0.0068	-4.99		

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
HS-8	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-9	7/13/97	11	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
HS-9	7/13/97	16	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91		
SB48	8/28/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB50	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB51	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB52	8/29/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB67	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB68	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB70	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB71	8/31/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
05SB76	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
06SB77	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
07SB78	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
08SB79	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB81	9/1/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB82	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB83	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB84	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB85	9/4/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB86	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB87	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB88-B	9/6/00		<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.01	-5.30	<0.005	-5.99		
SB89-WW	9/6/00		<0.005	-5.99	<0.005	-5.99	0.009	-4.71	<0.01	-5.30	<0.005	-5.99		
MH-2	12/21/95	5												
MH-2	12/21/95	10												
MH-4	12/21/95	5	<0.01	-5.30										
MH-4	12/21/95	10	<0.01	-5.30										
MH-4	12/21/95	20												
MH-4	12/21/95	30												
MH-4	12/21/95	40												
MH-5	12/21/95	5	<0.01	-5.30										
MH-5	12/21/95	10	<0.01	-5.30										
MH-6	12/21/95	5	<0.01	-5.30										
MH-6	12/21/95	10	<0.01	-5.30										
Cell 71	12/19/95	1	<0.01	-5.30										
Cell 59	12/19/95	1	<0.01	-5.30										
Cell 76	12/19/95	1	<0.01	-5.30										
Cell 80	12/19/95	1	<0.01	-5.30										
Cell 57	12/19/95	1	<0.01	-5.30										
Cell 64	12/19/95	1	<0.01	-5.30										
Cell 55	12/19/95	1	<0.01	-5.30										
Cell 27	12/19/95	1	<0.01	-5.30										
Cell 46	12/19/95	1	<0.01	-5.30										
Cell 25	12/19/95	1	<0.01	-5.30										
Cell 2	12/19/95	1	<0.01	-5.30										

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
Cell 30	12/19/95	1	<0.01	-5.30										
Cell 43	12/19/95	1	<0.01	-5.30										
Cell 21	12/19/95	1	<0.01	-5.30										
Cell 6	12/19/95	1	<0.01	-5.30										
Cell 12	12/19/95	1	<0.01	-5.30										
Cell 15	12/19/95	1	<0.01	-5.30										
Cell 17	12/19/95	1	<0.01	-5.30										
Cell 40	12/19/95	1	<0.01	-5.30										
Cell 4	12/19/95	1	<0.01	-5.30										
MH-4-4	12/22/95	20	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-4-5	12/22/95	30	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-4-6	12/22/95	40	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-2-1	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-2-2	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-7-1	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-7-2	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-8-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-8-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-9-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-9-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-10-3	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-1	12/21/95	1	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-2	12/21/95	5	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
MH-11-3	12/21/95	10	<0.005	-5.99					<0.005	-5.99	<0.005	-5.99		
GP-19	12/21/95	5												
GP-19	12/21/95	10												
GP-19	12/21/95	15												
GP-19	12/21/95	20												
GP-19	12/21/95	25												
GP-19	12/21/95	30												
GP-19	12/21/95	35												
GP-19	12/21/95	40												
GP-20	12/22/95	5												
GP-20	12/22/95	10												
GP-20	12/22/95	15												
GP-20	12/22/95	20												
GP-20	12/22/95	25												
GP-20	12/27/95	30												
GP-20	12/27/95	35												
GP-20	12/27/95	40												
GP-21	12/27/95	5												
GP-21	12/27/95	10												
GP-21	12/27/95	15												
GP-21	12/27/95	20												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-21	12/27/95	25												
GP-21	12/27/95	30												
GP-21	12/27/95	35												
GP-21	12/27/95	40												
GP-22	12/27/95	5												
GP-22	12/27/95	10												
GP-22	12/27/95	15												
GP-22	12/27/95	20												
GP-22	12/27/95	25												
GP-22	12/27/95	30												
GP-22	12/27/95	35												
GP-22	12/27/95	40												
GP-23	12/27/95	15												
GP-23	12/27/95	20												
GP-23	12/28/95	25												
GP-23	12/28/95	30												
GP-23	12/28/95	35												
GP-23	12/28/95	40												
GP-24	12/28/95	5												
GP-24	12/28/95	10												
GP-24	12/28/95	15												
GP-24	12/28/95	20												
GP-24	12/28/95	25												
GP-24	12/28/95	30												
GP-24	12/28/95	35												
GP-24	12/28/95	40												
MB-1	12/29/95	25												
MB-1	12/29/95	30												
MB-1	12/29/95	35												
MB-1	12/29/95	40												
MB-1	12/29/95	45												
MB-1	12/29/95	50												
MB-1	12/29/95	55												
MB-1	12/29/95	59												
MB-2	12/29/95	25												
MB-2	12/29/95	30												
MB-2	12/29/95	35												
MB-2	12/29/95	40												
MB-2	12/29/95	45												
MB-2	12/29/95	50												
MB-2	12/29/95	55												
MB-2	12/29/95	59												
T9B-1		5												
SB-1		26												
SB-3		16												
SB-3		26												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
SB-22		11												
SB-22		26												
SB-27		15												
SB-27		30												
GP-1		20												
GP-1		25												
GP-1		30												
GP-2		5												
GP-2		10												
GP-2		15												
GP-2		20												
GP-2		25												
GP-2		30												
GP-3		20												
GP-3		25												
GP-3		30												
GP-4		15												
GP-4		20												
GP-4		25												
GP-4		30												
GP-5		15												
GP-5		20												
GP-5		25												
GP-5		30												
GP-6		5												
GP-6		10												
GP-6		15												
GP-6		20												
GP-6		25												
GP-6		30												
GP-7		5												
GP-7		10												
GP-7		15												
GP-7		20												
GP-7		25												
GP-7		30												
GP-8		20												
GP-8		25												
GP-8		30												
GP-9		5												
GP-9		15												
GP-9		25												
GP-9		30												
GP-10		5												
GP-10		15												
GP-10		25												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
GP-10		30												
GP-11		5												
GP-11		15												
GP-11		25												
GP-11		30												
GP-12		20												
GP-12		30												
GP-12		38												
GP-13		5												
GP-13		15												
GP-13		25												
GP-13		30												
GP-14		5												
GP-14		15												
GP-14		25												
GP-14		30												
GP-15		20												
GP-15		30												
GP-15		48												
GP-16		10												
GP-16		20												
GP-16		30												
GP-17		15												
GP-17		25												
GP-17		30												
GP-18		5												
GP-18		15												
GP-18		25												
GP-18		30												
JF-M1-S37-EW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M1-S38-B-14	11/2/00	14	0.0032	-5.74	3.3	1.19	0.14	-1.97	0.22	-1.51	0.003	-5.81	<0.001	-7.60
JF-M1-S39-SW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M1-S40-WW-8	11/2/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M2-S16-B-10	10/25/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S33-EW-10	10/30/00	10	0.00094	-6.97	0.0033	-5.71	<0.002	-6.91	0.0023	-6.07	0.0007	-7.26	<0.001	-7.60
JF-M3-S34-WW-14	10/31/00	14	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S35-NW-13	10/31/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M3-S36-SW-13	10/31/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S22-EW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S23-SW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S24-B-13	10/25/00	13	0.0072	-4.93	0.028	-3.58	0.0081	-4.82	0.017	-4.07	0.0063	-5.07	<0.001	-7.60
JF-M7-S25-WW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M7-S26-NW-8	10/25/00	8	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M8-S27-B-13	10/26/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M8-S28-WW-10	10/26/00	13	<0.1	-3.00	<0.2	-2.30	<0.2	-2.30	<0.2	-2.30	<0.1	-3.00	0.2	-1.61
JF-M8-S30-SW-10	10/30/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.001	-6.91	<0.001	-7.60	<0.001	-7.60

Table E-1
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Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
JF-M8-S31-EW-10	10/30/00	10	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.0006	-7.42	<0.001	-7.60	<0.001	-7.60
JF-M8-S32-NW-10	10/30/00	10	0.0012	-6.73	0.0033	-5.71	<0.002	-6.91	0.0061	-5.10	0.0011	-6.81	<0.001	-7.60
JF-M9-S17-WW-5	10/25/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S18-NW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S20-SW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-M9-S21-EW-5	10/25/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S10B-B-8	11/2/00	8	0.0011	-6.81	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	0.013	-4.34
JF-SB49-S12B-NW-6	11/2/00	6	0.00061	-7.40	<0.002	-6.91	<0.002	-6.91	0.00061	-7.40	<0.001	-7.60	<0.001	-7.60
JF-SB49-S13-B-6	10/24/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	0.00085	-7.07	<0.001	-7.60	<0.001	-7.60
JF-SB49-S15-NW-5	10/24/00	5	<0.001	-7.60	0.0014	-6.57	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S2-NW-5	10/24/00	5	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S3-B -6	10/24/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S4B-B-13	10/26/00	13	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S6-NW-5	10/24/00	5	0.0012	-6.73	<0.002	-6.91	<0.002	-6.91	0.0011	-6.81	0.00095	-6.96	<0.001	-7.60
JF-SB49-S7B-B-12	11/1/00	12	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
JF-SB49-S9B-NW-6	11/1/00	6	<0.001	-7.60	<0.002	-6.91	<0.002	-6.91	<0.002	-6.91	<0.001	-7.60	<0.001	-7.60
EX1-11-6	6/11/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-7-11.5	6/10/98	11.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-5-5.5	6/10/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX1-3-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-2-5.5	6/9/98	5.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-1-5.5	6/9/98	5.5	0.008	-4.83	<0.005	-5.99	<0.005	-5.99	0.01	-4.61	<0.005	-5.99	<0.005	-5.99
EX2-7-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-8-6	6/9/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-9-6.5	6/9/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6	6/11/98	6	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-23-6.5	6/11/98	6.5	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99
EX2-10-15	6/9/98	15	<0.005	-5.99	<0.005	-5.99	<0.005	-5.99	0.007	-4.96	<0.005	-5.99	<0.005	-5.99
EX2-11-15	6/9/98	15	0.013	-4.34	<0.005	-5.99	0.02	-3.91	0.02	-3.91	0.016	-4.14	0.01	-4.61
EX2-26-15	6/22/98	15	<0.005	-5.99	0.2	-1.61	<0.005	-5.99	0.5	-0.69	<0.005	-5.99	<0.005	-5.99
EX2-4-7	6/9/98	7												
EX2-5-5.5	6/9/98	5.5												
EX3-1-5.5	6/9/98	5.5												
EX3-2-6	6/9/98	6												
EX3-3-5.5	6/9/98	5.5												
EX3-4-5.5	6/9/98	5.5												
EX2-6-9.5	6/9/98	9.5												
EX2-12-15	6/9/98	15												
EX2-13-12.5	6/9/98	12.5												
EX2-13-12.5	6/9/98	12.5												
EX1-8-11.5	6/9/98	11.5												
EX1-9-11.5	6/9/98	11.5												
EX1-10-11.5	6/9/98	11.5												
EX2-18-11.5	6/9/98	11.5												
EX2-22-11	6/9/98	11.0												
EX2-24-6.5	6/9/98	6.5												

Table E-1
Analytical Results and Statistical Analysis of VOCs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Toluene (mg/kg)		1,2,4-Trimethylbenzene (mg/kg)		1,3,5-Trimethylbenzene (mg/kg)		m,p-Xylenes (mg/kg)		o-Xylene (mg/kg)		Methyl-tert-Butyl Ether (mg/kg)	
EX2-25-6.5	6/9/98	6.5												
EX2-26-6	6/9/98	6												
Count including ND values (n):			297	297	254	254	254	254	271	271	271	271	47	47
Degrees of Freedom (n-1):			296	296	253	253	253	253	270	270	270	270	46	46
Arithmetic Mean of LT data:			NA	-6.48	NA	-6.50	NA	-6.55	NA	-6.40	NA	-6.60	NA	-6.90
Arithmetic Mean:			0.003	NA	0.017	NA	0.004	NA	0.010	NA	0.003	NA	0.006	NA
[1]Variance of LT data(s^2):			NA	0.73	NA	0.93	NA	0.69	NA	1.07	NA	0.64	NA	1.40
[1]Variance (s^2):			0.0002	NA	0.0431	NA	0.0003	NA	0.0049	NA	0.0002	NA	0.0008	NA
[1]Standard deviation of LT data (s):			NA	0.85	NA	0.96	NA	0.83	NA	1.03	NA	0.80	NA	1.18
[1]Standard deviation (s):			0.0126	NA	0.2077	NA	0.0170	NA	0.0702	NA	0.0132	NA	0.0287	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	1.761	NA	1.965	NA	1.849	NA	1.904224	NA	1.7938	NA	2.576
Student's t value ($t_{0.1}$):			1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.65	NA	1.68	NA
95% upper confidence level (UCL):			0.004	0.0024	0.039	0.0027	0.006	0.0022	0.017	0.0032	0.004	0.0020	0.013	0.0032
[2]Minimum value:			0.0005	NA	0.001	NA	0.001	NA	0.0006	NA	0.0005	NA	0.0005	NA
Maximum value:			0.013	NA	3.3	NA	0.14	NA	0.5	NA	0.016	NA	0.2	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-2
Analytical Results and Statistical Analysis of VOCs in Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Well ID	Date	Benzene (mg/l)		Toluene (mg/l)		Ethyl benzene (mg/l)		Total Xylenes (mg/l)		MTBE (mg/l)		PCE (mg/l)	
MMW-3	03/15/94	0.0040	-5.5215	0.0130	-4.3428	0.0260	-3.64966	0.1010	-2.29263			0.0050	-5.29832
MMW-3	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0040	-5.52146
MMW-3	09/16/94	<0.001	-7.6009	0.0030	-5.8091	<0.001	-7.60090	0.0060	-5.11600			<0.001	-7.60090
MMW-3	12/16/94	<0.001	-7.6009	0.0080	-4.8283	0.0020	-6.21461	0.0080	-4.82831			0.0030	-5.80914
MMW-3	03/08/95	0.0280	-3.5756	0.0280	-3.5756	0.0020	-6.21461	0.0180	-4.01738			0.0040	-5.52146
MMW-3	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0120	-4.42285
MMW-3	08/03/98	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0080	-4.82831
MMW-3	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0050	-5.29832
MMW-3	06/06/00	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0032	-5.74460
MMW-3	08/31/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.002	-6.90776	0.0019	-6.26590	0.0044	-5.42615
MMW-4	03/15/94	<0.001	-7.6009	0.0040	-5.5215	0.0100	-4.60517	0.0380	-3.27017			0.0040	-5.52146
MMW-4	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0020	-6.21461
MMW-4	09/16/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			<0.001	-7.60090
MMW-4	12/16/94	<0.001	-7.6009	0.0070	-4.9618	0.0030	-5.80914	0.0090	-4.71053			0.0010	-6.90776
MMW-4	03/08/95	0.0020	-6.2146	0.0020	-6.2146	<0.001	-7.60090	0.0010	-6.90776			0.0050	-5.29832
MMW-4	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.0042	-5.47267
MMW-4	08/03/98	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0020	-6.21461
MMW-4	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0044	-5.42615
MMW-4	06/06/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.0056	-5.18499
MMW-4	08/31/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.002	-6.90776	<0.001	-7.60090	0.0067	-5.00565
MMW-5	03/15/94	<0.001	-7.6009	<0.001	-7.6009	0.0110	-4.50986	0.0370	-3.29684			0.3300	-1.10866
MMW-5	06/22/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.9300	-0.07257
MMW-5	09/16/94	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			0.8300	-0.18633
MMW-5	12/16/94	<0.001	-7.6009	0.0010	-6.9078	0.0020	-6.21461	0.0010	-6.90776			1.4000	0.33647
MMW-5	03/08/95	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			2.2000	0.78846
MMW-5	03/26/97	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090			1.1000	0.09531
MMW-5	10/22/98	<0.0003	-8.8049	0.0004	-7.8240	<0.0003	-8.80488	0.0006	-7.41858	<0.01	-5.29832		
MMW-5	11/20/98	0.0030	-5.8091	0.0030	-5.8091	<0.002	-6.90776	0.0010	-6.90776	<0.005	-5.99146	0.6600	-0.41552
MMW-5	05/02/00	<0.0005	-8.2940	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.6600	-0.41552
MMW-5	06/06/00	<0.001	-7.6009	<0.001	-7.6009	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	0.1000	-2.30259
MMW-5	09/15/00	<0.0025	-6.6846	<0.005	-5.9915	<0.005	-5.99146	<0.01	-5.29832	<0.005	-5.99146	0.3900	-0.94161
California Primary MCLs:		0.001	NA	0.15	NA	0.7	NA	1.75	NA	0.013	NA	0.005	NA
Count including ND values (n):		31	31	31	31	31	31	31	31	13	13	30	30
Degrees of Freedom (n-1):		30	30	30	30	30	30	30	30	12	12	29	29
Arithmetic Mean of LT data:		NA	-7.44	NA	-6.90	NA	-7.05	NA	-6.58	NA	-7.07	NA	-3.95
Arithmetic Mean:		1.59E-03	NA	2.64E-03	NA	2.26E-03	NA	7.62E-03	NA	1.26E-03	NA	0.29	NA
Sample Variance of LT data(s^2):		NA	1.00	NA	1.40	NA	1.27	NA	2.53	NA	0.72	NA	7.13
Sample Variance (s^2):		2.47E-05	NA	3.00E-05	NA	2.57E-05	NA	3.92E-04	NA	1.89E-06	NA	0.28	NA
Standard Deviation, LT data (s):		NA	1.00	NA	1.18	NA	1.13	NA	1.59	NA	0.85	NA	2.67
Standard deviation (s):		4.97E-03	NA	5.48E-03	NA	5.07E-03	NA	1.98E-02	NA	1.37E-03	NA	0.53	NA
Probability (two sided test):		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:		NA	2.42	NA	2.65	NA	2.59	NA	3.21	NA	2.562	NA	5.27
Student's t value ($t_{0.1}$):		1.70	NA	1.70	NA	1.70	NA	1.70	NA	1.78	NA	1.70	NA
95% upper confidence level (UCL):		0.0031	0.0015	0.0043	0.0036	0.0038	0.0028	0.0137	0.0125	0.0019	0.0023	0.4544	9.2661
Minimum value:		0.0002	NA	0.0004	NA	0.0002	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:		0.0280	NA	0.0280	NA	0.0260	NA	0.1010	NA	0.0019	NA	2.2000	NA

Notes:
mg/l = milligrams per liter
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-2
Analytical Results and Statistical Analysis of VOCs in Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Well ID	Date	TCE (mg/l)		1,1-DCA (mg/l)		1,1-DCE (mg/l)		cis-1,2-DCE (mg/l)		1,2-DCA (mg/l)		1,2-Dichloropropane (mg/l)	
MMW-3	03/15/94	0.0250	-3.68888	0.0020	-6.21461	0.0100	-4.60517						
MMW-3	06/22/94	0.0240	-3.72970	0.0020	-6.21461	0.0080	-4.82831						
MMW-3	09/16/94	0.0120	-4.42285	<0.001	-7.60090	0.0030	-5.80914						
MMW-3	12/16/94	0.0170	-4.07454	0.0020	-6.21461	0.0050	-5.29832						
MMW-3	03/08/95	0.0200	-3.91202	0.0020	-6.21461	0.0020	-6.21461						
MMW-3	03/26/97	0.0230	-3.77226	0.0020	-6.21461	0.0070	-4.96185						
MMW-3	08/03/98	0.0210	-3.86323	0.0020	-6.21461	0.0060	-5.11600						
MMW-3	05/02/00	0.0160	-4.13517	0.0018	-6.31997	0.0092	-4.68855	<0.001	-7.60090	0.0013	-6.64539	0.0011	-6.81245
MMW-3	06/06/00	0.0120	-4.42285	0.0014	-6.57128	0.0056	-5.18499	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-3	08/31/00	0.0150	-4.19971	0.0017	-6.37713	0.0065	-5.03595	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	03/15/94	0.0180	-4.01738	<0.001	-7.60090	0.0020	-6.21461						
MMW-4	06/22/94	0.0160	-4.13517	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	09/16/94	0.0060	-5.11600	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	12/16/94	0.0060	-5.11600	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	03/08/95	0.0090	-4.71053	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	03/26/97	0.0040	-5.52146	<0.001	-7.60090	<0.001	-7.60090						
MMW-4	08/03/98	0.0040	-5.52146	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	05/02/00	0.0120	-4.42285	0.0017	-6.37713	0.0018	-6.31997	0.0014	-6.57128	0.0007	-7.27882	<0.001	-7.60090
MMW-4	06/06/00	0.0150	-4.19971	0.0021	-6.16582	0.0025	-5.99146	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-4	08/31/00	0.0170	-4.07454	0.0019	-6.26590	0.0020	-6.21461	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-5	03/15/94	0.0600	-2.81341	<0.001	-7.60090	0.0050	-5.29832						
MMW-5	06/22/94	0.1000	-2.30259	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	09/16/94	0.0820	-2.50104	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	12/16/94	0.1400	-1.96611	<0.001	-7.60090	0.0050	-5.29832						
MMW-5	03/08/95	0.1800	-1.71480	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	03/26/97	0.0880	-2.43042	<0.001	-7.60090	<0.001	-7.60090						
MMW-5	10/22/98												
MMW-5	11/20/98	0.0910	-2.39690	<0.002	-6.90776	0.0090	-4.71053	0.0770	-2.56395				
MMW-5	05/02/00	0.0900	-2.40795	0.0034	-5.68398	0.0390	-3.24419	0.2700	-1.30933	0.0010	-6.90776	0.0040	-5.52146
MMW-5	06/06/00	0.0240	-3.72970	<0.001	-7.60090	0.0190	-3.96332	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
MMW-5	09/15/00	0.0520	-2.95651	0.0031	-5.77635	0.0410	-3.19418	<0.001	-7.60090	<0.001	-7.60090	<0.001	-7.60090
California Primary MCLs:		0.005	NA	0.005	NA	0.006	NA	0.006	NA	0.0005	NA	0.005	NA
Count including ND values (n):		30	30	30	30	30	30	11	11	10	10	10	10
Degrees of Freedom (n-1):		29	29	29	29	29	29	10	10	9	9	9	9
Arithmetic Mean of LT data:		NA	-3.74	NA	-6.92	NA	-5.94	NA	-6.48	NA	-7.40	NA	-7.31
Arithmetic Mean:		4.00E-02	NA	1.25E-03	NA	6.45E-03	NA	3.20E-02	NA	6.49E-04	NA	9.10E-04	NA
Sample Variance of LT data(s^2):		NA	1.07	NA	0.51	NA	1.97	NA	5.21	NA	0.12	NA	0.46
Sample Variance (s^2):		1.96E-03	NA	7.52E-07	NA	1.00E-04	NA	6.75E-03	NA	7.82E-08	NA	1.21E-06	NA
Standard Deviation, LT data (s):		NA	1.04	NA	0.72	NA	1.40	NA	2.28	NA	0.35	NA	0.68
Standard deviation (s):		4.43E-02	NA	8.67E-04	NA	1.00E-02	NA	8.22E-02	NA	2.80E-04	NA	1.10E-03	NA
Probability (two sided test):		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:		NA	2.61	NA	2.20	NA	3.13	NA	6.47	NA	2.03	NA	2.50
Student's t value ($t_{0.1}$):		1.70	NA	1.70	NA	1.70	NA	1.81	NA	1.83	NA	1.83	NA
95% upper confidence level (UCL):		0.0537	0.0670	0.0015	0.0017	0.0096	0.0159	0.0769	2.2229	0.0008	0.0008	0.0015	0.0015
Minimum value:		0.0040	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA	0.0005	NA
Maximum value:		0.1800	NA	0.0034	NA	0.0410	NA	0.2700	NA	0.0013	NA	0.0040	NA

Notes:
mg/l = milligrams per liter
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Naphthalene (mg/kg)		Phenanthrene (mg/kg)		Pyrene (mg/kg)	
GP-25	6/18/97	15	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-25	6/18/97	20	<0.02	-4.605	0.006	-5.116	<0.005	-5.991
GP-25	6/18/97	25	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-26	6/18/97	35	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-32	6/19/97	5	0.13	-2.040	<0.005	-5.991	<0.005	-5.991
GP-34	6/20/97	5	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	26	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	46	0.021	-3.863	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	51	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-5	7/13/97	16	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-8	7/13/97	11	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-4.30	NA	-5.91	NA	-5.99
Arithmetic Mean:			2.19E-02	NA	2.82E-03	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	5.58E-01	NA	6.33E-02	NA	-1.50E-14
[1]Variance (s^2):			1.18E-03	NA	1.01E-06	NA	2.69E-21	NA
[1]Standard deviation of LT data (s):			NA	7.47E-01	NA	2.52E-01	NA	#NUM!
[1]Standard deviation (s):			0.0343	NA	0.0010	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.621	NA	1.929	NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			0.0407	0.0332	0.0034	0.0033	0.0025	#NUM!
Minimum value:			0.01	NA	0.0025	NA	0.0025	NA
Maximum value:			0.13	NA	0.006	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Acenaphthene (mg/kg)		Acenaphthylene (mg/kg)		Anthracene (mg/kg)		Benz (a) anthracene (mg/kg)		Benzo (a) pyrene (mg/kg)		Benzo (b) fluoranthene (mg/kg)		Benzo (g,h,i) perylene (mg/kg)	
GP-25	6/18/97	15	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-25	6/18/97	20	0.032	-3.4420194	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-25	6/18/97	25	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-26	6/18/97	35	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-32	6/19/97	5	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
GP-34	6/20/97	5	<0.02	-4.6051702	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	26	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	46	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-3	6/18/97	51	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-5	7/13/97	16	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
HS-8	7/13/97	11	<0.05	-3.6888795	<0.05	-3.689	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.002	-6.908	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11	11	11	11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10	10	10	10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-4.08	NA	-3.69	NA	-6.91	NA	-6.91	NA	-6.91	NA	-6.91	NA	-5.99
Arithmetic Mean:			1.88E-02	NA	2.50E-02	NA	1.00E-03	NA	1.00E-03	NA	1.00E-03	NA	1.00E-03	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	2.32E-01	NA	-1.88E-15	NA	7.52E-15	NA	7.52E-15	NA	7.52E-15	NA	7.52E-15	NA	-1.50E-14
[1]Variance (s^2):			6.85E-05	NA	3.44E-19	NA	-4.48E-22	NA	-4.48E-22	NA	-4.48E-22	NA	-4.48E-22	NA	2.69E-21	NA
[1]Standard deviation of LT data (s):			NA	4.82E-01	NA	#NUM!	NA	8.67E-08	NA	8.67E-08	NA	8.67E-08	NA	8.67E-08	NA	#NUM!
[1]Standard deviation (s):			0.01	NA	0.00	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.19	NA		NA		NA		NA		NA		NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			0.02	0.03	0.025	#NUM!	#NUM!	0.0010	#NUM!	0.0010	#NUM!	0.0010	#NUM!	0.0010	0.0025	#NUM!
Minimum value:			0.01	NA	0.025	NA	0.001	NA	0.001	NA	0.001	NA	0.001	NA	0.0025	NA
Maximum value:			0.032	NA	0	NA	0	NA	0	NA	0	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Benzo (k) fluoranthene (mg/kg)		Chrysene (mg/kg)		Dibenz (a,h) anthracene (mg/kg)		Fluoranthene (mg/kg)		Florene (mg/kg)		Ideno(1,2,3-cd) pyrene (mg/kg)	
GP-25	6/18/97	15	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-25	6/18/97	20	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-25	6/18/97	25	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-26	6/18/97	35	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-32	6/19/97	5	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
GP-34	6/20/97	5	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	26	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	46	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-3	6/18/97	51	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-5	7/13/97	16	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
HS-8	7/13/97	11	<0.002	-6.908	<0.005	-5.991	<0.005	-5.991	<0.005	-5.991	<0.02	-4.605	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11	11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10	10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-6.91	NA	-5.99	NA	-5.99	NA	-5.99	NA	-4.61	NA	-5.99
Arithmetic Mean:			1.00E-03	NA	2.50E-03	NA	2.50E-03	NA	2.50E-03	NA	1.00E-02	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	7.52E-15	NA	-1.50E-14	NA	-1.50E-14	NA	-1.50E-14	NA	-3.76E-15	NA	-1.50E-14
[1]Variance (s^2):			-4.48E-22	NA	2.69E-21	NA	2.69E-21	NA	2.69E-21	NA	4.30E-20	NA	2.69E-21	NA
[1] Standard deviation of LT data (s):			NA	8.67E-08	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!	NA	#NUM!
[1]Standard deviation (s):			#NUM!	NA	0.0000	NA	0.0000	NA	0.0000	NA	0.0000	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA		NA		NA		NA		NA		NA	
Student's t value ($t_{\alpha,1}$):			1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			#NUM!	0.0010	0.0025	#NUM!	0.0025	#NUM!	0.0025	#NUM!	0.0100	#NUM!	0.0025	#NUM!
Minimum value:			0.001	NA	0.0025	NA	0.0025	NA	0.0025	NA	0.01	NA	0.0025	NA
Maximum value:			0	NA	0	NA	0	NA	0	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-3
Analytical Results and Statistical Analysis of PAHs in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Sample Date	Depth (fbg)	Naphthalene (mg/kg)		Phenanthrene (mg/kg)		Pyrene (mg/kg)	
GP-25	6/18/97	15	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-25	6/18/97	20	<0.02	-4.605	0.006	-5.116	<0.005	-5.991
GP-25	6/18/97	25	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-26	6/18/97	35	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
GP-32	6/19/97	5	0.13	-2.040	<0.005	-5.991	<0.005	-5.991
GP-34	6/20/97	5	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	26	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	46	0.021	-3.863	<0.005	-5.991	<0.005	-5.991
HS-3	6/18/97	51	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-5	7/13/97	16	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
HS-8	7/13/97	11	<0.02	-4.605	<0.005	-5.991	<0.005	-5.991
Count including ND values (n):			11	11	11	11	11	11
Degrees of Freedom (n-1):			10	10	10	10	10	10
Arithmetic Mean of LT data:			NA	-4.30	NA	-5.91	NA	-5.99
Arithmetic Mean:			2.19E-02	NA	2.82E-03	NA	2.50E-03	NA
[1]Variance of LT data(s^2):			NA	5.58E-01	NA	6.33E-02	NA	-1.50E-14
[1]Variance (s^2):			1.18E-03	NA	1.01E-06	NA	2.69E-21	NA
[1]Standard deviation of LT data (s):			NA	7.47E-01	NA	2.52E-01	NA	#NUM!
[1]Standard deviation (s):			0.0343	NA	0.0010	NA	0.0000	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[2]H Statistic for LT data:			NA	2.621	NA	1.929	NA	
Student's t value ($t_{0.1}$):			1.81	NA	1.81	NA	1.81	NA
95% upper confidence level (UCL):			0.0407	0.0332	0.0034	0.0033	0.0025	#NUM!
Minimum value:			0.01	NA	0.0025	NA	0.0025	NA
Maximum value:			0.13	NA	0.006	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Assumes random sampling and/or systematic random sampling.
[2] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Arsenic (mg/kg)		Lead (mg/kg)		Antimony (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Cadmium (mg/kg)		Chromium, VI (mg/kg)		Chromium, total (mg/kg)	
HS-3-26	07/12/97	26	14	2.639	9.4	2.241	<10	1.609	680	6.522	<0.5	-1.386	0.59	-0.528	<0.5	-1.386	28	3.332
HS-3-46	07/12/97	46	2.1	0.742	<2	0.000	<10	1.609	45	3.807	<0.5	-1.386	<0.5	-1.386	<0.5	-1.386	9.8	2.282
HS-3-51	07/12/97	51	<2	0.000	2.7	0.993	<10	1.609	85	4.443	<0.5	-1.386	0.55	-0.598	<0.5	-1.386	16	2.773
HS-5-6.5	07/12/97	6.5	3.2	1.163	43	3.761	<10	1.609	130	4.868	<0.5	-1.386	1.1	0.095	<0.5	-1.386	34	3.526
HS-5-16	07/12/97	16	<2	0.000	5	1.609	<10	1.609	120	4.787	<0.5	-1.386	0.75	-0.288	<0.5	-1.386	22	3.091
HS-6-6.5	07/12/97	6.5	2.4	0.875	4.4	1.482	<10	1.609	110	4.700	<0.5	-1.386	0.69	-0.371	<0.5	-1.386	22	3.091
HS-8-11	07/12/97	11	4.5	1.504	4.9	1.589	<10	1.609	130	4.868	<0.5	-1.386	0.64	-0.446	<0.5	-1.386	22	3.091
JF-M1-S37-EW-8	11/02/00	8	4.31	1.461	6.1	1.808												
JF-M3-S34-WW-14	10/31/00	14	2.15	0.765	2.67	0.982												
JF-M3-S35-NW-13	10/31/00	13	4.93	1.595	4.85	1.579												
JF-M3-S36-SW-13	10/31/00	13	2.96	1.085	3.2	1.163												
JF-M8-S30-SW-10	10/30/00	10	2.35	0.854	7.75	2.048												
JF-M8-S31-EW-10	10/30/00	10	3.96	1.376	6.01	1.793												
JF-M8-S32-NW-10	10/30/00	10	2.47	0.904	15.1	2.715												
JF-M3-S33-EW-10	10/30/00	10	1.91	0.647	2.48	0.908												
JF-M8-S27-B-13	10/26/00	13	5.36	1.679	4.63	1.533												
JF-M8-S28-WW-10	10/26/00	10	6.23	1.829	5.5	1.705												
JF-SB49-S4-B-B13	10/26/00	13	2.65	0.975	2.52	0.924												
JF-SB49-S5B-SW10	10/26/00	10	5.57	1.717	6.15	1.816												
JF-M2-S16-B-10	10/25/00	10	4.15	1.423	4.95	1.599												
JF-M9-S17-WW-5	10/25/00	5	3.51	1.256	4.25	1.447												
JF-M9-S18-NW-5	10/25/00	5	2.56	0.940	3.94	1.371												
JF-M9-S20-SW-5	10/25/00	5	3.51	1.256	4.22	1.440												
JF-M9-S21-EW-5	10/25/00	5	3.52	1.258	4.1	1.411												
JF-M7-S22-EW-8	10/25/00	8	4.16	1.426	4.82	1.573												
JF-M7-S23-SW-8	10/25/00	8	4.02	1.391	4.64	1.535												
JF-M7-S24-B-13	10/25/00	13	2.78	1.022	2.81	1.033												
JF-M7-S25-WW-8	10/25/00	8	4.65	1.537	4.64	1.535												
JF-M7-S26-NW8	10/25/00	8	4.64	1.535	5.85	1.766												
JF-SB49-S1-SW-5	10/24/00	5	3.85	1.348	4.63	1.533												
JF-SB49-S2-NW-5	10/24/00	5	3.22	1.169	4.29	1.456												
JF-SB49-S3-B-6	10/24/00	5	4.51	1.506	4.32	1.463												
JF-SB49-S5-SW-5	10/24/00	5	3.61	1.284	4.06	1.401												
JF-SB49-S6-NW-5	10/24/00	5	4.07	1.404	5.12	1.633												
JF-SB49-S8-SW-5	10/24/00	5	3.56	1.270	4.36	1.472												
JF-SB49-S11-SW-5	10/24/00	5	4.44	1.491	4.31	1.461												
JF-SB49-S13-B-6	10/24/00	6	4.36	1.472	4.65	1.537												
JF-SB49-S14-SW-5	10/24/00	5	4.12	1.416	4.76	1.560												
JF-SB49-S15-NW-5	10/24/00	5	4.29	1.456	4.39	1.479												

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Arsenic (mg/kg)		Lead (mg/kg)		Antimony (mg/kg)		Barium (mg/kg)		Beryllium (mg/kg)		Cadmium (mg/kg)		Chromium, VI (mg/kg)		Chromium, total (mg/kg)	
Count including ND values (n):			39	39	39	39	7	7	7	7	7	7	7	7	7	7	7	7
Degrees of Freedom (n-1):			38	38	38	38	6	6	6	6	6	6	6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	1.25	NA	1.55	NA	1.61	NA	4.86	NA	-1.39	NA	-0.50	NA	-1.39	NA	3.03
Arithmetic Mean:			3.86	NA	5.81	NA	5	NA	185.71	NA	0.25	NA	0.65	NA	0.25	NA	21.97	NA
Sample Variance of LT data(s^2):			NA	0.21	NA	0.30	NA	5.8003E-16	NA	0.58	NA	2.9E-16	NA	0.17	NA	2.9E-16	NA	0.14
Sample Variance (s^2):			4.03	NA	41.20	NA	0	NA	41503	NA	0	NA	0.06	NA	0	NA	52.12	NA
Standard Deviation, LT data (s):			NA	0.46	NA	0.55	NA	0.00	NA	0.76	NA	0.00	NA	0.42	NA	0.00	NA	0.37
Standard deviation (s):			2.01	NA	6.42	NA	0	NA	203.72	NA	0	NA	0.24	NA	0	NA	7.22	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA	1.86	NA	1.77	NA		NA	3.05	NA		NA	2.32	NA		NA	2.23
Student's t value ($t_{0.1}$):			1.69	NA	1.69	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			4.40	4.43	7.54	6.39	5	5	335.34	445.53	0.25	0.25	0.83	0.98	0.25	0.25	27.27	31.08
Minimum value:			1.00	NA	1.00	NA	5	NA	45	NA	0.25	NA	0.250	NA	0.25	NA	9.8	NA
Maximum value:			14	NA	43	NA	0	NA	680	NA	0	NA	1.1	NA	0	NA	34	NA

Notes:
mg/kg = milligrams per kilogram
= not applicable
log transformed data
ed on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Cobalt (mg/kg)		Copper (mg/kg)		Mercury (mg/kg)		Molybdenum (mg/kg)		Nickel (mg/kg)		Selenium (mg/kg)		Silver (mg/kg)	
HS-3-26	07/12/97	26	19	2.944	38	3.638	0.064	-2.749	<1	-0.693	35	3.555	<2	0.000	<1	-0.693
HS-3-46	07/12/97	46	4.6	1.526	9.1	2.208	0.041	-3.194	<1	-0.693	9.1	2.208	<2	0.000	<1	-0.693
HS-3-51	07/12/97	51	10	2.303	17	2.833	0.066	-2.718	<1	-0.693	16	2.773	<2	0.000	<1	-0.693
HS-5-6.5	07/12/97	6.5	13	2.565	33	3.497	0.044	-3.124	3.1	1.131	27	3.296	<2	0.000	<1	-0.693
HS-5-16	07/12/97	16	11	2.398	22	3.091	0.067	-2.703	<1	-0.693	23	3.135	<2	0.000	<1	-0.693
HS-6-6.5	07/12/97	6.5	12	2.485	18	2.890	0.049	-3.016	<1	-0.693	20	2.996	<2	0.000	<1	-0.693
HS-8-11	07/12/97	11	12	2.485	20	2.996	0.04	-3.219	<1	-0.693	21	3.045	<2	0.000	<1	-0.693
JF-M1-S37-EW-8	11/02/00	8														
JF-M3-S34-WW-14	10/31/00	14														
JF-M3-S35-NW-13	10/31/00	13														
JF-M3-S36-SW-13	10/31/00	13														
JF-M8-S30-SW-10	10/30/00	10														
JF-M8-S31-EW-10	10/30/00	10														
JF-M8-S32-NW-10	10/30/00	10														
JF-M3-S33-EW-10	10/30/00	10														
JF-M8-S27-B-13	10/26/00	13														
JF-M8-S28-WW-10	10/26/00	10														
JF-SB49-S4-B-B13	10/26/00	13														
JF-SB49-S5B-SW10	10/26/00	10														
JF-M2-S16-B-10	10/25/00	10														
JF-M9-S17-WW-5	10/25/00	5														
JF-M9-S18-NW-5	10/25/00	5														
JF-M9-S20-SW-5	10/25/00	5														
JF-M9-S21-EW-5	10/25/00	5														
JF-M7-S22-EW-8	10/25/00	8														
JF-M7-S23-SW-8	10/25/00	8														
JF-M7-S24-B-13	10/25/00	13														
JF-M7-S25-WW-8	10/25/00	8														
JF-M7-S26-NW8	10/25/00	8														
JF-SB49-S1-SW-5	10/24/00	5														
JF-SB49-S2-NW-5	10/24/00	5														
JF-SB49-S3-B-6	10/24/00	5														
JF-SB49-S5-SW-5	10/24/00	5														
JF-SB49-S6-NW-5	10/24/00	5														
JF-SB49-S8-SW-5	10/24/00	5														
JF-SB49-S11-SW-5	10/24/00	5														
JF-SB49-S13-B-6	10/24/00	6														
JF-SB49-S14-SW-5	10/24/00	5														
JF-SB49-S15-NW-5	10/24/00	5														

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Thallium (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
Count including ND values (n):			7	7	7	7	7	7
Degrees of Freedom (n-1):			6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	1.61	NA	3.52	NA	3.88
Arithmetic Mean:			5	NA	36.43	NA	53.00	NA
Sample Variance of LT data(s^2):			NA	5.8E-16	NA	0.16	NA	0.19
Sample Variance (s^2):			0	NA	173.67	NA	408.57	NA
Standard Deviation, LT data (s):			NA	0.00	NA	0.40	NA	0.44
Standard deviation (s):			0	NA	13.18	NA	20.21	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA		NA	2.28	NA	2.36
Student's t value (t_{n-1}):			1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			5	5	46.11	53.01	67.85	81.49
Minimum value:			5.00	NA	15.00	NA	20.00	NA
Maximum value:			0	NA	63	NA	86	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Cobalt (mg/kg)		Copper (mg/kg)		Mercury (mg/kg)		Molybdenum (mg/kg)		Nickel (mg/kg)		Selenium (mg/kg)		Silver (mg/kg)	
Count including ND values (n):			7	7	7	7	7	7	7	7	7	7	7	7	7	7
Degrees of Freedom (n-1):			6	6	6	6	6	6	6	6	6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	2.39	NA	3.02	NA	-2.96	NA	-0.43	NA	3.00	NA	0	NA	-0.69
Arithmetic Mean:			11.66	NA	22.44	NA	0.05	NA	0.87	NA	21.59	NA	1	NA	0.5	NA
Sample Variance of LT data(s^2):			NA	0.16	NA	0.19	NA	0.05	NA	0.41	NA	0.16	NA	0	NA	7.25E-17
Sample Variance (s^2):			15.56	NA	83.86	NA	0.00	NA	0.83	NA	57.32	NA	0	NA	0	NA
Standard Deviation, LT data (s):			NA	0.40	NA	0.44	NA	0.21	NA	0.64	NA	0.40	NA	0.00	NA	0.00
Standard deviation (s):			3.94	NA	9.16	NA	0.01	NA	0.91	NA	7.57	NA	0	NA	0	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA	2.28	NA	2.36	NA	2.01	NA	2.77	NA	2.28	NA		NA	
Student's t value ($t_{0.1}$):			1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			14.55	17.06	29.17	34.29	0.06	0.06	1.54	1.64	27.15	31.43	1	1	0.5	0.5
Minimum value:			4.6	NA	9.10	NA	0.04	NA	0.50	NA	9.10	NA	1.00	NA	0.50	NA
Maximum value:			19	NA	38	NA	0.067	NA	3.1	NA	35	NA	0	NA	0	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Thallium (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
HS-3-26	07/12/97	26	<10	1.609	63	4.143	75	4.317
HS-3-46	07/12/97	46	<10	1.609	15	2.708	20	2.996
HS-3-51	07/12/97	51	<10	1.609	35	3.555	44	3.784
HS-5-6.5	07/12/97	6.5	<10	1.609	37	3.611	86	4.454
HS-5-16	07/12/97	16	<10	1.609	30	3.401	55	4.007
HS-6-6.5	07/12/97	6.5	<10	1.609	39	3.664	46	3.829
HS-8-11	07/12/97	11	<10	1.609	36	3.584	45	3.807
JF-M1-S37-EW-8	11/02/00	8						
JF-M3-S34-WW-14	10/31/00	14						
JF-M3-S35-NW-13	10/31/00	13						
JF-M3-S36-SW-13	10/31/00	13						
JF-M8-S30-SW-10	10/30/00	10						
JF-M8-S31-EW-10	10/30/00	10						
JF-M8-S32-NW-10	10/30/00	10						
JF-M3-S33-EW-10	10/30/00	10						
JF-M8-S27-B-13	10/26/00	13						
JF-M8-S28-WW-10	10/26/00	10						
JF-SB49-S4-B-B13	10/26/00	13						
JF-SB49-S5B-SW10	10/26/00	10						
JF-M2-S16-B-10	10/25/00	10						
JF-M9-S17-WW-5	10/25/00	5						
JF-M9-S18-NW-5	10/25/00	5						
JF-M9-S20-SW-5	10/25/00	5						
JF-M9-S21-EW-5	10/25/00	5						
JF-M7-S22-EW-8	10/25/00	8						
JF-M7-S23-SW-8	10/25/00	8						
JF-M7-S24-B-13	10/25/00	13						
JF-M7-S25-WW-8	10/25/00	8						
JF-M7-S26-NW8	10/25/00	8						
JF-SB49-S1-SW-5	10/24/00	5						
JF-SB49-S2-NW-5	10/24/00	5						
JF-SB49-S3-B-6	10/24/00	5						
JF-SB49-S5-SW-5	10/24/00	5						
JF-SB49-S6-NW-5	10/24/00	5						
JF-SB49-S8-SW-5	10/24/00	5						
JF-SB49-S11-SW-5	10/24/00	5						
JF-SB49-S13-B-6	10/24/00	6						
JF-SB49-S14-SW-5	10/24/00	5						
JF-SB49-S15-NW-5	10/24/00	5						

Table E-4
Analytical Results and Statistical Analysis of Metals in Soil
Jatk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Sample ID	Date	Depth	Thallium (mg/kg)		Vanadium (mg/kg)		Zinc (mg/kg)	
Count including ND values (n):			7	7	7	7	7	7
Degrees of Freedom (n-1):			6	6	6	6	6	6
Arithmetic Mean of LT data:			NA	1.61	NA	3.52	NA	3.88
Arithmetic Mean:			5	NA	36.43	NA	53.00	NA
Sample Variance of LT data(s^2):			NA	5.8E-16	NA	0.16	NA	0.19
Sample Variance (s^2):			0	NA	173.67	NA	408.57	NA
Standard Deviation, LT data (s):			NA	0.00	NA	0.40	NA	0.44
Standard deviation (s):			0	NA	13.18	NA	20.21	NA
Probability (two sided test):			0.1	0.1	0.1	0.1	0.1	0.1
[1]H Statistic for LT data:			NA		NA	2.28	NA	2.36
Student's t value ($t_{0.1}$):			1.94	NA	1.94	NA	1.94	NA
95% upper confidence level (UCL):			5	5	46.11	53.01	67.85	81.49
Minimum value:			5.00	NA	15.00	NA	20.00	NA
Maximum value:			0	NA	63	NA	86	NA

Notes:
mg/kg = milligrams per kilogram
NA = not applicable
LT = log transformed data
[1] Based on Gilbert, 1987

SESOIL MODELING OUTPUT - PCE

Summary Toxicity Criteria
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Carcinogen Classification	Oral CSF $(mg/kg\text{-}day)^{-1}$	CSF Oral Source	Oral RfD (mg/kg-day)	RfD Oral Source	CSF Inh. $(mg/kg\text{-}day)^{-1}$	CSF Inh. Source	Inh. Rfd (mg/kg-day)	Inh. RfD Source
VOCs									
Benzene	A	1.00E-01	CalEPA	1.70E-03	ECAO	1.00E-01	CalEPA	1.70E-03	ECAO
Bromodichloromethane	B2	1.30E-01	CalEPA	2.00E-02	IRIS	1.30E-01	CalEPA	2.00E-02	IRIS
Chlorobenzene	NC			2.00E-02	IRIS			1.70E-02	NCEA
2-Chlorotoluene	NC			2.00E-02	IRIS			2.00E-02	IRIS
cis 1,2-dichloroethylene	NC			1.00E-02	HEAST			1.00E-02	HEAST
1,2-Dibromo-3-chloropropane	B2	7.00E+00	CalEPA	5.70E-05	EXTR	7.00E+00	CalEPA	5.70E-05	IRIS
Ethylbenzene	NC			1.00E-01	IRIS			2.90E-01	IRIS
Isopropylbenzene[a]	NC								
n-Butylbenzene[a]	NC								
n-Propylbenzene[a]	NC								
sec-Butylbenzene[a]	NC								
tert-Butylbenzene[a]	NC								
p-Isopropyltoluene[b]	NC								
Styrene	C			2.00E-01	IRIS			2.90E-01	IRIS
Tetrachloroethene	C-B2	5.10E-02	CalEPA	1.00E-02	IRIS	2.10E-02	CalEPA	1.10E-01	NCEA
Toluene	NC			2.00E-01	IRIS			1.10E-01	IRIS
1,2,4-Trimethylbenzene	NC			5.00E-02	NCEA			1.70E-03	NCEA
1,3,5-Trimethylbenzene	NC			5.00E-02	NCEA			1.70E-03	NCEA
Vinyl Chloride	A	2.70E-01	CalEPA			2.70E-01	CalEPA		
Xylenes	NC			2.00E+00	IRIS			2.00E-01	IRIS
PAHs									
Acenaphthene	NC			6.00E-02	IRIS			6.00E-02	IRIS
Anthracene	NC			3.00E-01	IRIS			3.00E-01	IRIS
Benzo(a) Anthracene	B2	1.20E+00	CalEPA			3.90E-01	CalEPA		
Benzo(a) Pyrene	B2	1.20E+01	CalEPA			3.90E+00	CalEPA		
Benzo(b) Fluoranthene	B2	1.20E+00	CalEPA			3.90E-01	CalEPA		
Benzo(g,h,i) Perylene	NC			NC				NC	
Benzo(k) Fluoranthene	B2	1.20E+00	CalEPA			3.90E-01	CalEPA		
Chrysene	B2	1.20E-01	CalEPA			3.90E-02	CalEPA		
Fluoranthene	NC			4.00E-02	IRIS			4.00E-02	IRIS
Indeno(1,2,3-cd) Pyrene	B2	1.20E+00	CalEPA			3.90E-01	CalEPA		
Naphthalene	NC			4.00E-02	IRIS			4.00E-02	IRIS
Phenanthrene	NC			NA				NA	
Pyrene	NC			3.00E-02	IRIS			3.00E-02	IRIS
INORGANICS (Metals)									
Arsenic	A	1.50E+00	CalEPA	3.00E-04	IRIS	1.20E+01	CalEPA	3.00E-04	EXTR
Cadmium	B1	3.80E-01	CalEPA	5.00E-04	IRIS	1.50E+01	CalEPA	5.00E-04	EXTR
Chromium (III)	NC			1.00E+00	IRIS			1.00E+00	EXTR
Copper	NC			3.70E-02	HEAST			3.70E-02	EXTR
Lead	B2								

Notes: CSF = Cancer Slope Factor
RfD = Reference Dose
ECAO = USEPA Environmental Criteria and Assessment Office
NA = Not Available
NC = Not classified as to carcinogenicity
(a) = represents substituted benzene evaluated as ethylbenzene
(b) = evaluated as toluene

Table E-6
Summary of Exposure Parameters
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Exposure Parameter	Units	Inhalation of Dust	Inhalation of Vapors			Dermal Contact with Soil	Incidental Soil Ingestion
		Construction Worker	Construction Worker	Indoor Workers	Outdoor Workers	Construction Worker	Construction Worker
Inhalation Rate	m^3/hour	1.25	1.25	1	1		
Soil Ingestion Rate	mg/day						100
Exposed Skin Surface Area	cm^2					5000	
Soil-Skin Adherence Factor	mg/cm^2-day					0.2	
Exposure Interval	hour/day	12	12	10	10		
Exposure Frequency	days/year	250	250	250	250	250	250
Exposure Duration	years	0.5	0.5	25	25	0.5	0.5
Body Weight	kg	70	70	70	70	70	70
Averaging Time (carcinogens)	days	25550	25550	25550	25550	25550	25550
Averaging Time (non-carcinogens	days	182.5	182.5	9125	9125	182.5	182.5

Table E-7
Complete Data Set
Carcinogenic Risks from Inhalation of Vapors in Outdoor Air
Baseline Conditions
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Soil (mg/kg)	Outdoor Air Volatilization Factor (m3/kg)	Estimated Outdoor Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs						
Benzene	0.0126	7.46E+02	1.69E-05	4.74E-08	1.00E-01	**5E-09**
Bromodichloromethane	0.0047	3.60E+03	1.32E-06	3.68E-09	1.30E-01	**5E-10**
1,2-Dibromo-3-chloropropane	0.0000	7.72E+03	0.00E+00	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	9.76E+02	4.57E-03	1.28E-05	2.10E-02	**3E-07**
Vinyl Chloride	0.0100	6.69E+01	1.49E-04	4.16E-07	2.70E-01	**1E-07**

Notes:

$C_a = (C_s/VF_o)$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval): Analytes that were non-detect for all samples are expressed as a concentration of 0.0

VF_o = Outdoor air volatilization factor (m^3/kg)

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
Ca = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)
CSF = Cancer Slope Factor

Table E-8
Complete Data Set
Non-Carcinogenic Risks from Inhalation of Vapors
Baseline Conditions
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Soil (mg/kg)	Outdoor Air Volatilization Factor (m3/kg)	Estimated Outdoor Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs						
Benzene	0.0126	7.46E+02	1.69E-05	1.66E-06	1.70E-03	**9.7E-04**
Bromodichloromethane	0.0047	3.60E+03	1.32E-06	1.29E-07	2.00E-02	**6.4E-06**
Chlorobenzene	0.0012	2.26E+03	5.31E-07	5.20E-08	1.70E-02	**3.1E-06**
2-Chlorotoluene	N/A	1.95E+03	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	6.86E+02	8.05E-04	7.87E-05	1.00E-02	**7.9E-03**
1,2-Dibromo-3-chloropropane	N/A	7.72E+03	N/A	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	1.38E+03	1.03E-04	1.01E-05	2.90E-01	**3.5E-05**
Styrene	0.0043	5.57E+03	7.64E-07	7.47E-08	2.90E-01	**2.6E-07**
Tetrachloroethene	4.4599	9.76E+02	4.57E-03	4.47E-04	1.10E-01	**4.1E-03**
Toluene [(b)]	0.0091	1.13E+03	8.03E-06	7.85E-07	1.10E-01	**7.1E-06**
1,2,4-Trimethylbenzene	0.0386	7.64E+03	5.05E-06	4.94E-07	1.70E-03	**2.9E-04**
1,3,5-Trimethylbenzene	0.0056	3.01E+03	1.86E-06	1.82E-07	1.70E-03	**1.1E-04**
Xylenes	0.0211	1.45E+03	1.46E-05	1.42E-06	2.00E-01	**7.1E-06**

Notes:

$C_a = (C_x/VF_w)$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_w = Outdoor air volatilization factor (m^3/l)

Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

RfD = Reference Dose
(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.
(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-9
Calculation of Volatilization Factors for VOCs to Outdoor Air from Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_o = Q/C \times (3.14 * a * T)^{0.5}/(2 * D_e * P_a * K_{as}) \times 1E\text{-}4\ m^2/cm^2$$

$$a = (D_e * P_a)/[P_a + (PD)(1-P_a)/K_{as}]$$

$$K_{as} = (H/K_{oc} * foc)$$

$$D_e = D_a\ (P_a^{\ 3.33}/P_t^2)$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
Q/C = Inverse of the mean conc. at center of source	$(g/m^2\text{-}s)/(kg/m^3)$	43.585
a = Diffusivity of vapor through soil	cm^2/s	see below
D_e = Effective Diffusivity of chemical	cm^2/s	see below
D_a = Chemical-specific diffusivity in air	cm^2/s	see below
K_{as} = Soil air partition coefficient	g soil/cm^3 air	see below
H = Henry's law constant	dimensionless	see below
f_{oc} = Fraction organic carbon content of soil	unitless	0.001
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
PD = Particle density	g/cm^3	2.65
T= Exposure interval	seconds	7.90E+08
VF_o = Outdoor Air Volatilization Factor	m^3/kg	see below

Chemical	D_a	D_e	H	K_{oc}	K_{as}	a	VF_o
Benzene	0.088	0.00696	0.22755	62	3.67016129	0.00245343	7.46E+02
Bromodichloromethane	0.0298	0.00236	0.0656	100	0.656	0.00020896	3.60E+03
Chlorobenzene	0.073	0.00578	0.1517	224	0.677232143	0.00052694	2.26E+03
2-Chlorotoluene	0.072	0.0057	0.1435	160	0.896875	0.0006685	1.95E+03
cis 1,2-dichloroethylene	0.0736	0.00582	0.16728	35.5	4.712112676	0.00239496	6.86E+02
1,2-Dibromo-3-chloropropane	0.0212	0.00168	0.00603	28.3	0.212968198	5.1333E-05	7.72E+03
Ethylbenzene	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
Isopropylbenzene[a]	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
n-Butylbenzene[a]	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
n-Propylbenzene[a]	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
sec-Butylbenzene[a]	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
tert-Butylbenzene[a]	0.075	0.00594	0.3231	204	1.583823529	0.00112832	1.38E+03
p-Isopropyltoluene[b]	0.087	0.00688	0.27224	140	1.944571429	0.00154028	1.13E+03
Styrene	0.071	0.00562	0.11275	912	0.123629386	0.0001011	5.57E+03
Tetrachloroethene	0.072	0.0057	0.7544	265	2.846792453	0.00169065	9.76E+02
Toluene	0.087	0.00688	0.27224	140	1.944571429	0.00154028	1.13E+03
1,2,4-Trimethylbenzene	0.075	0.00594	0.2337	3720	0.062822581	5.4751E-05	7.64E+03
1,3,5-Trimethylbenzene	0.075	0.00594	0.31611	819	0.385970696	0.00032114	3.01E+03
Vinyl Chloride	0.106	0.00839	1.107	18.6	59.51612903	0.00753407	6.69E+01
Xylenes	0.07	0.00554	0.30094	196	1.535408163	0.00102688	1.45E+03

Equation from:

EPA, 1995. EPA Region IX Preliminary Remediation Goals for Soil.

Table E-10
Calculation of Volatilization Factors for VOCs to Indoor Air from Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_i = VR/(A * AF) \times (3.14 * \alpha * T)^{0.5}/(2 * D_e * P_a * K_{as} * 1E\text{-}3\ kg/g)$$

$$\alpha = (D_e * P_a)/[P_a + (PD)(1-P_a)/K_{as}]$$

$$K_{as} = H/(K_{oc} * foc)$$

$$D_e = D_a\ (P_a^{\ 3.33}/P_t^{\ 2})$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
A = Area of proposed building foundation	cm^2	1.84E+08
AF = Building Attenuation Factor	unitless	0.01
VR = Building Ventilation Rate	m^3/s	31.03
α = Diffusivity of vapor through soil	cm^2/s	see below
D_e = Effective Diffusivity of chemical	cm^2/s	see below
D_a = Chemical-specific diffusivity in air	cm^2/s	see below
K_{as} = Soil air partition coefficient	g soil/cm^3 air	see below
H = Henry's law constant	dimensionless	see below
K_{oc} = Organic carbon partition coefficient	cm^3/g	see below
f_{oc} = Fraction organic carbon content of soil	unitless	0.001
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
PD = Particle density	g/cm^3	2.65
T= Exposure interval	seconds	7.90E+08
VF_i = Indoor Air Volatilization Factor	m^3/kg	see below

Chemical	D_a	D_e	H	K_{oc}	K_{as}	α	VF_i
Benzene	0.088	0.006964	0.22755	62	3.67016129	0.00245343	2.89E+03
Bromodichloromethane	0.0298	0.002358	0.0656	100	0.656	0.00020896	1.39E+04
Chlorobenzene	0.073	0.005777	0.1517	224	0.67723214	0.00052694	8.75E+03
2-Chlorotoluene	0.072	0.005698	0.1435	160	0.896875	0.0006685	7.54E+03
cis 1,2-dichloroethylene	0.0736	0.005824	0.16728	35.5	4.71211268	0.00239496	2.66E+03
1,2-Dibromo-3-chloropropane	0.0212	0.001678	0.00603	28.3	0.2129682	5.1333E-05	2.99E+04
Ethylbenzene	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
Isopropylbenzene[a]	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
n-Butylbenzene[a]	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
n-Propylbenzene[a]	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
sec-Butylbenzene[a]	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
tert-Butylbenzene[a]	0.075	0.005935	0.3231	204	1.58382353	0.00112832	5.33E+03
p-Isopropyltoluene[b]	0.087	0.006885	0.27224	140	1.94457143	0.00154028	4.37E+03
Styrene	0.071	0.005619	0.11275	912	0.12362939	0.0001011	2.16E+04
Tetrachloroethene	0.072	0.005698	0.7544	265	2.84679245	0.00169065	3.78E+03

Table E-10
Calculation of Volatilization Factors for VOCs to Indoor Air from Soil
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_i = VR/(A * AF) \times (3.14 * \alpha * T)^{0.5}/(2 * D_e * P_a * K_{as} * 1E\text{-}3\ kg/g)$$

$$\alpha = (D_e * P_a)/[P_a + (PD)(1-P_a)/K_{as}]$$

$$K_{as} = H/(K_{oc} * foc)$$

$$D_e = D_a\ (P_a^{\ 3.33}/P_t^{\ 2})$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
A = Area of proposed building foundation	cm^2	1.84E+08
AF = Building Attenuation Factor	unitless	0.01
VR = Building Ventilation Rate	m^3/s	31.03
α = Diffusivity of vapor through soil	cm^2/s	see below
D_e = Effective Diffusivity of chemical	cm^2/s	see below
D_a = Chemical-specific diffusivity in air	cm^2/s	see below
K_{as} = Soil air partition coefficient	g soil/cm^3 air	see below
H = Henry's law constant	dimensionless	see below
K_{oc} = Organic carbon partition coefficient	cm^3/g	see below
f_{oc} = Fraction organic carbon content of soil	unitless	0.001
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
PD = Particle density	g/cm^3	2.65
T= Exposure interval	seconds	7.90E+08
VF_i = Indoor Air Volatilization Factor	m^3/kg	see below

Chemical	D_a	D_e	H	K_{oc}	K_{as}	α	VF_i
Toluene	0.087	0.006885	0.27224	140	1.94457143	0.00154028	4.37E+03
1,2,4-Trimethylbenzene	0.075	0.005935	0.2337	3720	0.06282258	5.4751E-05	2.96E+04
1,3,5-Trimethylbenzene	0.075	0.005935	0.31611	819	0.3859707	0.00032114	1.17E+04
Vinyl Chloride	0.106	0.008388	1.107	18.6	59.516129	0.00753407	2.59E+02
Xylenes	0.07	0.005539	0.30094	196	1.53540816	0.00102688	5.62E+03

Equation modified from:

EPA, 1991. Risk Assessment Guidance for Superfund: Volume I - Human Health evaluation manual (Part B, Development of Risk-Based Preliminary Remediation Goals Publication 9285.7-01B. December

Table E-11
Calculation of Volatilization Factors for VOCs to Outdoor Air from Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_{ow} = Q/C \times ((L/(H * 1000\ l/m^3 * D_e))$$
$$D_e = D_a\ (P_a^{\ 3.33}/P_t^2)$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
Q/C = Inverse of the mean conc. at center of source	m/hour	156.9
D_e = Effective Diffusivity of chemical	m^2/hour	see below
D_a = Chemical-specific diffusivity in air	m^2/hour	see below
H = Henry's law constant	l H_2O/L air	see below
L = Depth to contaminated groundwater	m	19.812
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
VF_{ow} = Outdoor Air Volatilization Factor (from groundwater)	m^3/l	see below

Chemical	D_a	D_e	H	VF_{ow}
Benzene	0.03168	0.002507	0.22755	5.45E+03
Bromodichloromethane	0.010728	0.000849	0.0656	5.58E+04
Chlorobenzene	0.02628	0.00208	0.1517	9.85E+03
2-Chlorotoluene	0.02592	0.002051	0.1435	1.06E+04
cis 1,2-dichloroethylene	0.026496	0.002097	0.16728	8.86E+03
1,2-Dibromo-3-chloropropane	0.007632	0.000604	0.006027	8.54E+05
Ethylbenzene	0.027	0.002137	0.3231	4.50E+03
Isopropylbenzene[a]	0.027	0.002137	0.3231	4.50E+03
n-Butylbenzene[a]	0.027	0.002137	0.3231	4.50E+03
n-Propylbenzene[a]	0.027	0.002137	0.3231	4.50E+03
sec-Butylbenzene[a]	0.027	0.002137	0.3231	4.50E+03
tert-Butylbenzene[a]	0.027	0.002137	0.3231	4.50E+03
p-Isopropyltoluene[b]	0.03132	0.002478	0.27224	4.61E+03
Styrene	0.02556	0.002023	0.11275	1.36E+04
Tetrachloroethene	0.02592	0.002051	0.7544	2.01E+03
Toluene	0.03132	0.002478	0.27224	4.61E+03
1,2,4-Trimethylbenzene	0.027	0.002137	0.2337	6.23E+03
1,3,5-Trimethylbenzene	0.027	0.002137	0.31611	4.60E+03
Vinyl Chloride	0.03816	0.00302	1.107	9.30E+02
Xylenes	0.0252	0.001994	0.30094	5.18E+03

Equation Modified from:

EPA, 1991. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals. Publication 9285.7-01B. December.

Fick's First Law.

EPA, 1995. EPA Region IX Preliminary Remediation Goals for Soil.

Table E-12
Calculation of Volatilization Factors for VOCs to Indoor Air from Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_{iw} = VR/(A * AF) \times ((L/(H * 1000\ l/m^3 * D_e))$$
$$D_e = D_a\ (P_a^{\ 3.33}/P_t^2)$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
A = Area of proposed building foundation	m^2	1.84E+04
AF = Building Attenuation Factor	unitless	0.01
VR = Building Ventilation Rate	m^3/hour	111700
D_e = Effective Diffusivity of chemical	m^2/hour	see below
D_a = Chemical-specific diffusivity in air	m^2/hour	see below
H = Henry's law constant	l H_20/L air	see below
L = Depth to contaminated groundwater	m	19.812
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
VF_{iw} = Indoor Air Volatilization Factor (from groundwater)	m^3/l	see below

Chemical	D_a	D_e	H	VF_{iw}
Benzene	0.03168	0.002506959	0.22755	2.11E+04
Bromodichloromethane	0.010728	0.000848947	0.0656	2.16E+05
Chlorobenzene	0.02628	0.002079636	0.1517	3.82E+04
2-Chlorotoluene	0.02592	0.002051148	0.1435	4.09E+04
cis 1,2-dichloroethylene	0.026496	0.002096729	0.16728	3.43E+04
1,2-Dibromo-3-chloropropane	0.007632	0.000603949	0.006027	3.31E+06
Ethylbenzene	0.027	0.002136613	0.3231	1.74E+04
Isopropylbenzene[a]	0.027	0.002136613	0.3231	1.74E+04
n-Butylbenzene[a]	0.027	0.002136613	0.3231	1.74E+04
n-Propylbenzene[a]	0.027	0.002136613	0.3231	1.74E+04
sec-Butylbenzene[a]	0.027	0.002136613	0.3231	1.74E+04
tert-Butylbenzene[a]	0.027	0.002136613	0.3231	1.74E+04
p-Isopropyltoluene[b]	0.03132	0.002478471	0.27224	1.78E+04
Styrene	0.02556	0.002022660	0.11275	5.28E+04
Tetrachloroethene	0.02592	0.002051148	0.7544	7.78E+03
Toluene	0.03132	0.002478471	0.27224	1.78E+04
1,2,4-Trimethylbenzene	0.027	0.002136613	0.2337	2.41E+04
1,3,5-Trimethylbenzene	0.027	0.002136613	0.31611	1.78E+04
Vinyl Chloride	0.03816	0.003019746	1.107	3.60E+03
Xylenes	0.0252	0.001994172	0.30094	2.01E+04

Table E-12
Calculation of Volatilization Factors for VOCs to Indoor Air from Groundwater
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATIONS

$$VF_{iw} = VR/(A * AF) \times ((L/(H * 1000\ l/m^3 * D_e))$$
$$D_e = D_a\ (P_a^{\ 3.33}/P_t^2)$$

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
A = Area of proposed building foundation	m^2	1.84E+04
AF = Building Attenuation Factor	unitless	0.01
VR = Building Ventilation Rate	m^3/hour	111700
D_e = Effective Diffusivity of chemical	m^2/hour	see below
D_a = Chemical-specific diffusivity in air	m^2/hour	see below
H = Henry's law constant	l H_2O/L air	see below
L = Depth to contaminated groundwater	m	19.812
P_a = Air-Filled Soil Porosity	unitless	0.282
P_t = Total Soil Porosity	unitless	0.432
VF_{iw} = Indoor Air Volatilization Factor (from groundwater)	m^3/l	see below

Equation Modified from:

EPA, 1991. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals. Publication 9285.7-01B. December.

Fick's First Law.

Table E-13
Complete Data Set
Carcinogenic Risks from Inhalation of Vapors from Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

hemical	Soil Concentration (mg/kg)	Outdoor Air Volatilization Factor (m3/kg)	Estimated Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
OCs						
enzene	0.0126	7.46E+02	1.69E-05	1.78E-08	1.00E-01	**2E-09**
romodichloromethane	0.0047	3.60E+03	1.32E-06	1.38E-09	1.30E-01	**2E-10**
1,2-Dibromo-3-chloropropane	0.0000	7.72E+03	0.00E+00	0.00E+00	7.00E+00	**0E+00**
etrachloroethene	4.4599	9.76E+02	4.57E-03	4.79E-06	2.10E-02	**1E-07**
inyl Chloride	0.0100	6.69E+01	1.49E-04	1.56E-07	2.70E-01	**4E-08**

Notes:

$C_a = C_s/VF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_o = Outdoor air volatilization factor

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-14
Complete Data Set
Non-carcinogenic Risks from Inhalation of Vapors from Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Volatilization Factor (m^3/kg)	Estimated Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs						
Benzene	0.0126	7.46E+02	1.69E-05	2.49E-06	1.70E-03	**1.5E-03**
Bromodichloromethane	0.0047	3.60E+03	1.32E-06	1.93E-07	2.00E-02	**9.7E-06**
Chlorobenzene	0.0012	2.26E+03	5.31E-07	7.80E-08	1.70E-02	**4.6E-06**
2-Chlorotoluene	0.0000	1.95E+03	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	6.86E+02	8.05E-04	1.18E-04	1.00E-02	**1.2E-02**
1,2-Dibromo-3-chloropropane	0.0000	7.72E+03	N/A	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	1.38E+03	1.03E-04	1.52E-05	2.90E-01	**5.2E-05**
Styrene	0.0043	5.57E+03	7.64E-07	1.12E-07	2.90E-01	**3.9E-07**
Tetrachloroethene	4.4599	9.76E+02	4.57E-03	6.71E-04	1.10E-01	**6.1E-03**
Toluene [(b)]	0.0091	1.13E+03	8.03E-06	1.18E-06	1.10E-01	**1.1E-05**
1,2,4-Trimethylbenzene	0.0386	7.64E+03	5.05E-06	7.41E-07	1.70E-03	**4.4E-04**
1,3,5-Trimethylbenzene	0.0056	3.01E+03	1.86E-06	2.73E-07	1.70E-03	**1.6E-04**
lenes	0.0211	1.45E+03	1.46E-05	2.14E-06	2.00E-01	**1.1E-05**

Notes:

$C_a = C_s/VF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_o = Outdoor air volatilization factor

verage Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW

C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)
fD = Reference Dose
) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.
) = Soil concentration includes tolulene plus 0.005 mg/kg for p-Isoporpyltoluene concentrations.

Table E-15
Complete Data Set
Carcinogenic Risks from Inhalation of Vapors from Groundwater
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Groundwater Concentration (mg/l)	Outdoor Air Volatilization Factor (m3/l)	Estimated Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs						
Benzene	0.003	5.45E+03	5.70E-07	5.98E-10	1.00E-01	**6E-11**
Bromodichloromethane	N/A	5.58E+04	N/A	N/A	1.30E-01	N/A
1,2-Dibromo-3-chloropropan	N/A	8.54E+05	N/A	N/A	7.00E+00	N/A
Tetrachloroethene	0.454	2.01E+03	2.26E-04	2.37E-07	2.10E-02	**5E-09**
Vinyl Chloride	N/A	9.30E+02	N/A	N/A	2.70E-01	N/A

Notes:

$C_a = C_s/VF_o$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_w = Concentration of chemical in groundwater (mg/l): From the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_o = Outdoor air volatilization factor

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-16
Complete Data Set
Non-carcinogenic Risks from Inhalation of Vapors from Groundwater
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Groundwater Concentration (mg/l)	Volatilization Factor (m^3/l)	Estimated Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs						
Benzene	0.003	5.45E+03	5.70E-07	8.37E-08	1.70E-03	**4.9E-05**
Bromodichloromethane	N/A	5.58E+04	N/A	N/A	2.00E-02	N/A
Chlorobenzene	N/A	9.85E+03	N/A	N/A	1.70E-02	N/A
2-Chlorotoluene	N/A	1.06E+04	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.077	8.86E+03	8.68E-06	1.27E-06	1.00E-02	**1.3E-04**
1,2-Dibromo-3-chloropropane	N/A	8.54E+05	N/A	N/A	5.70E-05	N/A
Ethylbenzene	0.004	4.50E+03	8.46E-07	1.24E-07	2.90E-01	**4.3E-07**
Styrene	N/A	1.36E+04	N/A	N/A	2.90E-01	N/A
Tetrachloroethene	0.454	2.01E+03	2.26E-04	3.32E-05	1.10E-01	**3.0E-04**
Toluene	0.004	4.61E+03	9.36E-07	1.37E-07	1.10E-01	**1.2E-06**
1,2,4-Trimethylbenzene	N/A	6.23E+03	N/A	N/A	1.70E-03	N/A
1,3,5-Trimethylbenzene	N/A	4.60E+03	N/A	N/A	1.70E-03	N/A
Xylenes	0.014	5.18E+03	2.64E-06	3.87E-07	2.00E-01	**1.9E-06**

Notes:

$C_a = C_w/VF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_w = Concentration of chemical in groundwater (mg/l): From the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_{ow} = Outdoor air volatilization factor

Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

RfD = Reference Dose

Table E-17
Complete Data Set
Reasonable Maximum Exposure
Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Soil
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Soil (mg/kg)	Attenuation Factor (-)	Outdoor Air Volatilization Factor (m3/kg)	Estimated Outdoor Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs							
Benzene	0.0126	0.01	7.46E+02	1.69E-07	5.92E-09	1.00E-01	**6E-10**
Bromodichloromethane	0.0047	0.01	3.60E+03	1.32E-08	4.60E-10	1.30E-01	**6E-11**
1,2-Dibromo-3-chloropropane	0.0000	0.01	7.72E+03	0.00E+00	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	0.01	9.76E+02	4.57E-05	1.60E-06	2.10E-02	**3E-08**
Vinyl Chloride	0.0100	0.01	6.69E+01	1.49E-06	5.20E-08	2.70E-01	**1E-08**

Notes:

$C_a = (C_s/VF_o) \times AF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_o = Outdoor air volatilization factor (m^3/kg)
AF = Attenuation factor of 0.01 to account for decreased permeability of asphalt and concrete paving (unitless)

LADD = Lifetime Average Daily Dose = $C_a \times IR \times ET \times EF \times ED \times 1/AT \times 1/BW$

C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-18
Complete Data Set
Reasonable Maximum Exposure
Non-Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Soil
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Conc. (mg/kg)	Attenuation Factor (-)	Outdoor Air Volatilization Factor (m^3/kg)	Estimated Outdoor Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs							
Benzene	0.0126	0.01	7.46E+02	1.69E-07	1.66E-08	1.70E-03	**9.7E-06**
Bromodichloromethane	0.0047	0.01	3.60E+03	1.32E-08	1.29E-09	2.00E-02	**6.4E-08**
Chlorobenzene	0.0012	0.01	2.26E+03	5.31E-09	5.20E-10	1.70E-02	**3.1E-08**
2-Chlorotoluene	0.0000	0.01	1.95E+03	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	0.01	6.86E+02	8.05E-06	7.87E-07	1.00E-02	**7.9E-05**
1,2-Dibromo-3-chloropropane	0.0000	0.01	7.72E+03	N/A	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	0.01	1.38E+03	1.03E-06	1.01E-07	2.90E-01	**3.5E-07**
Styrene	0.0043	0.01	5.57E+03	7.64E-09	7.47E-10	2.90E-01	**2.6E-09**
Tetrachloroethene	4.4599	0.01	9.76E+02	4.57E-05	4.47E-06	1.10E-01	**4.1E-05**
Toluene [(b)]	0.0091	0.01	1.13E+03	8.03E-08	7.85E-09	1.10E-01	**7.1E-08**
1,2,4-Trimethylbenzene	0.0386	0.01	7.64E+03	5.05E-08	4.94E-09	1.70E-03	**2.9E-06**
1,3,5-Trimethylbenzene	0.0056	0.01	3.01E+03	1.86E-08	1.82E-09	1.70E-03	**1.1E-06**
Xylenes	0.0211	0.01	1.45E+03	1.46E-07	1.42E-08	2.00E-01	**7.1E-08**

Notes:

$C_a = (C_s/VF_s) \times AF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_s = Outdoor air volatilization factor (m^3/kg)
AF = Attenuation factor of 0.01 to account for decreased permeability of asphalt and concrete paving (unitless)

Average Daily Dose = $C_a \times IR \times ET \times EF \times ED \times 1/AT \times 1/BW$

C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

RfD = Reference Dose

(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.
(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-19
Complete Data Set
Reasonable Maximum Exposure
Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Groundwater
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Groundwater Concentration (mg/l)	Attenuation Factor (-)	Outdoor Air Volatilization Factor (m3/l)	Estimated Outdoor Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs							
Benzene	0.003	0.01	5.45E+03	5.70E-09	1.99E-10	1.00E-01	**2E-11**
Bromodichloromethane	N/A	0.01	5.58E+04	N/A	N/A	1.30E-01	N/A
1,2-Dibromo-3-chloropropane	N/A	0.01	8.54E+05	N/A	N/A	7.00E+00	N/A
Tetrachloroethene	0.454	0.01	2.01E+03	2.26E-06	7.90E-08	2.10E-02	**2E-09**
Vinyl Chloride	N/A	0.01	9.30E+02	N/A	N/A	2.70E-01	N/A

Notes:

$C_a = (C_w/VF_{ow}) \times AF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_w = Concentration of chemical in groundwater (mg/l): From the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_{ow} = Outdoor air volatilization factor (m^3/l)
AF = Attenuation factor of 0.01 to account for decreased permeability of asphalt and concrete paving (unitless)

LADD = Lifetime Average Daily Dose = $C_a \times IR \times ET \times EF \times ED \times 1/AT \times 1/BW$

C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-20
Complete Data Set
Reasonable Maximum Exposure
Non-Carcinogenic Risks from Inhalation of Vapors in Outdoor Air from Groundwater
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Groundwater Concentration (mg/l)	Attenuation Factor (-)	Outdoor Air Volatilization Factor (m^3/l)	Estimated Outdoor Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs							
Benzene	0.003	0.01	5.45E+03	5.70E-09	5.58E-10	1.70E-03	**3.3E-07**
Bromodichloromethane	N/A	0.01	5.58E+04	N/A	N/A	2.00E-02	N/A
Chlorobenzene	N/A	0.01	9.85E+03	N/A	N/A	1.70E-02	N/A
2-Chlorotoluene	N/A	0.01	1.06E+04	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.077	0.01	8.86E+03	8.68E-08	8.50E-09	1.00E-02	**8.5E-07**
1,2-Dibromo-3-chloropropane	N/A	0.01	8.54E+05	N/A	N/A	5.70E-05	N/A
Ethylbenzene	0.004	0.01	4.50E+03	8.46E-09	8.28E-10	2.90E-01	**2.9E-09**
Styrene	N/A	0.01	1.36E+04	N/A	N/A	2.90E-01	N/A
Tetrachloroethene	0.454	0.01	2.01E+03	2.26E-06	2.21E-07	1.10E-01	**2.0E-06**
Toluene	0.004	0.01	4.61E+03	9.36E-09	9.16E-10	1.10E-01	**8.3E-09**
1,2,4-Trimethylbenzene	N/A	0.01	6.23E+03	N/A	N/A	1.70E-03	N/A
1,3,5-Trimethylbenzene	N/A	0.01	4.60E+03	N/A	N/A	1.70E-03	N/A
Xylenes	0.014	0.01	5.18E+03	2.64E-08	2.58E-09	2.00E-01	**1.3E-08**

Notes:

$C_a = (C_x/VF_w) \times AF$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_w = Concentration of chemical in groundwater (mg/l): From the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_w = Outdoor air volatilization factor (m^3/l)
AF = Attenuation factor of 0.01 to account for decreased permeability of asphalt and concrete paving (unitless)

Average Daily Dose = $C_a \times IR \times ET \times EF \times ED \times 1/AT \times 1/BW$

C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

RfD = Reference Dose

Table E-21
Complete Data Set
Reasonable Maximum Exposure
Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Soil
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Soil (mg/kg)	Indoor Air Volatilization Factor (m3/kg)	Estimated Indoor Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs						
Benzene	0.0126	2.89E+03	4.37E-06	1.53E-07	1.00E-01	**2E-08**
Bromodichloromethane	0.0047	1.39E+04	3.40E-07	1.19E-08	1.30E-01	**2E-09**
1,2-Dibromo-3-chloropropane	0.0000	2.99E+04	0.00E+00	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	3.78E+03	1.18E-03	4.12E-05	2.10E-02	**9E-07**
Vinyl Chloride	0.0100	2.59E+02	3.84E-05	1.34E-06	2.70E-01	**4E-07**

Notes:

$C_a = C_s/VF_i$

C_a = Estimated concentration of chemical in air (mg/m^3)

C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

VF_i = Indoor air volatilization factor (m^3/kg)

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW

C_a = Chemical concentration in air (mg/m^3)

IR = Inhalation rate (m^3/hour)

ET = Exposure time (hours/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-22
Complete Data Set
Reasonable Maximum Exposure
Non-Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Soil
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Soil (mg/kg)	Indoor Air Volatilization Factor (m^3/kg)	Estimated Indoor Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs						
Benzene	0.0126	2.89E+03	4.37E-06	4.28E-07	1.70E-03	**2.5E-04**
Bromodichloromethane	0.0047	1.39E+04	3.40E-07	3.33E-08	2.00E-02	**1.7E-06**
Chlorobenzene	0.0012	8.75E+03	1.37E-07	1.34E-08	1.70E-02	**7.9E-07**
2-Chlorotoluene	0.0000	7.54E+03	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	2.66E+03	2.08E-04	2.03E-05	1.00E-02	**2.0E-03**
1,2-Dibromo-3-chloropropane	0.0000	2.99E+04	N/A	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	5.33E+03	2.67E-05	2.61E-06	2.90E-01	**9.0E-06**
Styrene	0.0043	2.16E+04	1.97E-07	1.93E-08	2.90E-01	**6.7E-08**
etrachloroethene	4.4599	3.78E+03	1.18E-03	1.15E-04	1.10E-01	**1.0E-03**
oluene [(b)]	0.0091	4.37E+03	2.07E-06	2.03E-07	1.10E-01	**1.8E-06**
2,4-Trimethylbenzene	0.0386	2.96E+04	1.30E-06	1.28E-07	1.70E-03	**7.5E-05**
,3,5-Trimethylbenzene	0.0056	1.17E+04	4.81E-07	4.71E-08	1.70E-03	**2.8E-05**
enes	0.0211	5.62E+03	3.76E-06	3.68E-07	2.00E-01	**1.8E-06**

Notes:

$C_a = C_s/VF_i$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_i = Indoor air volatilization factor (m^3/kg)

Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)
RfD = Reference Dose
(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.
(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-23
Complete Data Set
Reasonable Maximum Exposure
Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Groundwater
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Concentration in Groundwater (mg/l)	Indoor Air Volatilization Factor (m3/l)	Estimated Indoor Air Concentration (mg/m3)	LADD (mg/kg-day)	Inhalation CSF (mg/kg-day)-1	Risk
VOCs						
Benzene	0.003	2.11E+04	1.47E-07	5.15E-09	1.00E-01	**5E-10**
Bromodichloromethane	N/A	2.16E+05	N/A	N/A	1.30E-01	N/A
1,2-Dibromo-3-chloropropane	N/A	3.31E+06	N/A	N/A	7.00E+00	N/A
Tetrachloroethene	0.454	7.78E+03	5.84E-05	2.04E-06	2.10E-02	**4E-08**
Vinyl Chloride	N/A	3.60E+03	N/A	N/A	2.70E-01	N/A

Notes:

$C_a = C_s/VF_{iw}$

C_a = Estimated concentration of chemical in air (mg/m^3)
C_w = Concentration of chemical in groundwater (mg/l) from the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0.0
VF_{iw} = Indoor air volatilization factor from groundwater (m^3/l)

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW
C_a = Chemical concentration in air (mg/m^3)
IR = Inhalation rate (m^3/hour)
ET = Exposure time (hours/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-24
Complete Data Set
Reasonable Maximum Exposure
Non-Carcinogenic Risks from Inhalation of Vapors in Indoor Air from Groundwater
Potential Future Employees
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

hemical	Concentration in Groundwater (mg/l)	Indoor Air Volatilization Factor (m^3/l)	Estimated Indoor Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
OCs						
enzene	0.003	2.11E+04	1.47E-07	1.44E-08	1.70E-03	**8.5E-06**
romodichloromethane	N/A	2.16E+05	N/A	N/A	2.00E-02	N/A
hlorobenzene	N/A	3.82E+04	N/A	N/A	1.70E-02	N/A
-Chlorotoluene	N/A	4.09E+04	N/A	N/A	2.00E-02	N/A
s 1,2-Dichloroethylene	0.077	3.43E+04	2.24E-06	2.19E-07	1.00E-02	**2.2E-05**
2-Dibromo-3-chloropropane	N/A	3.31E+06	N/A	N/A	5.70E-05	N/A
thylbenzene	0.004	1.74E+04	2.18E-07	2.14E-08	2.90E-01	**7.4E-08**
tyrene	N/A	5.28E+04	N/A	N/A	2.90E-01	N/A
etrachloroethene	0.454	7.78E+03	5.84E-05	5.71E-06	1.10E-01	**5.2E-05**
oluene	0.004	1.78E+04	2.42E-07	2.36E-08	1.10E-01	**2.1E-07**
4-Trimethylbenzene	N/A	2.41E+04	N/A	N/A	1.70E-03	N/A
3,5-Trimethylbenzene	N/A	1.78E+04	N/A	N/A	1.70E-03	N/A
ylenes	0.014	2.01E+04	6.80E-07	6.66E-08	2.00E-01	**3.3E-07**

otes:

$_a = C_w/VF_{iw}$

C_a = Estimated concentration of chemical in air (mg/m^3)

C_w = Concentration of chemical in groundwater (mg/l): From the higher of either the UCL or arithmetic mean of all groundwater samples; Analytes that were non-detect for all samples are expressed as a concentration of 0

VF_{iw} = Indoor air volatilization factor from groundwater (m^3/l)

verage Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW

C_a = Chemical concentration in air (mg/m^3)

IR = Inhalation rate (m^3/hour)

ET = Exposure time (hours/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

D = Reference Dose

Table E-25
Calculation of Particulate Emission Factor for Fugitive Dust
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

EQUATION (EPA, 1991)

PEF = (LS * WS * MH * 3600 sec/hour)/A x (1000 g/kg)/(0.036 * 1-V * (U

SYMBOLS AND DESCRIPTIONS	UNITS	VALUES
V = Fraction of Vegetation Cover	unitless	0.1
U_m = Mean Annual Wind Speed	m/s	4.69
U_t = Threshold Wind Speed	m/s	11.32
F_x = Function Specific to Model	unitless	0.194
E = Total Dust Flux (<10 um)	kg/m^2	4.5E-04
A = Area of Impacted Soil Exposed	m^2	3.82E+04
WS = Wind speed in mixing zone	m/s	2.5E+00
LS = Length of Soil Perpendicular to Wind Direction	m	405.4
MH = Mixing Height	m	2
PEF = Particulate Emission Factor	m^3/kg	**4.3E+08**

Equation from:

EPA, 1991. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual (Part B, Development of Risk-Based Preliminary Remediation Goals. Publication 9285.7-01B. December

Table E-26
Complete Data Set
Carcinogenic Risks from Inhalation of Fugitive Dust
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Estimated Air Concentration (mg/m^3)	LADD (mg/kg-day)	Inhalation CSF $(mg/kg\text{-}day)^{-1}$	Risk
VOCs					
Benzene	0.0126	2.96E-11	3.10E-14	1.00E-01	**3E-15**
Bromodichloromethane	0.0047	1.11E-11	1.16E-14	1.30E-01	**2E-15**
1,2-Dibromo-3-chloropropane	0.0000	0.00E+00	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	1.05E-08	1.10E-11	2.10E-02	**2E-13**
Vinyl Chloride	0.0100	2.33E-11	2.44E-14	2.70E-01	**7E-15**
PAHs					
Benzo(a) Anthracene	0.00	0.00E+00	0.00E+00	3.90E-01	**0E+00**
Benzo(a) Pyrene	0.00	0.00E+00	0.00E+00	3.90E+00	**0E+00**
Benzo(b) Fluoranthene	0.00	0.00E+00	0.00E+00	3.90E-01	**0E+00**
Benzo(k) Fluoranthene	0.00	0.00E+00	0.00E+00	3.90E-01	**0E+00**
Chrysene	0.00	0.00E+00	0.00E+00	3.90E-02	**0E+00**
Indeno(1,2,3-cd) Pyrene	0.00	0.00E+00	0.00E+00	3.90E-01	**0E+00**
Metals					
Cadmium	0.98	2.29E-09	2.40E-12	1.20E+01	**3E-11**
Arsenic	4.43	1.04E-08	1.09E-11	1.50E+01	**2E-10**

Notes:

$C_a = C_s/PEF$

C_a = Estimated concentration of chemical in air (mg/m^3)

C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval) ; Analytes that were non-detect for all samples are expressed as a concentration of 0.0

PEF = Particulate emission factor (m^3/kg)

LADD = Lifetime Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW

C_a = Chemical concentration in air (mg/m^3)

IR = Inhalation rate (m^3/hour)

ET = Exposure time (hours/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-27
Complete Data Set
Non-carcinogenic Risks from Inhalation of Fugitive Dust
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Estimated Air Concentration (mg/m^3)	Average Daily Dose (mg/kg-day)	Inhalation RfD (mg/kg-day)	Hazard Index
VOCs					
Benzene	0.0126	2.96E-11	4.35E-12	1.70E-03	**2.6E-09**
Bromodichloromethane	0.0047	1.11E-11	1.63E-12	2.00E-02	**8.1E-11**
Chlorobenzene	0.0012	2.81E-12	4.13E-13	1.70E-02	**2.4E-11**
2-Chlorotoluene	0.0000	N/A	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	1.29E-09	1.90E-10	1.00E-02	**1.9E-08**
1,2-Dibromo-3-chloropropane	0.0000	N/A	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	3.34E-10	4.90E-11	2.90E-01	**1.7E-10**
Styrene	0.0043	9.97E-12	1.46E-12	2.90E-01	**5.0E-12**
Tetrachloroethene	4.4599	1.05E-08	1.53E-09	1.10E-01	**1.4E-08**
Toluene [(b)]	0.0091	2.12E-11	3.11E-12	1.10E-01	**2.8E-11**
1,2,4-Trimethylbenzene	0.0386	9.04E-11	1.33E-11	1.70E-03	**7.8E-09**
1,3,5-Trimethylbenzene	0.0056	1.31E-11	1.93E-12	1.70E-03	**1.1E-09**
Xylenes	0.0211	4.95E-11	7.26E-12	2.00E-01	**3.6E-11**
PAHs					
Acenaphthene	0.03	6.20E-11	9.09E-12	6.00E-02	**1.5E-10**
Anthracene	0.00	0.00E+00	0.00E+00	3.00E-01	**0.0E+00**
Fluoranthene	0.00	0.00E+00	0.00E+00	4.00E-02	**0.0E+00**
Naphthalene	0.11	2.47E-10	3.63E-11	4.00E-02	**9.1E-10**
Pyrene	0.00	0.00E+00	0.00E+00	3.00E-02	**0.0E+00**
INORGANICS (Metals)					
Arsenic	4.43	1.04E-08	1.52E-09	N/A	N/A
Cadmium	0.98	2.29E-09	3.36E-10	N/A	N/A
Chromium (III)	31.08	7.28E-08	1.07E-08	N/A	N/A
Copper	34.29	8.03E-08	1.18E-08	N/A	N/A

Table E-27
Complete Data Set
Non-carcinogenic Risks from Inhalation of Fugitive Dust
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Notes:

$C_a = C_s/PEF$

C_a = Estimated concentration of chemical in air (mg/m^3)

C_s = Concentration of chemical in soil (mg/kg) (based on the highest of the 95% UCI from the normal and lognormal distribution for soil samples obtained across the entire site or the maximum detected concentration if the UCI exceeds the maximum detected concentration); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

PEF = Particulate emission factor (m^3/kg)

Average Daily Dose = C_a x IR x ET x EF x ED x 1/AT x 1/BW

C_a = Chemical concentration in air (mg/m^3)

IR = Inhalation rate (m^3/hour)

ET = Exposure time (hours/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

RfD = Reference Dose

(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.

(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-28
Complete Data Set
Carcinogenic Risks from Incidental Ingestion of Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	LADD (mg/kg-day)	Oral CSF $(mg/kg\text{-}day)^{-1}$	Risk
VOCs				
Benzene	0.0126	8.83E-11	1.00E-01	**9E-12**
Bromodichloromethane	0.0047	3.31E-11	1.30E-01	**4E-12**
1,2-Dibromo-3-chloropropane	0.0000	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	3.12E-08	5.10E-02	**2E-09**
Vinyl Chloride	0.0100	6.96E-11	2.70E-01	**2E-11**
PAHs				
Benzo(a) Anthracene	0.00	0.00E+00	1.20E+00	**0E+00**
Benzo(a) Pyrene	0.00	0.00E+00	1.20E+01	**0E+00**
Benzo(b) Fluoranthene	0.00	0.00E+00	1.20E+00	**0E+00**
Benzo(k) Fluoranthene	0.00	0.00E+00	1.20E+00	**0E+00**
Chrysene	0.00	0.00E+00	1.20E-01	**0E+00**
Indeno(1,2,3-cd) Pyrene	0.00	0.00E+00	1.20E+00	**0E+00**
Metals				
Arsenic	4.43	3.10E-08	1.50E+00	**5E-08**

Notes:

LADD = Lifetime Average Daily Dose = C_s x IR x 1E-6 kg/mg x EF x ED x 1/AT x 1/BW

C_s = Concentration of chemical in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

IR = Soil ingestion rate (mg/day)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

CSF = Cancer Slope Factor

Table E-29
Complete Data Set
Non-Carcinogenic Risks from Incidental Ingestion of Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Average Daily Dose (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Index
VOCs				
Benzene	0.0126	1.24E-08	1.70E-03	**7.3E-06**
Bromodichloromethane	0.0047	4.63E-09	2.00E-02	**2.3E-07**
Chlorobenzene	0.0012	1.17E-09	2.00E-02	**5.9E-08**
2-Chlorotoluene	0.0000	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	5.40E-07	1.00E-02	**5.4E-05**
1,2-Dibromo-3-chloropropane	0.0000	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	1.39E-07	1.00E-01	**1.4E-06**
Styrene	0.0043	4.16E-09	2.00E-01	**2.1E-08**
Tetrachloroethene	4.4599	4.36E-06	1.00E-02	**4.4E-04**
Toluene [(b)]	0.0091	8.86E-09	2.00E-01	**4.4E-08**
1,2,4-Trimethylbenzene	0.0386	3.77E-08	5.00E-02	**7.5E-07**
1,3,5-Trimethylbenzene	0.0056	5.49E-09	5.00E-02	**1.1E-07**
Xylenes	0.0211	2.07E-08	2.00E+00	**1.0E-08**
PAHs				
Acenaphthene	0.03	2.59E-08	6.00E-02	**4.3E-07**
Anthracene	0.00	0.00E+00	3.00E-01	**0.0E+00**
Fluoranthene	0.00	0.00E+00	4.00E-02	**0.0E+00**
Naphthalene	0.11	1.03E-07	4.00E-02	**2.6E-06**
Pyrene	0.00	0.00E+00	3.00E-02	**0.0E+00**
INORGANICS (Metals)				
Arsenic	4.43	4.34E-06	3.00E-04	**1.4E-02**
Cadmium	0.98	9.57E-07	5.00E-04	**1.9E-03**
Chromium (III)	31.08	3.04E-05	1.00E+00	**3.0E-05**
Copper	34.29	3.35E-05	3.70E-02	**9.1E-04**

Notes:

Average Daily Dose = C_s x IR x 1E-6 kg/mg x EF x ED x 1/AT x 1/BW

C_s = Chemical concentration in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

IR = Soil ingestion rate (mg/day)
EF = Exposure frequency (days/year)
ED = Exposure duration (years)
AT = Averaging time (days)
BW = Body weight (kg)

RfD = Reference Dose
(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations.
(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-30
Complete Data Set
Carcinogenic Risks from Dermal Contact with Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Dermal Absorption Factor	LADD (mg/kg-day)	Oral CSF $(mg/kg\text{-}day)^{-1}$	Risk
VOCs					
Benzene	0.0126	0.1	8.83E-11	1.00E-01	**9E-12**
Bromodichloromethane	0.0047	0.1	3.31E-11	1.30E-01	**4E-12**
1,2-Dibromo-3-chloropropane	0.0000	0.1	0.00E+00	7.00E+00	**0E+00**
Tetrachloroethene	4.4599	0.1	3.12E-08	5.10E-02	**2E-09**
Vinyl Chloride	0.0100	0.1	6.96E-11	2.70E-01	**2E-11**
PAHs					
Benzo(a) Anthracene	0.00	0.1	0.00E+00	1.20E+00	**0E+00**
Benzo(a) Pyrene	0.00	0.1	0.00E+00	1.20E+01	**0E+00**
Benzo(b) Fluoranthene	0.00	0.1	0.00E+00	1.20E+00	**0E+00**
Benzo(k) Fluoranthene	0.00	0.1	0.00E+00	1.20E+00	**0E+00**
Chrysene	0.00	0.1	0.00E+00	1.20E-01	**0E+00**
Indeno(1,2,3-cd) Pyrene	0.00	0.1	0.00E+00	1.20E+00	**0E+00**
Metals					
Arsenic	4.43	0.01	3.10E-09	1.50E+00	**5E-09**

Notes:

LADD = Lifetime Average Daily Dose = C_s x SA x AF x AC x 1E-6 kg/mg x EF x ED x 1/AT x 1/BW

C_s = Chemical concentration in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

SA = Surface area of exposed skin (cm^2)

AF = Soil to skin adherence factor (mg soil/cm^2 skin-day)

AC = Absorption coefficient for chemical across dermis (unitless)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

CSF = Cancer Slope Factor (oral CSF used for dermal exposure)

Table E-31
Complete Data Set
Non-Carcinogenic Risks from Dermal Contact with Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Chemical	Soil Concentration (mg/kg)	Dermal Absorption Factor	Average Daily Dose (mg/kg-day)	Oral RfD (mg/kg-day)	Hazard Index
VOCs					
Benzene	0.0126	0.1	1.24E-08	1.70E-03	**7.3E-06**
Bromodichloromethane	0.0047	0.1	4.63E-09	2.00E-02	**2.3E-07**
Chlorobenzene	0.0012	0.1	1.17E-09	2.00E-02	**5.9E-08**
2-Chlorotoluene	0.0000	0.1	N/A	2.00E-02	N/A
cis 1,2-Dichloroethylene	0.5523	0.1	5.40E-07	1.00E-02	**5.4E-05**
1,2-Dibromo-3-chloropropane	0.0000	0.1	N/A	5.70E-05	N/A
Ethylbenzene [(a)]	0.1423	0.1	1.39E-07	1.00E-01	**1.4E-06**
Styrene	0.0043	0.1	4.16E-09	2.00E-01	**2.1E-08**
Tetrachloroethene	4.4599	0.1	4.36E-06	1.00E-02	**4.4E-04**
Toluene [(b)]	0.0091	0.1	8.86E-09	2.00E-01	**4.4E-08**
1,2,4-Trimethylbenzene	0.0386	0.1	3.77E-08	5.00E-02	**7.5E-07**
1,3,5-Trimethylbenzene	0.0056	0.1	5.49E-09	5.00E-02	**1.1E-07**
Xylenes	0.0211	0.1	2.07E-08	2.00E+00	**1.0E-08**
PAHs					
Acenaphthene	0.03	0.1	2.59E-08	6.00E-02	**4.3E-07**
Anthracene	0.00	0.1	0.00E+00	3.00E-01	**0.0E+00**
Fluoranthene	0.00	0.1	0.00E+00	4.00E-02	**0.0E+00**
Naphthalene	0.11	0.1	1.03E-07	4.00E-02	**2.6E-06**
Pyrene	0.00	0.1	0.00E+00	3.00E-02	**0.0E+00**
INORGANICS (Metals)					
Arsenic	4.43	0.01	4.34E-07	3.00E-04	**1.4E-03**
Cadmium	0.98	0.01	9.57E-08	5.00E-04	**1.9E-04**
Chromium (III)	31.08	0.01	3.04E-06	1.00E+00	**3.0E-06**
Copper	34.29	0.01	3.35E-06	3.70E-02	**9.1E-05**

Table E-31
Complete Data Set
Non-Carcinogenic Risks from Dermal Contact with Soil
Construction Worker
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

Notes:

Average Daily Dose = C_s x SA x AF x AC x 1E-6 kg/mg x EF x ED x 1/AT x 1/BW

C_s = Chemical concentration in soil (mg/kg) (highest of upper 95% confidence interval for normal or lognormal distribution for soil samples or the maximum detected concentration, if lower than the upper 95% confidence interval); Analytes that were non-detect for all samples are expressed as a concentration of 0.0

SA = Surface area of exposed skin (cm^2)

AF = Soil to skin adherence factor (mg soil/cm^2 skin-day)

AC = Absorption coefficient for chemical across dermis (unitless)

EF = Exposure frequency (days/year)

ED = Exposure duration (years)

AT = Averaging time (days)

BW = Body weight (kg)

RfD = Reference Dose (oral reference dose used for dermal exposure)

(a) = Soil concentration includes ethylbenzene plus 0.134 mg/kg for substituted benzene concentrations

(b) = Soil concentration includes toluene plus 0.005 mg/kg for p-isopropyltoluene concentrations.

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Inhalation of Fugitive Dust						
Benzene	3E-15	0.00000%	N/A	N/A	N/A	N/A
Bromodichloromethane	2E-15	0.00000%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	0E+00	0.00000%	N/A	N/A	N/A	N/A
Tetrachloroethene	2E-13	0.00011%	N/A	N/A	N/A	N/A
Vinyl Chloride	7E-15	0.00000%	N/A	N/A	N/A	N/A
Benzo(a) Anthracene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Benzo(a) Pyrene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Benzo(b) Fluoranthene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Benzo(k) Fluoranthene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Chrysene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd) Pyrene	0E+00	0.00000%	N/A	N/A	N/A	N/A
Cadmium	3E-11	0.01412%	N/A	N/A	N/A	N/A
Arsenic	2E-10	0.07996%	N/A	N/A	N/A	N/A
Pathway Total	2E-10	0.094%	N/A	N/A	N/A	N/A

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Inhalation of Vapors-Soil						
Benzene	2E-09	1%	2E-08	1.2%	6E-10	1.2%
Bromodichloromethane	2E-10	0%	2E-09	0.1%	6E-11	0.1%
1,2-Dibromo-3-chloropropane	0E+00	0%	0E+00	0.0%	0E+00	0.0%
Tetrachloroethene	1E-07	49%	9.E-07	67.2%	3E-08	67.2%
Vinyl Chloride	4E-08	21%	4.E-07	28.1%	1E-08	28.1%
Benzo(a) Anthracene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a) Pyrene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b) Fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k) Fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	N/A	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd) Pyrene	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A	N/A	N/A
Pathway Total	1E-07	71%	1E-06	97%	5E-08	97%

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Inhalation of Vapors-Groundwater						
Benzene	6E-11	0%	5E-10	0.0%	2E-11	0.0%
Bromodichloromethane	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene	5E-09	2%	4E-08	3.3%	2E-09	3.3%
Vinyl Chloride	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a) Anthracene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(a) Pyrene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(b) Fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A
Benzo(k) Fluoranthene	N/A	N/A	N/A	N/A	N/A	N/A
Chrysene	N/A	N/A	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd) Pyrene	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A	N/A	N/A
Pathway Total	5E-09	2%	4E-08	3%	2E-09	3%

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Dermal Contact with Soil						
Benzene	9E-12	0.00%	N/A	N/A	N/A	N/A
Bromodichloromethane	4E-12	0.00%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	0E+00	0.00%	N/A	N/A	N/A	N/A
Tetrachloroethene	2E-09	0.78%	N/A	N/A	N/A	N/A
Vinyl Chloride	2E-11	0.01%	N/A	N/A	N/A	N/A
Benzo(a) Anthracene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(a) Pyrene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(b) Fluoranthene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(k) Fluoranthene	0E+00	0.00%	N/A	N/A	N/A	N/A
Chrysene	0E+00	0.00%	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd) Pyrene	0E+00	0.00%	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	5E-09	2.27%	N/A	N/A	N/A	N/A
Pathway Total	6E-09	3%	N/A	N/A	N/A	N/A

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Ingestion of Soil						
Benzene	9E-12	0.00%	N/A	N/A	N/A	N/A
Bromodichloromethane	4E-12	0.00%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	0E+00	0.00%	N/A	N/A	N/A	N/A
Tetrachloroethene	2E-09	0.78%	N/A	N/A	N/A	N/A
Vinyl Chloride	2E-11	0.01%	N/A	N/A	N/A	N/A
Benzo(a) Anthracene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(a) Pyrene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(b) Fluoranthene	0E+00	0.00%	N/A	N/A	N/A	N/A
Benzo(k) Fluoranthene	0E+00	0.00%	N/A	N/A	N/A	N/A
Chrysene	0E+00	0.00%	N/A	N/A	N/A	N/A
Ideno(1,2,3-cd) Pyrene	0E+00	0.00%	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic	5E-08	22.75%	N/A	N/A	N/A	N/A
Pathway Total	5E-08	24%	N/A	N/A	N/A	N/A

Table E-32
Complete Data Set
SUMMARY OF CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk	Incremental Lifetime Cancer Risk	Percentage Contribution to Total Risk
Receptor Total	2E-07	100%	1E-06	100%	5E-08	100%

Notes:
N/A = not applicable
COPC = constituent of potential concern

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Inhalation of Fugitive Dust						
Benzene	2.6E-09	0.000006%	N/A	N/A	N/A	N/A
Bromodichloromethane	8.1E-11	0.000000%	N/A	N/A	N/A	N/A
Chlorobenzene	2.4E-11	0.000000%	N/A	N/A	N/A	N/A
2-Chlorotoluene	N/A	N/A	N/A	N/A	N/A	N/A
cis 1,2-Dichloroethylene	1.9E-08	0.000047%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene [(a)]	1.7E-10	0.000000%	N/A	N/A	N/A	N/A
Styrene	5.0E-12	0.000000%	N/A	N/A	N/A	N/A
Tetrachloroethene	1.4E-08	0.000034%	N/A	N/A	N/A	N/A
Toluene [(b)]	2.8E-11	0.000000%	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	7.8E-09	0.000019%	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	1.1E-09	0.000003%	N/A	N/A	N/A	N/A
Xylenes	3.6E-11	0.000000%	N/A	N/A	N/A	N/A
Acenaphthene	1.5E-10	0.000000%	N/A	N/A	N/A	N/A
Anthracene	0.0E+00	0.000000%	N/A	N/A	N/A	N/A
Fluoranthene	0.0E+00	0.000000%	N/A	N/A	N/A	N/A
Naphthalene	9.1E-10	0.000002%	N/A	N/A	N/A	N/A
Pyrene	0.0E+00	0.000000%	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A	N/A	N/A
Chromium (III)	N/A	N/A	N/A	N/A	N/A	N/A
Copper	N/A	N/A	N/A	N/A	N/A	N/A
Pathway Total	5E-08	0.000113%	N/A	N/A	N/A	N/A

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Inhalation of Vapors - Soil						
Benzene	1.5E-03	4%	2.5E-04	7.1%	9.7E-06	7.1%
Bromodichloromethane	9.7E-06	0%	1.7E-06	0.0%	6.4E-08	0.0%
Chlorobenzene	4.6E-06	0%	7.9E-07	0.0%	3.1E-08	0.0%
2-Chlorotoluene	N/A	N/A	N/A	N/A	N/A	N/A
cis 1,2-Dichloroethylene	1.2E-02	29%	2.0E-03	57.5%	7.9E-05	57.5%
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene [(a)]	5.2E-05	0%	9.0E-06	0.3%	3.5E-07	0.3%
Styrene	3.9E-07	0%	6.7E-08	0.0%	2.6E-09	0.0%
Tetrachloroethene	6.1E-03	15%	1.0E-03	29.7%	4.1E-05	29.7%
Toluene [(b)]	1.1E-05	0%	1.8E-06	0.1%	7.1E-08	0.1%
1,2,4-Trimethylbenzene	4.4E-04	1%	7.5E-05	2.1%	2.9E-06	2.1%
1,3,5-Trimethylbenzene	1.6E-04	0%	2.8E-05	0.8%	1.1E-06	0.8%
Xylenes	1.1E-05	0%	1.8E-06	0.1%	7.1E-08	0.1%
Pathway Total	2.E-02	49%	3.E-03	98%	1.E-04	98%

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Inhalation of Vapors - Groundwater						
Benzene	4.9E-05	0%	8.5E-06	0.2%	3.3E-07	0.2%
Bromodichloromethane	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	N/A	N/A	N/A	N/A	N/A	N/A
2-Chlorotoluene	N/A	N/A	N/A	N/A	N/A	N/A
cis 1,2-Dichloroethylene	1.3E-04	0%	2.2E-05	0.6%	8.5E-07	0.6%
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene [(a)]	4.3E-07	0%	7.4E-08	0.0%	2.9E-09	0.0%
Styrene	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene	3.0E-04	1%	5.2E-05	1.5%	2.0E-06	1.5%
Toluene [(b)]	1.2E-06	0%	2.1E-07	0.0%	8.3E-09	0.0%
1,2,4-Trimethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes	1.9E-06	0%	3.3E-07	0.0%	1.3E-08	0.0%
Pathway Total	5.E-04	1%	8.E-05	2%	3.E-06	2%

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Dermal Contact with Soil						
Benzene	7.3E-06	0.02%	N/A	N/A	N/A	N/A
Bromodichloromethane	2.3E-07	0.00%	N/A	N/A	N/A	N/A
Chlorobenzene	5.9E-08	0.00%	N/A	N/A	N/A	N/A
2-Chlorotoluene	N/A	N/A	N/A	N/A	N/A	N/A
cis 1,2-Dichloroethylene	5.4E-05	0.13%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene [(a)]	1.4E-06	0.00%	N/A	N/A	N/A	N/A
Styrene	2.1E-08	0.00%	N/A	N/A	N/A	N/A
Tetrachloroethene	4.4E-04	1.08%	N/A	N/A	N/A	N/A
Toluene [(b)]	4.4E-08	0.00%	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	7.5E-07	0.00%	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	1.1E-07	0.00%	N/A	N/A	N/A	N/A
Xylenes	1.0E-08	0.00%	N/A	N/A	N/A	N/A
Acenaphthene	4.3E-07	0.00%	N/A	N/A	N/A	N/A
Anthracene	0.0E+00	0.00%	N/A	N/A	N/A	N/A
Fluoranthene	0.0E+00	0.00%	N/A	N/A	N/A	N/A
Naphthalene[(b)]	2.6E-06	0.01%	N/A	N/A	N/A	N/A
Pyrene	0.0E+00	0.00%	N/A	N/A	N/A	N/A
Arsenic	1.4E-03	3.56%	N/A	N/A	N/A	N/A
Cadmium	1.9E-04	0.47%	N/A	N/A	N/A	N/A
Chromium (III)	3.0E-06	0.01%	N/A	N/A	N/A	N/A
Copper	9.1E-05	0.22%	N/A	N/A	N/A	N/A
Pathway Total	2.E-03	6%	N/A	N/A	N/A	N/A

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Ingestion of Soil						
Benzene	7.3E-06	0.0%	N/A	N/A	N/A	N/A
Bromodichloromethane	2.3E-07	0.0%	N/A	N/A	N/A	N/A
Chlorobenzene	5.9E-08	0.0%	N/A	N/A	N/A	N/A
2-Chlorotoluene	N/A	N/A	N/A	N/A	N/A	N/A
cis 1,2-Dichloroethylene	5.4E-05	0.1%	N/A	N/A	N/A	N/A
1,2-Dibromo-3-chloropropane	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene [(a)]	1.4E-06	0.0%	N/A	N/A	N/A	N/A
Styrene	2.1E-08	0.0%	N/A	N/A	N/A	N/A
Tetrachloroethene	4.4E-04	1.1%	N/A	N/A	N/A	N/A
Toluene [(b)]	4.4E-08	0.0%	N/A	N/A	N/A	N/A
1,2,4-Trimethylbenzene	7.5E-07	0.0%	N/A	N/A	N/A	N/A
1,3,5-Trimethylbenzene	1.1E-07	0.0%	N/A	N/A	N/A	N/A
Xylenes	1.0E-08	0.0%	N/A	N/A	N/A	N/A
Acenaphthene	4.3E-07	0.0%	N/A	N/A	N/A	N/A
Anthracene	0.0E+00	0.0%	N/A	N/A	N/A	N/A
Fluoranthene	0.0E+00	0.0%	N/A	N/A	N/A	N/A
Naphthalene	2.6E-06	0.0%	N/A	N/A	N/A	N/A
Pyrene	0.0E+00	0.0%	N/A	N/A	N/A	N/A
Arsenic	1.4E-02	35.6%	N/A	N/A	N/A	N/A
Cadmium	1.9E-03	4.7%	N/A	N/A	N/A	N/A
Chromium (III)	3.0E-05	0.1%	N/A	N/A	N/A	N/A
Copper	9.1E-04	2.2%	N/A	N/A	N/A	N/A
Pathway Total	2.E-02	44%	N/A	N/A	N/A	N/A

Table E-33
Complete Data Set
SUMMARY OF NON-CARCINOGENIC RISK ESTIMATES
Reasonable Maximum Exposure Scenarios
Jalk Fee Property
10607 Norwalk Boulevard, Santa Fe Springs, California

COPC	Construction Worker		Future Indoor Employee		Future Outdoor Employee	
	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk	Hazard Index	Percentage Contribution to Total Risk
Receptor Total	4.E-02	100.0%	4.E-03	100.0%	1.E-04	100.0%

Notes:
N/A = not applicable
COPC = constituent of potential concern
(a) = Data represents ethylbenzene concentrations plus substituted benzene concentrations
(b) = Data represents toluene concentrations plus detected p-isopropyltoluene concentrations

APPENDIX F

ENVIRONMENTAL FATE AND TRANSPORT MODELING

APPENDIX F

ENVIRONMENTAL FATE AND TRANSPORT MODELING

F.1 BACKGROUND TO ENVIRONMENTAL FATE AND TRANSPORT MODELING

The vadose zone is a dynamic interdependent system of abiotic and biotic factors that are linked by physical, chemical, and biological processes. Chemicals introduced into this system use these linkages to migrate within and between the various media, and as they migrate are transformed and degraded. The processes of importance can be categorized as transport, sorption, transformation/degradation, and volatilization. Environmental fate and transport models can be used to simulate the processes acting on chemicals in soil. The mathematical representation of natural fate and transport processes is limited by: 1) how accurately the model represents the process and 2) the parameter values used in the model. TRC has incorporated site-specific parameter values where available and, in the absence of site-specific parameter values, representative estimates were obtained from literature-derived sources and/or conservative model default parameters.

In order to determine the potential for residual chlorinated solvents and crude oil in soil to impact groundwater, the environmental fate and transport of PCE was analyzed. PCE has historically been the highest concentration chlorinated solvent detected in soil and was chosen as a representative chemical to predict worst case solvent impact to groundwater. Based on results of previous fate and transport modeling and subsequent soil remediation, crude oil contamination has not been demonstrated to present a significant threat to groundwater.

F.1.1 Transport

Transport of chemicals in the vadose zone occurs in the pore spaces of the soil. Transport of chemicals can occur in the three following phases: 1) dissolved in soil moisture, 2) vapor-phase in soil pore gas, and 3) liquid-phase (free-phase) chemical.

When a sufficient quantity of liquid chemical is released to the vadose zone, it can locally replace water as the primary solvent in the media. In this instance, the downward migration of such a chemical is due to gravity and capillary forces. This migration will continue until one of three conditions occurs: 1) the bulk chemical plume encounters an impermeable feature, 2) the bulk chemical plume reaches the capillary fringe above the saturated zone, or 3) the chemical is completely transformed to residual saturation (Dragun, 1988).

When a plume reaches an impermeable layer, it will accumulate and spread laterally at the boundary layer of the strata. If a sufficient volume of the bulk chemical is present, the lateral

spreading will continue until the plume reaches an edge of the layer or a pore channel and then will continue to migrate downward.

Upon reaching the capillary fringe, the chemical plume will come into contact with water-filled pore channels. At this point the chemical will either pool on the groundwater surface or on the bottom of the aquifer, depending on the density of the chemical. The chemical will also dissolve into groundwater and be subject to transport with the groundwater in the dissolved phase.

When chemicals travel in liquid-phase, a mass of chemical will remain in the pore channels after the bulk chemical plume has passed through the soil column. The mass of chemical held by the capillary forces of the soil is referred to as the residual saturation. As the downward migration proceeds, the bulk chemical plume is converted to residual saturation. When this conversion is complete, free-phase migration ceases (Dragun, 1988). The concentrations of contaminants observed in soil samples collected from the Jalk Fee site are lower than the concentrations necessary for bulk transport to occur (Pankow and Cherry, 1996). As a result, dissolved-phase transport of contaminants through precipitation-driven mechanisms was selected as the primary fate and transport process for this analysis.

Properties that impart a significant influence on fate and transport of petroleum hydrocarbons under precipitation-driven mechanisms include: solubility in water, volatilization rates, adsorption characteristics, biodegradation rates, hydrolysis, and oxidation reduction characteristics. These properties and their effect on chemical fate and transport are discussed in further detail below:

Solubility

The solubility of a substance in water is defined as the mass of substance that will dissolve in a unit volume of water. The solubility of a compound varies with temperature, pressure, pH, and the concentration of other dissolved constituents in the solution (Montgomery and Welkom, 1990). A liquid or solid contaminant may partially or wholly dissolve in water and therefore, may be transported in the dissolved phase. The solubility of a compound controls the amount of compound which may be released to soil moisture or groundwater and therefore, limits the magnitude of potential groundwater impact. In general, highly soluble chemicals can be rapidly leached from soils and are mobile in groundwater. The solubilities of organic chemicals range from less than 1 milligram per liter (mg/l) in water for polychlorinated biphenyls to greater than 100,000 mg/l for acetone (Howard, 1990). The solubility of PCE as used in the SESOIL model for the Jalk Fee Property is 240 mg/l (Pankow and Cherry, 1996).

Volatilization

Volatilization of a compound depends on physical and chemical properties such as vapor pressure, water solubility, and molecular weight. Highly water-soluble compounds generally have lower volatilization rates from water than compounds having a low water solubility. The Henry's Law constant combines vapor pressure with solubility to provide a means of estimating the transfer of a compound from water to air. Chemicals with Henry's Law constants less than or equal to 0.001 (atm m^3/mole) do not volatilize readily, whereas chemicals with Henry's Law constants greater than 1.0 will be found primarily in the vapor phase. The Henry's Law constant for PCE is 0.0174 (atm-m^3/mole) (Pankow and Cherry, 1996.

F.1.2 Sorption

Movement of chemicals through the vadose zone to groundwater is primarily a liquid-phase process involving a solvent (water) and the chemical. Sorption is the removal of a solute from a solution through its association with a solid surface as the result of electrostatic or chemical forces (Srinivasan and Mercer, 1987). Sorption can occur as a result of the affinity of the solute for the solid, or the lack of affinity of the solute for the solution. The lack of a solute's affinity for water is termed *hydrophobicity*, and is typified by many nonpolar organic compounds. Chemicals that adsorb readily to soil organic matter and clay particles will not migrate significantly from the region of the soil profile in which they are initially located. Several generalizations can be made regarding sorption:

- The pH of the water and crystal structure of the sorbing minerals have a direct effect on the sorption characteristics of the media.

- There is a direct relationship between the concentrations of a contaminant in solution and the amount of that substance which will be adsorbed on particle surfaces. An increase in the concentration of a substance in solution will cause a corresponding increase in the quantity sorbed (Aller et al., 1987).

- Organic substances that are molecularly nonpolar, and therefore not attracted to water molecules, are frequently adsorbed by soils and sediments containing clay and organic carbon (Aller et al., 1987).

The sorption of hydrophobic chemicals to soils can be correlated to the organic carbon content of the soil. Hydrophobic chemicals partition between the organic carbon of the soil and water. The partitioning is similar to the partitioning of the chemical between water and an immiscible organic solvent, such as octanol. Thus, the octanol-water partition coefficient (K_{ow}) is used to calculate the organic carbon-water partition coefficient (K_{oc}). The normal range of K_{oc} is from 1.0 to greater

than 100,000 (Howard, 1990). As the K_{oc} increases, the affinity to the organic carbon fraction of soil increases. The K_{oc} for PCE is 364 (Pankow and Cherry, 1996), indicating a moderate affinity to organic carbon.

Sorption can result in reducing the migration rate of hydrophobic chemicals dissolved in pore water or groundwater. Thus, the velocity of the chemical would be retarded in relationship to the pore water or groundwater velocity. This applies only to chemicals traveling as a dissolved phase, the free-phase velocity is not affected by this mechanism (EPA, 1988). However, this distinction is insignificant because free-phase solvent transport cannot occur under the observed site-specific conditions at the subject site. In addition, sorption of a chemical can also affect other fate and transport processes. Rates of volatilization, hydrolysis, photolysis, and biodegradation are all affected by the extent of sorption of chemicals to solids (Dragun, 1988).

F.1.3 Transformation-Degradation

Transformation and degradation processes include the primary chemical and biological mechanisms that influence the fate of a chemical and determine its persistence in soil or groundwater. The key processes include biotransformation, chemical hydrolysis, photolysis, and oxidation-reduction. These processes can occur under aerobic or anaerobic conditions and may depend on the nature and extent of the contamination. **To be conservative during modeling it was assumed that no transformation/degradation processes were occurring.**

F.2 MODELING DISSOLVED-PHASE CHEMICAL MIGRATION USING SESOIL

SESOIL (Bonazountas and Wagner, 1984; Hetrick et al., 1984, 1991, 1993) was used to model the dissolved-phase transport of PCE in the soil. This transport occurs when percolating rainfall leaches through the soil and dissolves the residual contaminants. Depth to groundwater was based on current and historic site-specific observations and set at approximately 60 feet below grade (18.3 meters). The following sections provide conceptual descriptions of the input file construction and cite the parameters used to model the fate and transport of PCE in the vadose zone.

F.2.1 SESOIL Input File Parameters

Representation of site-specific parameters is accomplished through designing appropriate values for the SESOIL input files. The four input files used in the SESOIL modeling regimen include descriptions of 1) climate, 2) soil, 3) chemical, and 4) application or chemical loading. In the absence of site-specific data, literature-derived and/or SESOIL default values were used.

F.2.1.1 Climate Input File

The climate input file contains data required to simulate the hydrologic cycle. Information in this file includes 1) monthly climatologic data for a region (e.g., temperature, humidity), and 2) monthly storm parameters for a region (e.g., rainfall, infiltration). The parameters determine the input of water to the soil column, the evaporation of water from the soil column, and the percolation of water through the soil column. The amount of water that percolates through the soil layers is equal to the amount of water which is input to the soil less the amount of water that evaporates back to the atmosphere. The precipitation is approximated from the average storm cycle of the geographical region. The average storm cycle includes average values for precipitation, number of storms, and storm duration. Monthly rainfall depth, temperature, percent humidity, percent cloud cover, storm frequency, and storm duration data were derived from data collected from the Brea Dam monitoring station (GSC, 1995).

F.2.1.2 Soil Input File

Soil parameters are used in the SESOIL program to determine the rate at which chemicals and water move through the soil matrix. The soil parameters include effective porosity, bulk density, permeability, disconnectedness, organic carbon content, and cation exchange coefficient.

The total porosity of a soil is a measure of the fraction of the soil volume that is not occupied by soil particles. In essence, it is a measurement of the "empty spaces" in a soil which can be occupied by air or water. Hygroscopic water is the fraction of pore water which is tightly held to soil particles. In addition, hygroscopic water is not mobile (Dragun, 1988).

The effective porosity of soil represents the total porosity of soil minus the fraction of the hygroscopic porosity. Therefore, a portion of the soil volume is occupied by water which is not mobile. The value of effective porosity used in this analysis is 0.28, and is an average value for sandy loam. The bulk density of a soil is the dry weight of the soil divided by its volume (kg/m^3). The bulk density value used in this analysis is 1.49 g/cm^3 and was based on the average bulk density of the entire soil column (based on 12 site specific measurements) between the ground surface and the saturated zone.

The disconnectedness of a soil indicates the ratio of soil micropores to macropores. Macropores are spaces between soil particles that are greater than 100 μm wide and micropores are spaces between soil particles that are less than 100 μm wide (Dragun, 1988). Water can flow freely through macropores, but is inhibited in micropores by capillary forces. Values for disconnectedness of a soil range from 1 to 15, with higher values indicating a greater percentage of micropores. Therefore, transport of water (and hydrocarbons dissolved in water) is retarded in soil with high disconnectedness values. The disconnectedness values for sandy soils are reported to range from

approximately 3.7 to 6.0 (Bonazountas and Wagner, 1984). The disconnectedness value used in this study (3.9) is on the lower end of the range of values for sandy soil (Bonazountas and Wagner, 1984).

The fraction organic carbon content of a soil indicates the weight fraction of soil that is composed of organic carbon. Organic molecules are generally nonpolar, meaning that they do not carry an electrical charge, while water is a polar liquid. Organic molecules do not tend to dissolve well in polar liquids like water. Instead, organic molecules tend to adsorb onto surfaces which are nonpolar. Since organic carbon is a major nonpolar component of soils, it is used as a reference to determine the adsorptivity of a soil.

In soils with low organic carbon content (e.g., less than 0.1%), sorption becomes affected significantly by the inorganic mineral surfaces of the soil (Karickhoff, 1984). This is a current topic of much research, and it appears that the significant factors controlling sorption in soils with low organic content are the presence of intragranular porosity, and the types of mineral surfaces (Hassett and Banwart, 1989; Pignatello, 1989). However, SESOIL accounts only for the partitioning effects due to soil organic carbon. The value for organic carbon used in this environmental fate analysis (0.093%) was conservatively based 11 of 12 measurements collected from the site during previous site assessment activities. To be conservative, one value (HS-3 at 16 fbg) was eliminated from the data set due an anomalous high result (Alton, 1997).

The cation exchange capacity (CEC) is the total amount of cations (positive ions) that can be adsorbed by a mass of soil (Dragun, 1988). This capacity is usually defined in units of milliequivalents (meq) per 100 grams of soil. A milliequivalent is defined as the amount of charge present in one milligram of hydrogen. The weight of one milliequivalent of a chemical is equal to the atomic weight of the chemical divided by its valence. A CEC of zero was assumed in this analysis, therefore, cation exchange was not incorporated as an attenuating mechanism in the fate and transport process of petroleum hydrocarbons.

F.2.1.3 Chemical Input File

The migration and transformation of a chemical in the soil matrix are determined by the chemical's properties. Chemical-specific parameters which are important in assessing environmental fate include water solubility, diffusion coefficient in air, Henry's Law constant, adsorption coefficient, and molecular weight. Summaries of the physical and chemical properties used for PCE are provided in Table F-1.

F.2.1.4 Application Input File

The application file describes the chemical loading rate to the soil layers, the size and thickness of the soil layers, the variability of soil parameters between the layers, and the number and frequency of output data. For the purpose of this simulation, the vadose zone was simplified and divided into four soil layers (Layer 1 through Layer 4). Layer 4 was divided into 10 sublayers of equal thickness allowing for distinct tracking of chemical concentration as it migrates to groundwater. Figure F-1 depicts the conceptual soil column structure as defined for the environmental fate modeling analysis.

The application area for the SESOIL analysis was based on site-specific observations of contaminant distribution but simplified to facilitate modeling activities. The contaminant distribution was simplified by estimating the total lateral extent as previously assumed (Alton 1997). Using the 10 ppb line as a cutoff value for the solvents, the lateral extent (area) was calculated. It was then assumed that the contamination occupied the area beneath the 10 ppb contour at a calculated average concentration for each of 4 identified soil layers. Since the only new soil data collected since simulations run in 1997 is from the upper soil layer (Layer 1), average concentrations for Layers 2, 3, and 4 were left unchanged (relative to 1997).

The chemical loading in SESOIL is designated in units of μg/ml (μg/cm^3) as an initial chemical concentration. The initial chemical concentration is converted internally by SESOIL by multiplying the user-supplied initial soil concentration (μg/g or mg/kg) by the bulk density of the soil (gm/cm^3).

The primary difference in the model input parameters between 1997 and today is with respect to the initial contaminant concentration for Layer 1. The initial contaminant concentration was calculated by averaging residual soil sample concentrations above laboratory detection limits over a fewer number of total samples (due to removal of previously considered in-situ samples by excavation), relative to 1997. The resultant initial contaminant concentration is higher than 1997 by a factor of approximately 4.5. For this analysis the concentrations used in each soil layer are presented in Table F-1.

F.2.2 SESOIL Output File

The SESOIL output file contains the model input and monthly results from the hydrologic cycle, washload cycle (not used in this analysis), and pollutant cycle. An annual summary report is also provided. The output from SESOIL also includes data regarding the mass distributions and chemical concentrations in various soil layers. The average groundwater concentration resulting from the fate and transport mechanisms described previously are calculated using the Summers Model for the groundwater mixing zone which is included as a component of the SESOIL program. The Summers Model uses groundwater parameters including hydraulic conductivity, horizontal

gradient, thickness of saturated zone, and width of contaminated interval to predict groundwater concentrations of contaminants immediately beneath the affected vadose zone. Figure F-1 provides a summary of parameters used to describe the groundwater mixing zone. The attached SESOIL output file contains data from the first 5 years of the model simulation and the 10th year and at 10 year intervals to duration of the simulation. Additionally, the year with the maximum predicted average groundwater concentration (128) is included for review.

F.3 SUMMARY OF FINDINGS OF FATE AND TRANSPORT MODELING

Environmental fate analysis was conducted using the vadose zone chemical transport model SESOIL to simulate precipitation-driven migration of the chlorinated solvent PCE. Estimates of the lateral extent of solvent-affected soil and vertical distribution and contaminant concentrations present in the subsurface were conservatively estimated based on existing site-specific data. Chemical specific properties such as solubility, diffusion coefficient, Henry's Law constant, and the organic carbon adsorption coefficient were obtained from a review of the literature. Soil properties such as density, permeability, porosity, and disconnectedness index were conservatively estimated from site-specific parameters, default values provided by SESOIL, and published literature values. The SESOIL model simulations were conducted over a period of 150 years. A summary of the conclusions relative to the environmental fate modeling is provided below:

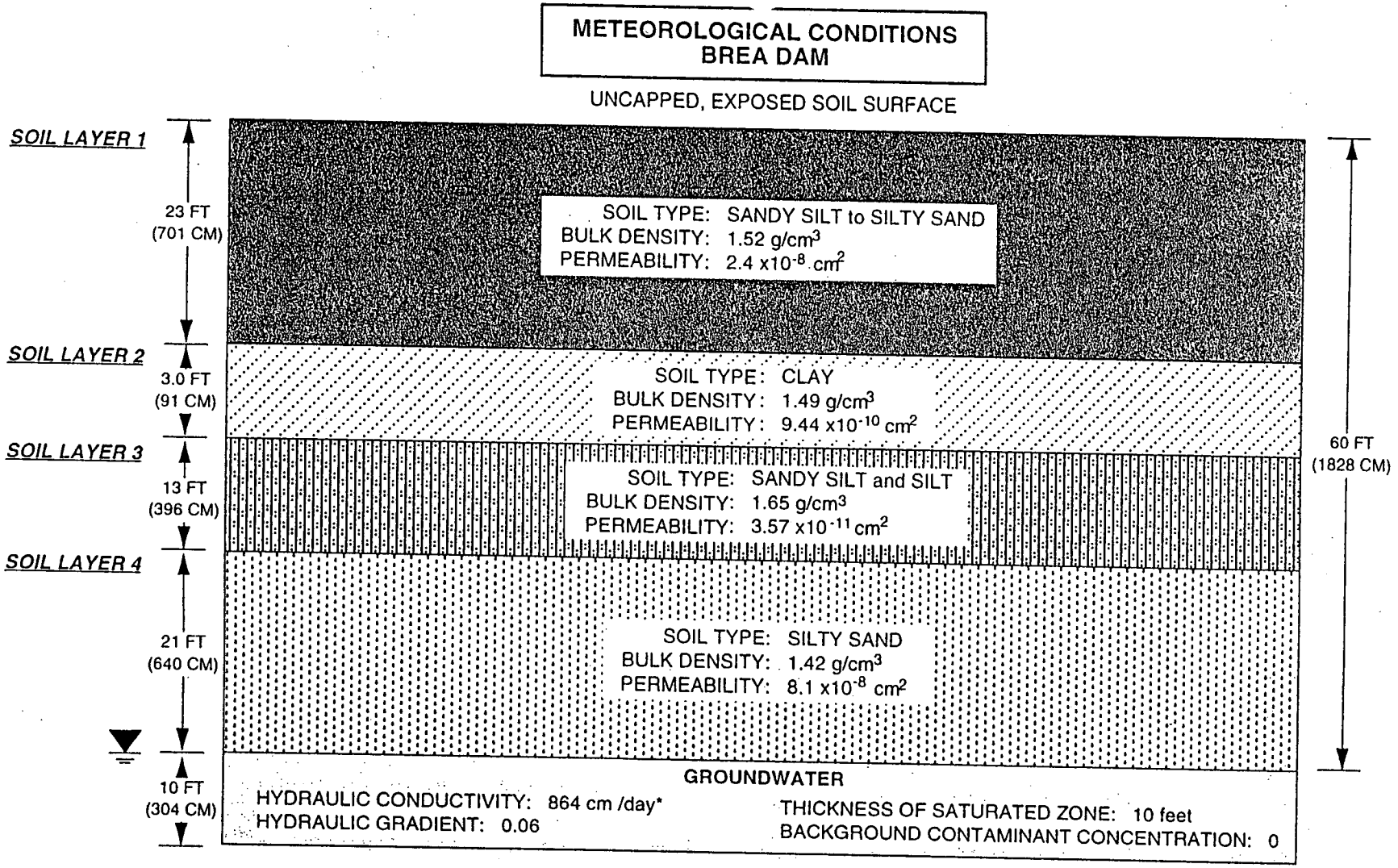
- Based on the model input parameters a maximum annual average PCE concentration in groundwater of 4.0×10^{-3} µg/ml (4.0 µg/l [ppb]) is predicted in year 128 of the simulation. The predicted annual average PCE concentration calculated in 1997 was 1.5×10^{-3} µg/ml (1.5 µg/l [ppb]) in year 119 of the simulation.

- Based on the conservative input parameters used in the current simulation and that of 1997, the highest concentrations of dissolved-phase PCE that are predicted to impact groundwater in the mixing zone are below the established maximum contaminant level (MCL) of 5 ppb.

- The current upgradient (MMW-3 sampled 8/31/00) background PCE concentration is 4.4 ppb. Predicted PCE impact from the Jalk Fee Property residual soil concentrations is slightly below the regional plume concentration.

- The current downgradient/crossgradient groundwater concentration (MMW-5 sampled 9/15/00) of PCE (390 ppb), located proximal to the highest historic onsite soil chlorinated solvent concentrations and the Continental Heat Treating facility, are in excess of the values predicted to impact the top 10 feet of the aquifer in the next 150 years. The PCE concentrations detected in MMW-5 showed increasing trends through 1994-1995 and have generally declined from the highest detected concentration of 2,200 ppb in March 1994 to the current concentration.

- To be conservative, input parameters selected for the modeling disregard abiotic transformations and chemical hydrolysis. Additionally, contaminant loading is based upon an average concentration of samples with detected concentration above 10 ppb. With consideration to the mass of impacted soil removed during remedial activities the estimated initial concentration input to the model is highly conservative.



CONCEPTUAL OVERVIEW OF SESOIL MODELING

Jalk Fee Properties
10607 Norwalk Boulevard
Santa Fe Springs, California

TRC Alton Geoscience

FIGURE F-1

35-0134 Conceptual Model

Ta 9-1

SESOIL INPUT PARAMETERS FOR PCE

Parameters	Units	Reference, Assumptions, and/or Comments	PCE	
CLIMATE AND SIMULATION TIME INPUT PARAMETERS				
			1997 Data	2000 Data
Weather Station	[-]	From SESOIL climate database	Brea Dam	Brea Dam
Number of years of climate data	[yr]	Default value	1	1
Air Temperature	[Deg C]	From SESOIL climate database, default value	Varies according to weather database	Varies according to weather database
Number of years of simulation	[yr]	Professional judgment	150	150
PARAMETERS AVERAGED ACROSS ENTIRE SOIL COLUMN TO GROUNDWATER				
Bulk Density	[g/cm3]	Site specific average of 12 measurements from HS-1 through HS 4	1.49	1.49
Disconnectedness Index	[-]	From SESOIL soils database, assumed loamy sand soil column	3.9	3.9
Effective Porosity	[fraction]	From SESOIL soils database, corresponds with loamy sand	0.28	0.28
Total organic carbon content	(%)	Site specific average of 11 measurements from HS-1 through HS 4	0.093	0.093
Freundlich Isotherm exponent, FRN	[-]	Assumes sorption isotherm is linear; Lyman, et al., 1992	1	1
CONTAMINANT PROPERTIES				
Solubility	[mg/l]	From SESOIL chemical database	240.00	240.00
Diffusion Coefficient in Air	[cm2/sec]	From SESOIL chemical database	0.00739	0.00739
Henry's Constant	[m3-atm/mol] @ 25°C	From SESOIL chemical database	0.0174	0.0174
Adsorption coeff. on organic carbon, Koc	[(ug/g-oc)/(ug/ml)]	From SESOIL chemical database	364	364
Molecular weight	[g/mol]	From SESOIL chemical database	165.83	165.83
Neutral hydrolysis (l/day), KNH	[1/day]	Parameter not included in model simulations	--	--
Base hydrolysis (l/mol/day), KBH	[l/mol/day]	Parameter not included in model simulations	--	--
Acid hydrolysis, KAH	[l/mol/day]	Parameter not included in model simulations	--	--
Liquid Phase Biodegradation Rate	[1/day]	Parameter not included in model simulations, assumed no contaminant decay	--	--
Solid Phase Biodegradation Rate	[1/day]	Parameter not included in model simulations, assumed no contaminant decay	--	--
Ligand stability const., SK	[-]	Parameter not included in model simulations	--	--
Moles ligand per model compound, B	[mol/mol]	Parameter not included in model simulations	--	--
Molecular weight of the ligand (g/mole), MWTLIG	[g/mol]	Parameter not included in model simulations	--	--
APPLICATION DATA				
Number of years	[yr]	Calculates instantaneous load for first year and zero load for the second.	2	2

SESOIL INPUT PARAMETERS FOR PCE

Parameters	Units	Reference, Assumptions, and/or Comments	PCE	
Number of soil layers	[-]	Layer 1, 23 feet of silty sand and sandy silt; Layer 2, 3 feet of clay; Layer 3, 13 feet of silt; and Layer 4, 21 feet of silty sand and sand.	4	4
Application Area	cm2	See figures of estimated lateral extent of impacted soil, used 10 ppb contour of each contaminant to estimate area of impacted soil	13,935,456	13,935,456
Loading Type	[ug/cm2/day]	For modeling purposes assumed contaminant currently in soil is the only potential source of contaminant to groundwater.	Instantaneous	Instantaneous
LAYER 1				
Description		Sandy silt to silty sand: impacted soil extends from 0 to 23 feet below grade (fbg)		
Thickness	cm	23 feet	701	701
Number of Sublayers		one	1	1
Initial contaminant concentration	[ug/g]	Average contaminant concentration of samples above 10 ug/Kg	0.212	0.994
Bulk Density	g/cm3	Site specific average of samples HS-1 through HS-4 @ 16 fbg	1.52	1.52
Loading	ug/cm2	Assumed instantaneous loading	--	--
Intrinsic Permeability	cm2	Site specific average of samples HS-1 through HS-4 @ 16 fbg	2.40E-08	2.40E-08
Organic Carbon Content, TOC	[%]	Ratio of TOC in two layers, no input for first layer	--	--
Adsorption coeff., Kd	(ug/g)/(ug/ml)	Calculated by SESOIL model using input values for Koc and TOC	--	--
LAYER 2				
Description		Clay: impacted soil extends from 23 to 26 fbg		
Thickness	cm	3 feet	91	91
Number of Sublayers		one	1	1
Initial contaminant concentration	[ug/g]	Average contaminant concentration of samples above 10 ug/Kg	0.092	0.092
Bulk Density	g/cm3	Site specific average of samples HS-2 through HS-4 @ 21 or 26 fbg	1.49	1.49
Loading	ug/cm2	Assumed instantaneous loading	--	--
Intrinsic Permeability	cm2	Site specific average of samples HS-2 through HS-4 @ 21 or 26 fbg	9.44E-10	9.44E-10
Organic Carbon Content, TOC	[%]	Ratio of average site specific organic carbon content measurements from first and second layers	0.1	0.1
Adsorption coeff., Kd	(ug/g)/(ug/ml)	Calculated by SESOIL model using input values for Koc and TOC	--	--
LAYER 3				
Description		Sandy silt and silt: impacted soil which extends from 26 to 39 fbg.		
Thickness	cm	13 feet	396	396
Number of Sublayers		one	1	1
Initial contaminant concentration	[ug/g]	Average contaminant concentration of samples above 10 ug/Kg	0.223	0.223
Bulk Density	g/cm3	Site specific average of samples HS-1 @ 36 fbg	1.65	1.65
Loading	ug/cm2	Assumed instantaneous loading	--	--

Ta 3-1
SESOIL INPUT PARAMETERS FOR PCE

Parameters	Units	Reference, Assumptions, and/or Comments	PCE	
Intrinsic Permeability	cm2	Site specific average of samples HS-1 @ 36 fbg	3.57E-11	3.57E-11
Organic Carbon Content, TOC	[%]	Ratio of average site specific organic carbon content measurements from second and third layers	0.4	0.4
Adsorption coeff., Kd	(ug/g)/(ug/ml)	Calculated by SESOIL model using input values for Koc and TOC	--	--
LAYER 4				
Description		Silty sand: impacted soil extends from 39 to 60 fbg.		
Thickness	cm	21 feet	640	640
Number of Sublayers		ten (allows conc. dist. within 1 ft. of water table)	10	10
Initial contaminant concentration	[ug/g]	Average contaminant concentration of samples above 10 ug/Kg	0.022	0.022
Bulk Density	g/cm3	Site specific average of samples HS-1 through HS-4 @ 51 or 56 fbg	1.42	1.42
Loading	ug/cm2	Assumed instantaneous loading	--	--
Intrinsic Permeability	cm2	Site specific average of samples HS-1 through HS-4 @ 51 or 56 fbb	8.10E-08	8.10E-08
Organic Carbon Content, TOC	[%]	Ratio of average site specific organic carbon content measurements from third and fourth layers	1.0	1.0
Adsorption coeff., Kd	(ug/g)/(ug/ml)	Calculated by SESOIL model using input values for Koc and TOC	--	--
GROUNDWATER PARAMETERS FOR MIXING ZONE - SUMMERS MODEL				
Saturated hydraulic conductivity	[cm2/day]	Range for silty sand (Freeze and Cherry, 1979).	864	864
Horizontal hydraulic gradient	[-]	Calculated from groundwater elevation contours from April 1996 (McLaren Hart, July 1996)	0.06	0.06
Thickness of groundwater mixing zone	[cm]	Assumes 10 feet, the approximate saturated length of a typical monitoring well screen interval.	305	305
Width of impacted zone perpendicular to groundwater flow	[cm]	Approximate width of estimated lateral extent of impacted soil perpendicular to groundwater flow	5334	5334
Target compound background concentration in groundwater	[ug/ml]	Assumed the regional groundwater is not impacted.	0	0
Output from simulation	[ug/ml]	Maximum concentration and time of impact to groundwater	**1.5×10^{-3} ug/ml at year 119**	**4.0×10^{-3} ug/ml at year 128**

Notes:

[-] = dimensionless
yr = year
sec = second
g = gram
ug = microgram
l = liter
ml = milliliter
mol = mole
atm = atmosphere
fbg = feet below grade
mg = milligram
cm = centimeter
m = meter

```
*****************************************************************************
                                                                  *****
**** 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  : JANUARY 1995                                         *****
*****                                                              *****
*****************************************************************************

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

REGION        :   BREA DAM
SOIL TYPE     :   Silty Sand
COMPOUND      :   Tetrachloroethylene
WASHLOAD DATA  :
APPLICATION AREA:   PCE Simulation

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):                    1.49
INTRINSIC PERMEABILITY (CM**2):                .000
DISCONNECTEDNESS INDEX (-):                   3.90
POROSITY (-):                        .280
ORGANIC CARBON CONTENT (%):                   .930E-01
CATION EXCHANGE CAPACITY (MILLI EQ./100G DRY SOIL):    .000
FREUNDLICH EXPONENT (-):                   1.00

  -- CHEMICAL INPUT PARAMETERS --

SOLUBILITY (UG/ML):                    240.
DIFFUSION COEFFICIENT IN AIR (CM**2/SEC):          .739E-02
HENRYS LAW CONSTANT (M**3-ATM/MOLE):               .174E-01
ADSORPTION COEFFICIENT ON ORGANIC CARBON(KOC):        364.
ADSORPTION COEFFICIENT ON SOIL (K):                .000
MOLECULAR  WEIGHT (G/MOL):                   166.
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):               .000
DEGRADATION RATE ON SOIL (/DAY):                 .000
LIGAND-POLLUTANT STABILITY CONSTANT (-):           .000
NO. MOLES LIGAND/MOLE POLLUTANT (-):               .000
LIGAND MOLECULAR WEIGHT (G/MOL):                   .000

  -- APPLICATION INPUT PARAMETERS --

  MBER OF SOIL LAYERS:                     4
```

```
YEARS TO BE SIMULATED:                          150
AREA (CM**2):                          0.140E+08
APPLICATION AREA LATITUDE (DEG.):                  33.9
SPILL (1) OR STEADY APPLICATION (0):                1
MODIFIED SUMMERS MODEL USED (1) OR NOT (0) FOR GWR. CONC.: 1
INITIAL CHEMICAL CONCENTRATIONS GIVEN (1) OR NOT GIVEN (0) 1
DEPTHS (CM):                           0.70E+03 91.    0.40E+03 0.64E+03
NUMBER OF SUBLAYERS/LAYER                          1     1     1     10
PH (CM):                               0.00    0.00    0.00    0.00
INTRINSIC PERMEABILITIES (CM**2):                  0.24E-07 0.94E-09 0.36E-10 0.81E-07
KDEL RATIOS (-):                        1.0     1.0     1.0
KDES RATIOS (-):                        1.0     1.0     1.0
OC RATIOS (-):                          1.0     1.0     1.0
CEC RATIOS (-):                         1.0     1.0     1.0
FRN RATIOS(-):                          1.0     1.0     1.0
ADS RATIOS(-):                          1.0     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)      17.720  14.110  11.390  10.610  11.390  12.170  14.110  16.280  18.610  21.890  22.110  20.940
CLOUD CVR (FRAC.)   0.350   0.400   0.500   0.500   0.450   0.500   0.500   0.450   0.400   0.300   0.250   0.250
REL. HUM.(FRAC.)    0.650   0.550   0.600   0.650   0.600   0.600   0.700   0.600   0.650   0.550   0.650   0.650
ALBEDO (-)          0.190   0.190   0.190   0.190   0.190   0.190   0.190   0.190   0.190   0.190   0.190   0.190
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)        0.530   4.020   4.390   8.100   6.020   4.900   2.540   0.450   0.090   0.030   0.260   0.680
M.TIME RAIN(DAYS)   0.100   0.400   0.430   0.520   0.410   0.340   0.280   0.110   0.029   0.014   0.010   0.081
M. STORM NO. (-)    0.550   2.000   2.410   3.500   2.700   2.970   2.000   0.390   0.130   0.090   0.090   0.320
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


   INITIAL POLLUTANT CONCENTRATIONS IN UG/ML,INPUT FOR MONTH  1 OF YEAR 1


LAYER 1:
   SUBLAYER          1
INITIAL CONC. (UG/ML)  1.48E+00


LAYER 2:
   SUBLAYER          1
INITIAL CONC. (UG/ML)  1.40E-01


LAYER 3:
   SUBLAYER          1
INITIAL CONC. (UG/ML)  3.30E-01


LAYER 4:
   SUBLAYER          1       2       3       4       5       6       7       8       9      10
INITIAL CONC. (UG/ML)  3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02 3.30E-02


   -- POLLUTANT INPUT PARAMETERS --

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

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
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URFACE 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
OL. 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

OL. 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
RNSFORMD-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
IG.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
OLATILIZATION 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

OL. INP-3 (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
RNSFORMD-3 (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
INKS-3 (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
IG.INPUT-3 (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
OLATILIZATION MULT.-3 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

OL. 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
RNSFORMD-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
INKS-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
IG.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
OLATILIZATION 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 –

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

   . 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
  NSFORMD-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 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
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 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-3 (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-3 (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-3 (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-3 (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.-3 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-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 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
1
  YEAR -  3 through 150   MONTHLY INPUT PARAMETERS
  ========   ========================

  – CLIMATIC INPUT PARAMETERS ARE SAME AS LAST YEAR

  - POLLUTANT INPUT PARAMETERS ARE SAME AS LAST YEAR
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1

–MODIFIED SUMMERS MODEL PARAMETERS –
(INPUT FOR CALCULATION OF CONTAMINANT IN GROUNDWATER)

SATURATED HYDRAULIC CONDUCTIVITY (CM/DAY): 8.64E+02
HORIZONTAL HYDRAULIC GRADIENT: 6.00E-02
THICKNESS OF SATURATED CONE (CM): 3.05E+02
WIDTH OF CONTAMINATED ZONE PERPENDICULAR TO FLOW (CM): 5.33E+03
BACKGROUND CONTAMINANT CONCENTRATION IN AQUIFER (UG/ML): 0.00E+00

1

YEAR - 1 MONTHLY RESULTS (OUTPUT)
======== ==========

– HYDROLOGIC CYCLE COMPONENTS –

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.881	8.497	9.253	11.045	11.045	10.569	9.729	9.029	8.581	8.245	7.965	7.685
MOIS. BELOW L1 (%)	7.881	8.497	9.253	11.045	11.045	10.569	9.729	9.029	8.581	8.245	7.965	7.685
PRECIPATION (CM)	0.577	4.009	4.377	8.046	6.071	4.890	2.552	0.477	0.104	0.062	0.309	0.685
NET INFILT. (CM)	0.488	3.319	3.710	6.351	4.643	4.064	2.274	0.379	0.078	0.054	0.051	0.392
EVAPOTRANS. (CM)	1.215	2.410	2.475	3.109	4.117	4.390	3.344	1.358	0.726	0.574	0.535	0.913
MOIS. RETEN (CM)	-0.640	0.938	1.152	2.730	0.000	-0.725	-1.280	-1.066	-0.682	-0.512	-0.427	-0.427
SUR. RUNOFF (CM)	0.089	0.690	0.667	1.695	1.428	0.826	0.278	0.098	0.026	0.000	0.258	0.293
GRW. RUNOFF (CM)	-0.087	-0.030	0.083	0.512	0.527	0.399	0.209	0.088	0.035	-0.009	-0.057	-0.095
YIELD (CM)	0.002	0.660	0.750	2.206	1.954	1.225	0.487	0.185	0.061	-0.001	0.201	0.199
PAU/MPA (GZU)	1.089	0.997	0.997	0.993	1.008	0.998	1.005	1.060	1.154	2.058	1.189	1.008
PA/MPA (GZ)	1.089	0.997	0.997	0.993	1.008	0.998	1.005	1.060	1.154	2.058	1.189	1.008

1 – POLLUTANT MASS INPUT TO COLUMN (UG) - INCLUDES INITIAL POLLUTANT CONCENTRATIONS –

	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	1.452E+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	1.784E+08	0.000E+00	0.000E+00	0.000E+00	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	1.830E+09	0.000E+00	0.000E+00	0.000E+00	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	2.957E+08	0.000E+00	0.000E+00	0.000E+00	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	1.683E+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	3.252E+07	2.123E+07	1.051E+07	3.352E+06	1.296E+06	6.852E+05	4.793E+05	4.714E+05	5.507E+05	6.546E+05	7.825E+05	9.035E+05
IN SOIL MOI	1.417E+09	8.680E+08	5.174E+08	2.083E+08	9.504E+07	4.691E+07	3.149E+07	3.063E+07	3.287E+07	3.623E+07	3.983E+07	4.090E+07

ADS ON SOIL 9.067E+09 5.152E+09 2.820E+09 9.513E+08 4.340E+08 2.239E+08 1.633E+08 1.711E+08 1.932E+08 2.216E+08 2.523E+08 2.684E+08
SOIL AIR 2.623E+09 1.463E+09 7.773E+08 2.401E+08 1.094E+08 5.790E+07 4.342E+07 4.687E+07 5.372E+07 6.173E+07 7.122E+07 7.711E+07

SOIL ZONE 2:

SUBLAYER 1

DIFFUSED UP 0.000E+00 2.255E+08 2.967E+08 1.362E+08 6.263E+07 3.557E+07 2.722E+07 2.961E+07 3.668E+07 4.397E+07 5.110E+07 5.620E+07
IN SOIL MOI 1.522E+08 4.254E+08 3.658E+08 1.909E+08 9.287E+07 4.903E+07 3.581E+07 3.757E+07 4.158E+07 4.538E+07 4.808E+07 4.717E+07
ADS ON SOIL 9.738E+08 2.525E+09 1.994E+09 8.717E+08 4.241E+08 2.340E+08 1.856E+08 2.099E+08 2.444E+08 2.776E+08 3.045E+08 3.096E+08
IN SOIL AIR 2.817E+08 7.171E+08 5.496E+08 2.201E+08 1.069E+08 6.051E+07 4.936E+07 5.750E+07 6.795E+07 7.733E+07 8.597E+07 8.893E+07

SOIL ZONE 3:

SUBLAYER 1

DIFFUSED UP 6.077E+05 0.000E+00 0.000E+00 1.483E+07 4.474E+07 6.205E+07 7.700E+07 8.752E+07 9.248E+07 9.485E+07 9.753E+07 1.014E+08
IN SOIL MOI 2.146E+08 6.154E+08 1.182E+09 2.036E+09 2.238E+09 2.222E+09 2.075E+09 1.927E+09 1.828E+09 1.754E+09 1.687E+09 1.625E+09
ADS ON SOIL 1.374E+09 3.653E+09 6.444E+09 9.296E+09 1.022E+10 1.060E+10 1.076E+10 1.077E+10 1.075E+10 1.073E+10 1.069E+10 1.066E+10
IN SOIL AIR 3.973E+08 1.037E+09 1.776E+09 2.347E+09 2.576E+09 2.742E+09 2.861E+09 2.950E+09 2.988E+09 2.989E+09 3.017E+09 3.063E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 3.275E+06 4.497E+06 7.565E+06 1.831E+07 2.683E+07 3.293E+07 3.421E+07 3.258E+07 3.124E+07 3.021E+07 2.934E+07 2.884E+07
ADS ON SOIL 2.096E+07 2.670E+07 4.124E+07 8.363E+07 1.225E+08 1.571E+08 1.774E+08 1.820E+08 1.836E+08 1.848E+08 1.858E+08 1.893E+08
IN SOIL AIR 6.063E+06 7.581E+06 1.137E+07 2.111E+07 3.087E+07 4.063E+07 4.716E+07 4.985E+07 5.105E+07 5.149E+07 5.246E+07 5.438E+07

SUBLAYER 2

IN SOIL MOI 3.198E+06 3.451E+06 3.813E+06 4.970E+06 5.655E+06 6.212E+06 6.246E+06 5.922E+06 5.674E+06 5.486E+06 5.324E+06 5.218E+06
ADS ON SOIL 2.046E+07 2.048E+07 2.078E+07 2.270E+07 2.582E+07 2.964E+07 3.238E+07 3.308E+07 3.335E+07 3.356E+07 3.371E+07 3.425E+07
IN SOIL AIR 5.919E+06 5.817E+06 5.728E+06 5.729E+06 6.507E+06 7.666E+06 8.611E+06 9.063E+06 9.273E+06 9.348E+06 9.519E+06 9.838E+06

SUBLAYER 3

IN SOIL MOI 3.197E+06 3.440E+06 3.740E+06 4.458E+06 4.502E+06 4.372E+06 4.089E+06 3.818E+06 3.643E+06 3.516E+06 3.402E+06 3.291E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.036E+07 2.056E+07 2.086E+07 2.120E+07 2.133E+07 2.141E+07 2.151E+07 2.154E+07 2.160E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.619E+06 5.139E+06 5.180E+06 5.395E+06 5.637E+06 5.843E+06 5.954E+06 5.992E+06 6.083E+06 6.204E+06

SUBLAYER 4

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.460E+06 4.289E+06 3.981E+06 3.711E+06 3.539E+06 3.415E+06 3.303E+06 3.190E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.037E+07 2.047E+07 2.064E+07 2.073E+07 2.080E+07 2.089E+07 2.092E+07 2.094E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.124E+06 5.132E+06 5.294E+06 5.488E+06 5.679E+06 5.783E+06 5.819E+06 5.906E+06 6.014E+06

SUBLAYER 5

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.977E+06 3.707E+06 3.535E+06 3.411E+06 3.300E+06 3.187E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.062E+07 2.071E+07 2.078E+07 2.087E+07 2.090E+07 2.092E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.290E+06 5.483E+06 5.673E+06 5.777E+06 5.813E+06 5.900E+06 6.009E+06

SUBLAYER 6

DIFFUSED UP 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 0.000E+00 3.607E+01 3.271E+02 9.904E+02 2.012E+03 3.340E+03 4.871E+03
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.978E+06 3.707E+06 3.536E+06 3.412E+06 3.302E+06 3.189E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.062E+07 2.071E+07 2.078E+07 2.088E+07 2.091E+07 2.093E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.290E+06 5.483E+06 5.673E+06 5.778E+06 5.815E+06 5.903E+06 6.013E+06

SUBLAYER 7

DIFFUSED UP 0.000E+00 0.000E+00 8.349E-01 7.285E+00 6.764E+01 3.057E+02 1.042E+03 2.679E+03 5.223E+03 8.264E+03 1.147E+04 1.452E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.444E+06 4.459E+06 4.287E+06 3.979E+06 3.709E+06 3.539E+06 3.417E+06 3.307E+06 3.195E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.036E+07 2.046E+07 2.063E+07 2.072E+07 2.080E+07 2.090E+07 2.094E+07 2.097E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.123E+06 5.131E+06 5.291E+06 5.485E+06 5.676E+06 5.783E+06 5.822E+06 5.912E+06 6.023E+06

SUBLAYER 8

FUSED UP 0.000E+00 0.000E+00 1.675E+01 1.598E+02 8.375E+02 2.783E+03 6.936E+03 1.327E+04 1.993E+04 2.529E+04 2.917E+04 3.160E+04

IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.445E+06 4.461E+06 4.290E+06 3.984E+06 3.718E+06 3.549E+06 3.428E+06 3.319E+06 3.207E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.030E+07 2.037E+07 2.048E+07 2.066E+07 2.077E+07 2.086E+07 2.097E+07 2.102E+07 2.105E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.617E+06 5.124E+06 5.133E+06 5.295E+06 5.493E+06 5.689E+06 5.801E+06 5.842E+06 5.934E+06 6.045E+06

SUBLAYER 9

DIFFUSED UP 0.000E+00 0.000E+00 3.626E+02 2.291E+03 8.641E+03 1.975E+04 3.479E+04 4.835E+04 5.504E+04 5.553E+04 5.295E+04 4.917E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.739E+06 4.449E+06 4.472E+06 4.310E+06 4.010E+06 3.745E+06 3.575E+06 3.451E+06 3.339E+06 3.223E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.038E+07 2.032E+07 2.042E+07 2.057E+07 2.079E+07 2.092E+07 2.101E+07 2.111E+07 2.114E+07 2.116E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.618E+06 5.129E+06 5.146E+06 5.319E+06 5.528E+06 5.730E+06 5.843E+06 5.882E+06 5.969E+06 6.077E+06

SUBLAYER 10

DIFFUSED UP 0.000E+00 0.000E+00 5.329E+03 3.027E+04 6.807E+04 9.901E+04 1.149E+05 1.091E+05 9.042E+04 7.026E+04 5.464E+04 4.395E+04
IN SOIL MOI 3.197E+06 3.440E+06 3.744E+06 4.495E+06 4.549E+06 4.395E+06 4.080E+06 3.796E+06 3.612E+06 3.477E+06 3.358E+06 3.238E+06
ADS ON SOIL 2.046E+07 2.042E+07 2.041E+07 2.053E+07 2.077E+07 2.097E+07 2.115E+07 2.121E+07 2.123E+07 2.127E+07 2.126E+07 2.125E+07
IN SOIL AIR 5.919E+06 5.798E+06 5.626E+06 5.181E+06 5.234E+06 5.424E+06 5.625E+06 5.809E+06 5.903E+06 5.926E+06 6.003E+06 6.104E+06

– 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 1.832E+00 1.041E+00 5.697E-01 1.922E-01 8.768E-02 4.523E-02 3.299E-02 3.456E-02 3.903E-02 4.477E-02 5.096E-02 5.423E-02
%SOLUBILITY 7.632E-01 4.337E-01 2.374E-01 8.007E-02 3.653E-02 1.885E-02 1.374E-02 1.440E-02 1.626E-02 1.865E-02 2.123E-02 2.260E-02
ADSORBED 6.200E-01 3.523E-01 1.929E-01 6.505E-02 2.968E-02 1.531E-02 1.117E-02 1.170E-02 1.321E-02 1.516E-02 1.725E-02 1.836E-02
SOIL AIR 1.328E+00 7.644E-01 4.225E-01 1.443E-01 6.573E-02 3.384E-02 2.421E-02 2.517E-02 2.819E-02 3.184E-02 3.622E-02 3.868E-02

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 1.515E+00 3.930E+00 3.103E+00 1.357E+00 6.600E-01 3.641E-01 2.889E-01 3.266E-01 3.803E-01 4.320E-01 4.738E-01 4.818E-01
%SOLUBILITY 6.314E-01 1.637E+00 1.293E+00 5.652E-01 2.750E-01 1.517E-01 1.204E-01 1.361E-01 1.585E-01 1.800E-01 1.974E-01 2.007E-01
ADSORBED 5.130E-01 1.330E+00 1.050E+00 4.592E-01 2.234E-01 1.233E-01 9.780E-02 1.106E-01 1.287E-01 1.462E-01 1.604E-01 1.631E-01
SOIL AIR 1.099E+00 2.886E+00 2.301E+00 1.019E+00 4.948E-01 2.725E-01 2.121E-01 2.379E-01 2.747E-01 3.073E-01 3.368E-01 3.436E-01

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 4.912E-01 1.306E+00 2.304E+00 3.324E+00 3.655E+00 3.792E+00 3.848E+00 3.851E+00 3.843E+00 3.837E+00 3.821E+00 3.813E+00
%SOLUBILITY 2.047E-01 5.443E-01 9.602E-01 1.385E+00 1.523E+00 1.580E+00 1.603E+00 1.604E+00 1.601E+00 1.599E+00 1.592E+00 1.589E+00
ADSORBED 1.663E-01 4.422E-01 7.801E-01 1.125E+00 1.237E+00 1.284E+00 1.303E+00 1.303E+00 1.301E+00 1.299E+00 1.294E+00 1.291E+00
SOIL AIR 3.562E-01 9.594E-01 1.709E+00 2.497E+00 2.740E+00 2.837E+00 2.825E+00 2.804E+00 2.775E+00 2.729E+00 2.716E+00 2.720E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.638E-02 5.907E-02 9.125E-02 1.850E-01 2.711E-01 3.477E-01 3.925E-01 4.027E-01 4.063E-01 4.090E-01 4.111E-01 4.189E-01
%SOLUBILITY 1.932E-02 2.461E-02 3.802E-02 7.710E-02 1.130E-01 1.449E-01 1.635E-01 1.678E-01 1.693E-01 1.704E-01 1.713E-01 1.745E-01
ADSORBED 1.570E-02 2.000E-02 3.089E-02 6.264E-02 9.177E-02 1.177E-01 1.329E-01 1.363E-01 1.375E-01 1.385E-01 1.392E-01 1.418E-01
SOIL AIR 3.363E-02 4.339E-02 6.767E-02 1.390E-01 2.032E-01 2.602E-01 2.881E-01 2.933E-01 2.934E-01 2.909E-01 2.922E-01 2.987E-01

SUBLAYER 2

MOISTURE 4.528E-02 4.533E-02 4.599E-02 5.022E-02 5.714E-02 6.559E-02 7.165E-02 7.321E-02 7.379E-02 7.425E-02 7.460E-02 7.578E-02
%SOLUBILITY 1.887E-02 1.889E-02 1.916E-02 2.092E-02 2.381E-02 2.733E-02 2.986E-02 3.050E-02 3.075E-02 3.094E-02 3.108E-02 3.158E-02
ADSORBED 1.533E-02 1.534E-02 1.557E-02 1.700E-02 1.934E-02 2.220E-02 2.426E-02 2.478E-02 2.498E-02 2.514E-02 2.525E-02 2.565E-02
SOIL AIR 3.284E-02 3.329E-02 3.410E-02 3.771E-02 4.283E-02 4.908E-02 5.260E-02 5.332E-02 5.330E-02 5.281E-02 5.303E-02 5.405E-02

SUBLAYER 3

MOISTURE 4.528E-02 4.518E-02 4.510E-02 4.504E-02 4.549E-02 4.617E-02 4.690E-02 4.719E-02 4.738E-02 4.759E-02 4.767E-02 4.779E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.877E-02 1.895E-02 1.924E-02 1.954E-02 1.966E-02 1.974E-02 1.983E-02 1.986E-02 1.991E-02
ADSORBED 1.533E-02 1.529E-02 1.527E-02 1.525E-02 1.540E-02 1.563E-02 1.588E-02 1.598E-02 1.604E-02 1.611E-02 1.614E-02 1.618E-02
SOIL AIR 3.284E-02 3.318E-02 3.345E-02 3.383E-02 3.410E-02 3.454E-02 3.443E-02 3.437E-02 3.422E-02 3.385E-02 3.389E-02 3.408E-02

SUBLAYER 4

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.507E-02 4.529E-02 4.567E-02 4.587E-02 4.602E-02 4.622E-02 4.628E-02 4.632E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.878E-02 1.887E-02 1.903E-02 1.911E-02 1.918E-02 1.926E-02 1.928E-02 1.930E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.526E-02 1.533E-02 1.546E-02 1.553E-02 1.558E-02 1.565E-02 1.567E-02 1.568E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.379E-02 3.389E-02 3.353E-02 3.341E-02 3.324E-02 3.288E-02 3.290E-02 3.304E-02

SUBLAYER 5

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.563E-02 4.582E-02 4.597E-02 4.618E-02 4.624E-02 4.629E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.901E-02 1.909E-02 1.916E-02 1.924E-02 1.927E-02 1.929E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.532E-02 1.545E-02 1.551E-02 1.556E-02 1.563E-02 1.565E-02 1.567E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.387E-02 3.349E-02 3.337E-02 3.320E-02 3.284E-02 3.287E-02 3.301E-02

SUBLAYER 6

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.563E-02 4.583E-02 4.598E-02 4.619E-02 4.626E-02 4.632E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.901E-02 1.909E-02 1.916E-02 1.925E-02 1.928E-02 1.930E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.532E-02 1.545E-02 1.551E-02 1.557E-02 1.564E-02 1.566E-02 1.568E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.387E-02 3.349E-02 3.338E-02 3.321E-02 3.285E-02 3.289E-02 3.303E-02

SUBLAYER 7

MOISTURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.506E-02 4.527E-02 4.564E-02 4.585E-02 4.602E-02 4.625E-02 4.633E-02 4.640E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.877E-02 1.886E-02 1.902E-02 1.910E-02 1.918E-02 1.927E-02 1.931E-02 1.933E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.525E-02 1.533E-02 1.545E-02 1.552E-02 1.558E-02 1.566E-02 1.569E-02 1.571E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.378E-02 3.388E-02 3.350E-02 3.339E-02 3.324E-02 3.289E-02 3.294E-02 3.309E-02

SUBLAYER 8

STURE 4.528E-02 4.518E-02 4.509E-02 4.491E-02 4.507E-02 4.531E-02 4.571E-02 4.595E-02 4.616E-02 4.640E-02 4.650E-02 4.657E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.871E-02 1.878E-02 1.888E-02 1.904E-02 1.915E-02 1.923E-02 1.934E-02 1.938E-02 1.940E-02
ADSORBED 1.533E-02 1.529E-02 1.526E-02 1.520E-02 1.526E-02 1.534E-02 1.547E-02 1.556E-02 1.563E-02 1.571E-02 1.574E-02 1.576E-02
SOIL AIR 3.284E-02 3.318E-02 3.344E-02 3.373E-02 3.379E-02 3.390E-02 3.355E-02 3.347E-02 3.334E-02 3.301E-02 3.305E-02 3.321E-02

SUBLAYER 9

MOISTURE 4.528E-02 4.518E-02 4.510E-02 4.495E-02 4.519E-02 4.552E-02 4.600E-02 4.629E-02 4.649E-02 4.672E-02 4.678E-02 4.681E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.879E-02 1.873E-02 1.883E-02 1.897E-02 1.917E-02 1.929E-02 1.937E-02 1.947E-02 1.949E-02 1.950E-02
ADSORBED 1.533E-02 1.529E-02 1.527E-02 1.522E-02 1.530E-02 1.541E-02 1.557E-02 1.567E-02 1.574E-02 1.581E-02 1.584E-02 1.585E-02
SOIL AIR 3.284E-02 3.318E-02 3.345E-02 3.376E-02 3.388E-02 3.406E-02 3.377E-02 3.371E-02 3.358E-02 3.323E-02 3.325E-02 3.339E-02

SUBLAYER 10

MOISTURE 4.528E-02 4.518E-02 4.516E-02 4.542E-02 4.596E-02 4.641E-02 4.681E-02 4.692E-02 4.698E-02 4.707E-02 4.705E-02 4.702E-02
%SOLUBILITY 1.887E-02 1.882E-02 1.882E-02 1.892E-02 1.915E-02 1.934E-02 1.950E-02 1.955E-02 1.957E-02 1.961E-02 1.960E-02 1.959E-02
ADSORBED 1.533E-02 1.529E-02 1.529E-02 1.537E-02 1.556E-02 1.571E-02 1.584E-02 1.588E-02 1.590E-02 1.593E-02 1.593E-02 1.592E-02
SOIL AIR 3.284E-02 3.318E-02 3.349E-02 3.411E-02 3.446E-02 3.473E-02 3.436E-02 3.418E-02 3.393E-02 3.348E-02 3.344E-02 3.353E-02

POL DEP CM 1.796E+03 1.797E+03 1.797E+03 1.799E+03 1.800E+03 1.801E+03 1.801E+03 1.802E+03 1.802E+03 1.802E+03 1.802E+03 1.802E+03
1 YEAR - 1 ANNUAL SUMMARY REPORT
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– TOTAL INPUTS (UG) –

UPPER SOIL ZONE	1.452E+10
SOIL ZONE 2	1.784E+08
SOIL ZONE 3	1.830E+09
LOWER SOIL ZONE	2.957E+08

– HYDROLOGIC CYCLE COMPONENTS –

AVERAGE SOIL MOISTURE ZONE 1 (%) 9.127
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 9.127
TOTAL PRECIPITATION (CM) 32.160
TOTAL INFILTRATION (CM) 25.804
TOTAL EVAPOTRANSPIRATION (CM) 25.167
TOTAL SURFACE RUNOFF (CM) 6.347
TOTAL GRW RUNOFF (CM) 1.575
TOTAL MOISTURE RETENTION (CM) -0.938
TOTAL YIELD (CM) 7.930
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 7.343E+07

SOIL ZONE 2:

SUBLAYER 1

TOTAL DIFFUSED (UP) 1.001E+09

SOIL ZONE 3:

SUBLAYER 1

TOTAL DIFFUSED (UP) 6.730E+08

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

TOTAL DIFFUSED (UP) 1.158E+04

SUBLAYER 7

TOTAL DIFFUSED (UP) 4.358E+04

SUBLAYER 8

TOTAL DIFFUSED (UP) 1.300E+05

SUBLAYER 9

TOTAL DIFFUSED (UP) 3.269E+05

SUBLAYER 10

TOTAL DIFFUSED (UP) 6.860E+05

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.353E-01
ADSORBED SOIL (UG/G) 1.135E-01
SOIL AIR (UG/ML) 2.453E-01

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.109E+00
ADSORBED SOIL (UG/G) 3.755E-01
SOIL AIR (UG/ML) 8.154E-01

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.157E+00
ADSORBED SOIL (UG/G) 1.069E+00
SOIL AIR (UG/ML) 2.306E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.867E-01
ADSORBED SOIL (UG/G) 9.707E-02
SOIL AIR (UG/ML) 2.086E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.274E-02
ADSORBED SOIL (UG/G) 2.124E-02
SOIL AIR (UG/ML) 4.575E-02

SUBLAYER 3

SOIL MOISTURE (UG/ML) 4.640E-02
ADSORBED SOIL (UG/G) 1.571E-02
SOIL AIR (UG/ML) 3.390E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 4.560E-02
ADSORBED SOIL (UG/G) 1.544E-02
SOIL AIR (UG/ML) 3.332E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.558E-02
ADSORBED SOIL (UG/G) 1.543E-02
SOIL AIR (UG/ML) 3.330E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.558E-02
ADSORBED SOIL (UG/G) 1.543E-02
SOIL AIR (UG/ML) 3.331E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.561E-02

ADSORBED SOIL (UG/G) 1.544E-02
SOIL AIR (UG/ML) 3.332E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.568E-02
ADSORBED SOIL (UG/G) 1.546E-02
SOIL AIR (UG/ML) 3.338E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.586E-02
ADSORBED SOIL (UG/G) 1.552E-02
SOIL AIR (UG/ML) 3.351E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.627E-02
ADSORBED SOIL (UG/G) 1.566E-02
SOIL AIR (UG/ML) 3.381E-02

MAX. POLL. DEPTH (M) 1.802E+01

1

YEAR - 2 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 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI 3.536E+07 2.150E+07 1.234E+07 4.764E+06 2.067E+06 9.521E+05 5.840E+05 5.034E+05 4.727E+05 4.514E+05 4.268E+05 3.783E+05
ADS ON SOIL 2.409E+08 1.329E+08 6.916E+07 2.215E+07 9.559E+06 4.580E+06 3.045E+06 2.821E+06 2.787E+06 2.771E+06 2.703E+06 2.483E+06
IN SOIL AIR 7.132E+07 3.838E+07 1.932E+07 5.656E+06 2.429E+06 1.190E+06 8.122E+05 7.739E+05 7.762E+05 7.730E+05 7.631E+05 7.133E+05

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 4.094E+07 2.500E+07 1.437E+07 5.494E+06 2.365E+06 1.087E+06 6.669E+05 5.737E+05 5.381E+05 5.141E+05 4.864E+05 4.320E+05
ADS ON SOIL 2.789E+08 1.545E+08 8.053E+07 2.554E+07 1.094E+07 5.231E+06 3.477E+06 3.215E+06 3.173E+06 3.156E+06 3.080E+06 2.835E+06
IN SOIL AIR 8.257E+07 4.463E+07 2.250E+07 6.523E+06 2.779E+06 1.359E+06 9.275E+05 8.820E+05 8.837E+05 8.803E+05 8.696E+05 8.145E+05

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 1.570E+09 1.754E+09 1.943E+09 2.331E+09 2.339E+09 2.247E+09 2.082E+09 1.944E+09 1.853E+09 1.788E+09 1.735E+09 1.674E+09
ADS ON SOIL 1.069E+10 1.084E+10 1.089E+10 1.084E+10 1.082E+10 1.081E+10 1.086E+10 1.090E+10 1.093E+10 1.098E+10 1.099E+10 1.099E+10
IN SOIL AIR 3.167E+09 3.131E+09 3.042E+09 2.767E+09 2.749E+09 2.808E+09 2.896E+09 2.989E+09 3.044E+09 3.062E+09 3.102E+09 3.157E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.838E+07 3.498E+07 4.309E+07 6.173E+07 6.958E+07 7.306E+07 7.086E+07 6.679E+07 6.380E+07 6.161E+07 5.992E+07 5.829E+07
ADS ON SOIL 1.933E+08 2.162E+08 2.415E+08 2.870E+08 3.218E+08 3.515E+08 3.695E+08 3.743E+08 3.762E+08 3.782E+08 3.795E+08 3.825E+08
IN SOIL AIR 5.723E+07 6.245E+07 6.746E+07 7.328E+07 8.176E+07 9.132E+07 9.855E+07 1.027E+08 1.048E+08 1.055E+08 1.071E+08 1.099E+08

SUBLAYER 2

IN SOIL MOI 5.118E+06 6.246E+06 7.729E+06 1.155E+07 1.365E+07 1.501E+07 1.494E+07 1.417E+07 1.355E+07 1.310E+07 1.276E+07 1.247E+07
ADS ON SOIL 3.486E+07 3.860E+07 4.331E+07 5.368E+07 6.314E+07 7.219E+07 7.792E+07 7.940E+07 7.993E+07 8.039E+07 8.080E+07 8.185E+07
IN SOIL AIR 1.032E+07 1.115E+07 1.210E+07 1.371E+07 1.604E+07 1.876E+07 2.078E+07 2.178E+07 2.226E+07 2.243E+07 2.281E+07 2.351E+07

SUBLAYER 3

IN SOIL MOI 3.172E+06 3.536E+06 3.968E+06 5.008E+06 5.309E+06 5.390E+06 5.167E+06 4.862E+06 4.643E+06 4.483E+06 4.358E+06 4.232E+06
ADS ON SOIL 2.161E+07 2.185E+07 2.224E+07 2.328E+07 2.455E+07 2.593E+07 2.694E+07 2.724E+07 2.738E+07 2.752E+07 2.760E+07 2.778E+07
IN SOIL AIR 6.398E+06 6.313E+06 6.211E+06 5.946E+06 6.238E+06 6.738E+06 7.186E+06 7.474E+06 7.624E+06 7.676E+06 7.792E+06 7.979E+06

SUBLAYER 4

N SOIL MOI 3.068E+06 3.374E+06 3.718E+06 4.479E+06 4.537E+06 4.405E+06 4.110E+06 3.844E+06 3.666E+06 3.537E+06 3.434E+06 3.318E+06
ADS ON SOIL 2.090E+07 2.086E+07 2.083E+07 2.082E+07 2.098E+07 2.119E+07 2.143E+07 2.154E+07 2.162E+07 2.171E+07 2.174E+07 2.178E+07
N SOIL AIR 6.188E+06 6.025E+06 5.820E+06 5.317E+06 5.331E+06 5.506E+06 5.717E+06 5.910E+06 6.020E+06 6.057E+06 6.139E+06 6.256E+06

SUBLAYER 5

IN SOIL MOI 3.066E+06 3.369E+06 3.708E+06 4.451E+06 4.489E+06 4.337E+06 4.033E+06 3.769E+06 3.593E+06 3.467E+06 3.365E+06 3.249E+06
ADS ON SOIL 2.088E+07 2.082E+07 2.078E+07 2.069E+07 2.076E+07 2.086E+07 2.103E+07 2.112E+07 2.119E+07 2.128E+07 2.131E+07 2.133E+07
N SOIL AIR 6.183E+06 6.015E+06 5.804E+06 5.284E+06 5.275E+06 5.421E+06 5.610E+06 5.794E+06 5.901E+06 5.937E+06 6.016E+06 6.126E+06

SUBLAYER 6

N SOIL MOI 3.068E+06 3.371E+06 3.710E+06 4.453E+06 4.490E+06 4.336E+06 4.032E+06 3.767E+06 3.592E+06 3.465E+06 3.363E+06 3.248E+06
DS ON SOIL 2.089E+07 2.084E+07 2.079E+07 2.070E+07 2.077E+07 2.086E+07 2.102E+07 2.111E+07 2.118E+07 2.127E+07 2.130E+07 2.132E+07
IN SOIL AIR 6.187E+06 6.019E+06 5.807E+06 5.286E+06 5.276E+06 5.420E+06 5.607E+06 5.791E+06 5.898E+06 5.934E+06 6.013E+06 6.123E+06

SUBLAYER 7

N SOIL MOI 3.073E+06 3.377E+06 3.717E+06 4.460E+06 4.497E+06 4.343E+06 4.038E+06 3.774E+06 3.598E+06 3.471E+06 3.369E+06 3.253E+06
ON SOIL 2.093E+07 2.087E+07 2.083E+07 2.074E+07 2.080E+07 2.089E+07 2.106E+07 2.115E+07 2.122E+07 2.131E+07 2.133E+07 2.135E+07
OIL AIR 6.198E+06 6.029E+06 5.818E+06 5.295E+06 5.285E+06 5.429E+06 5.617E+06 5.801E+06 5.908E+06 5.944E+06 6.023E+06 6.133E+06

SUBLAYER 8

IN SOIL MOI 3.084E+06 3.389E+06 3.730E+06 4.476E+06 4.513E+06 4.359E+06 4.053E+06 3.787E+06 3.610E+06 3.483E+06 3.381E+06 3.265E+06
ADS ON SOIL 2.101E+07 2.095E+07 2.090E+07 2.081E+07 2.088E+07 2.097E+07 2.113E+07 2.122E+07 2.129E+07 2.138E+07 2.141E+07 2.143E+07
IN SOIL AIR 6.220E+06 6.051E+06 5.839E+06 5.314E+06 5.304E+06 5.448E+06 5.636E+06 5.821E+06 5.928E+06 5.965E+06 6.044E+06 6.155E+06

SUBLAYER 9

IN SOIL MOI 3.100E+06 3.407E+06 3.750E+06 4.500E+06 4.537E+06 4.381E+06 4.074E+06 3.807E+06 3.629E+06 3.502E+06 3.398E+06 3.281E+06
ADS ON SOIL 2.112E+07 2.106E+07 2.101E+07 2.092E+07 2.098E+07 2.108E+07 2.124E+07 2.133E+07 2.140E+07 2.149E+07 2.152E+07 2.154E+07
IN SOIL AIR 6.253E+06 6.083E+06 5.869E+06 5.342E+06 5.332E+06 5.477E+06 5.666E+06 5.852E+06 5.959E+06 5.996E+06 6.076E+06 6.187E+06

SUBLAYER 10

IN SOIL MOI 3.114E+06 3.422E+06 3.769E+06 4.566E+06 4.651E+06 4.526E+06 4.225E+06 3.954E+06 3.772E+06 3.640E+06 3.533E+06 3.411E+06
ADS ON SOIL 2.121E+07 2.115E+07 2.112E+07 2.123E+07 2.151E+07 2.177E+07 2.203E+07 2.216E+07 2.225E+07 2.234E+07 2.237E+07 2.239E+07
IN SOIL AIR 6.281E+06 6.110E+06 5.900E+06 5.421E+06 5.465E+06 5.657E+06 5.876E+06 6.079E+06 6.195E+06 6.233E+06 6.316E+06 6.431E+06

-- 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 4.866E-02 2.684E-02 1.397E-02 4.474E-03 1.931E-03 9.252E-04 6.151E-04 5.699E-04 5.631E-04 5.598E-04 5.460E-04 5.016E-04
%SOLUBILITY 2.027E-02 1.118E-02 5.821E-03 1.864E-03 8.046E-04 3.855E-04 2.563E-04 2.375E-04 2.346E-04 2.332E-04 2.275E-04 2.090E-04
ADSORBED 1.647E-02 9.086E-03 4.729E-03 1.515E-03 6.537E-04 3.132E-04 2.082E-04 1.929E-04 1.906E-04 1.895E-04 1.848E-04 1.698E-04
SOIL AIR 3.529E-02 1.971E-02 1.036E-02 3.360E-03 1.448E-03 6.923E-04 4.516E-04 4.151E-04 4.067E-04 3.982E-04 3.881E-04 3.578E-04

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 4.340E-01 2.404E-01 1.253E-01 3.975E-02 1.702E-02 8.141E-03 5.411E-03 5.003E-03 4.939E-03 4.911E-03 4.793E-03 4.412E-03
%SOLUBILITY 1.808E-01 1.002E-01 5.222E-02 1.656E-02 7.093E-03 3.392E-03 2.255E-03 2.085E-03 2.058E-03 2.046E-03 1.997E-03 1.839E-03
ADSORBED 1.469E-01 8.139E-02 4.242E-02 1.346E-02 5.763E-03 2.756E-03 1.832E-03 1.694E-03 1.672E-03 1.662E-03 1.622E-03 1.494E-03
SOIL AIR 3.147E-01 1.766E-01 9.294E-02 2.985E-02 1.276E-02 6.092E-03 3.972E-03 3.644E-03 3.567E-03 3.493E-03 3.407E-03 3.147E-03

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.825E+00 3.876E+00 3.894E+00 3.875E+00 3.869E+00 3.865E+00 3.883E+00 3.896E+00 3.909E+00 3.925E+00 3.929E+00 3.930E+00
%SOLUBILITY 1.594E+00 1.615E+00 1.623E+00 1.615E+00 1.612E+00 1.610E+00 1.618E+00 1.623E+00 1.629E+00 1.636E+00 1.637E+00 1.637E+00
ADSORBED 1.295E+00 1.312E+00 1.318E+00 1.312E+00 1.310E+00 1.308E+00 1.314E+00 1.319E+00 1.323E+00 1.329E+00 1.330E+00 1.330E+00
SOIL AIR 2.773E+00 2.847E+00 2.888E+00 2.910E+00 2.900E+00 2.892E+00 2.850E+00 2.838E+00 2.823E+00 2.792E+00 2.793E+00 2.803E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.277E-01 4.784E-01 5.343E-01 6.350E-01 7.121E-01 7.777E-01 8.176E-01 8.281E-01 8.325E-01 8.368E-01 8.397E-01 8.465E-01
%SOLUBILITY 1.782E-01 1.993E-01 2.226E-01 2.646E-01 2.967E-01 3.240E-01 3.407E-01 3.451E-01 3.469E-01 3.487E-01 3.499E-01 3.527E-01
ADSORBED 1.448E-01 1.619E-01 1.809E-01 2.150E-01 2.411E-01 2.633E-01 2.768E-01 2.803E-01 2.818E-01 2.833E-01 2.842E-01 2.865E-01
SOIL AIR 3.102E-01 3.513E-01 3.963E-01 4.769E-01 5.338E-01 5.819E-01 6.002E-01 6.031E-01 6.012E-01 5.952E-01 5.968E-01 6.037E-01

SUBLAYER 2

MOISTURE 7.714E-02 8.541E-02 9.584E-02 1.188E-01 1.397E-01 1.597E-01 1.724E-01 1.757E-01 1.769E-01 1.779E-01 1.788E-01 1.811E-01
%SOLUBILITY 3.214E-02 3.559E-02 3.993E-02 4.949E-02 5.821E-02 6.655E-02 7.184E-02 7.321E-02 7.369E-02 7.412E-02 7.449E-02 7.546E-02
ADSORBED 2.611E-02 2.891E-02 3.244E-02 4.020E-02 4.729E-02 5.407E-02 5.837E-02 5.948E-02 5.987E-02 6.022E-02 6.052E-02 6.131E-02
SOIL AIR 5.594E-02 6.273E-02 7.107E-02 8.919E-02 1.047E-01 1.195E-01 1.266E-01 1.280E-01 1.277E-01 1.265E-01 1.271E-01 1.292E-01

SUBLAYER 3

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MOISTURE    4.815E-02 4.827E-02 4.852E-02 4.919E-02 5.023E-02 5.136E-02 5.234E-02 5.270E-02 5.291E-02 5.315E-02 5.325E-02 5.340E-02
%SOLUBILITY 2.006E-02 2.011E-02 2.022E-02 2.049E-02 2.093E-02 2.140E-02 2.181E-02 2.196E-02 2.204E-02 2.214E-02 2.219E-02 2.225E-02
ADSORBED    1.630E-02 1.634E-02 1.642E-02 1.665E-02 1.700E-02 1.739E-02 1.772E-02 1.784E-02 1.791E-02 1.799E-02 1.802E-02 1.808E-02
SOIL AIR    3.491E-02 3.545E-02 3.598E-02 3.694E-02 3.765E-02 3.843E-02 3.842E-02 3.838E-02 3.821E-02 3.780E-02 3.785E-02 3.808E-02

      SUBLAYER 5

MOISTURE    4.711E-02 4.699E-02 4.692E-02 4.679E-02 4.701E-02 4.731E-02 4.774E-02 4.796E-02 4.812E-02 4.833E-02 4.839E-02 4.844E-02
%SOLUBILITY 1.963E-02 1.958E-02 1.955E-02 1.949E-02 1.959E-02 1.971E-02 1.989E-02 1.998E-02 2.005E-02 2.014E-02 2.016E-02 2.018E-02
ADSORBED    1.595E-02 1.591E-02 1.588E-02 1.584E-02 1.592E-02 1.602E-02 1.616E-02 1.623E-02 1.629E-02 1.636E-02 1.638E-02 1.640E-02
SOIL AIR    3.416E-02 3.451E-02 3.479E-02 3.514E-02 3.524E-02 3.540E-02 3.505E-02 3.493E-02 3.475E-02 3.438E-02 3.440E-02 3.455E-02

      SUBLAYER 6

MOISTURE    4.708E-02 4.695E-02 4.685E-02 4.665E-02 4.680E-02 4.702E-02 4.739E-02 4.759E-02 4.775E-02 4.795E-02 4.801E-02 4.805E-02
%SOLUBILITY 1.962E-02 1.956E-02 1.952E-02 1.944E-02 1.950E-02 1.959E-02 1.975E-02 1.983E-02 1.989E-02 1.998E-02 2.000E-02 2.002E-02
ADSORBED    1.594E-02 1.589E-02 1.586E-02 1.579E-02 1.584E-02 1.592E-02 1.604E-02 1.611E-02 1.616E-02 1.623E-02 1.625E-02 1.627E-02
SOIL AIR    3.414E-02 3.448E-02 3.474E-02 3.503E-02 3.508E-02 3.518E-02 3.479E-02 3.466E-02 3.448E-02 3.411E-02 3.413E-02 3.427E-02

      SUBLAYER 7

MOISTURE    4.716E-02 4.702E-02 4.692E-02 4.672E-02 4.686E-02 4.707E-02 4.744E-02 4.764E-02 4.780E-02 4.800E-02 4.806E-02 4.810E-02
%SOLUBILITY 1.965E-02 1.959E-02 1.955E-02 1.947E-02 1.953E-02 1.961E-02 1.977E-02 1.985E-02 1.992E-02 2.000E-02 2.003E-02 2.004E-02
ADSORBED    1.596E-02 1.592E-02 1.588E-02 1.581E-02 1.586E-02 1.594E-02 1.606E-02 1.613E-02 1.618E-02 1.625E-02 1.627E-02 1.628E-02
SOIL AIR    3.420E-02 3.454E-02 3.480E-02 3.509E-02 3.513E-02 3.522E-02 3.483E-02 3.470E-02 3.452E-02 3.414E-02 3.416E-02 3.431E-02

      SUBLAYER 8

MOISTURE    4.732E-02 4.719E-02 4.708E-02 4.688E-02 4.702E-02 4.723E-02 4.760E-02 4.780E-02 4.796E-02 4.817E-02 4.822E-02 4.826E-02
%SOLUBILITY 1.972E-02 1.966E-02 1.962E-02 1.953E-02 1.959E-02 1.968E-02 1.983E-02 1.992E-02 1.998E-02 2.007E-02 2.009E-02 2.011E-02
ADSORBED    1.602E-02 1.597E-02 1.594E-02 1.587E-02 1.592E-02 1.599E-02 1.611E-02 1.618E-02 1.624E-02 1.630E-02 1.633E-02 1.634E-02
SOIL AIR    3.432E-02 3.466E-02 3.492E-02 3.521E-02 3.525E-02 3.534E-02 3.494E-02 3.481E-02 3.464E-02 3.426E-02 3.428E-02 3.442E-02

      SUBLAYER 9

MOISTURE    4.757E-02 4.743E-02 4.733E-02 4.712E-02 4.727E-02 4.748E-02 4.785E-02 4.805E-02 4.821E-02 4.841E-02 4.847E-02 4.851E-02
%SOLUBILITY 1.982E-02 1.976E-02 1.972E-02 1.963E-02 1.969E-02 1.978E-02 1.994E-02 2.002E-02 2.009E-02 2.017E-02 2.020E-02 2.021E-02
ADSORBED    1.610E-02 1.606E-02 1.602E-02 1.595E-02 1.600E-02 1.607E-02 1.620E-02 1.626E-02 1.632E-02 1.639E-02 1.641E-02 1.642E-02
SOIL AIR    3.450E-02 3.484E-02 3.510E-02 3.539E-02 3.543E-02 3.553E-02 3.512E-02 3.499E-02 3.482E-02 3.443E-02 3.446E-02 3.460E-02

      SUBLAYER 10

MOISTURE    4.945E-02 4.930E-02 4.923E-02 4.946E-02 5.009E-02 5.068E-02 5.127E-02 5.157E-02 5.177E-02 5.200E-02 5.206E-02 5.210E-02
%SOLUBILITY 2.060E-02 2.054E-02 2.051E-02 2.061E-02 2.087E-02 2.112E-02 2.136E-02 2.149E-02 2.157E-02 2.166E-02 2.169E-02 2.171E-02
ADSORBED    1.674E-02 1.669E-02 1.666E-02 1.674E-02 1.696E-02 1.716E-02 1.736E-02 1.746E-02 1.753E-02 1.760E-02 1.762E-02 1.764E-02
SOIL AIR    3.586E-02 3.621E-02 3.651E-02 3.714E-02 3.755E-02 3.792E-02 3.764E-02 3.756E-02 3.739E-02 3.698E-02 3.700E-02 3.716E-02

POL DEP CM  1.807E+03 1.808E+03 1.808E+03 1.810E+03 1.811E+03 1.812E+03 1.812E+03 1.813E+03 1.813E+03 1.813E+03 1.813E+03 1.813E+03
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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)    8.992
TOTAL PRECIPITATION (CM)          32.338
TOTAL INFILTRATION (CM)           25.841
TOTAL EVAPOTRANSPIRATION (CM)     24.575
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TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.683E-05
ADSORBED SOIL (UG/G) 2.601E-05
SOIL AIR (UG/ML) 5.621E-05

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.804E-04
ADSORBED SOIL (UG/G) 2.303E-04
SOIL AIR (UG/ML) 4.978E-04

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.833E+00
ADSORBED SOIL (UG/G) 1.297E+00
SOIL AIR (UG/ML) 2.801E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.080E+00
ADSORBED SOIL (UG/G) 3.655E-01
SOIL AIR (UG/ML) 7.885E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.867E-01
ADSORBED SOIL (UG/G) 9.705E-02
SOIL AIR (UG/ML) 2.092E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 8.341E-02
ADSORBED SOIL (UG/G) 2.823E-02
SOIL AIR (UG/ML) 6.087E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 5.112E-02
ADSORBED SOIL (UG/G) 1.731E-02
SOIL AIR (UG/ML) 3.734E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.759E-02
ADSORBED SOIL (UG/G) 1.611E-02
SOIL AIR (UG/ML) 3.478E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.734E-02
ADSORBED SOIL (UG/G) 1.603E-02
SOIL AIR (UG/ML) 3.459E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.740E-02
ADSORBED SOIL (UG/G) 1.605E-02
SOIL AIR (UG/ML) 3.464E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.756E-02
ADSORBED SOIL (UG/G) 1.610E-02
SOIL AIR (UG/ML) 3.475E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.781E-02
ADSORBED SOIL (UG/G) 1.618E-02
SOIL AIR (UG/ML) 3.493E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.075E-02
ADSORBED SOIL (UG/G) 1.718E-02
SOIL AIR (UG/ML) 3.708E-02

MAX. POLL. DEPTH (M) 1.813E+01

1

YEAR - 4 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 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.995E+03	1.821E+03	1.045E+03	4.032E+02	1.748E+02	8.026E+01	4.908E+01	4.198E+01	3.917E+01	3.774E+01	3.545E+01	3.130E+01
ADS ON SOIL	2.040E+04	1.125E+04	5.856E+03	1.874E+03	8.084E+02	3.861E+02	2.559E+02	2.352E+02	2.310E+02	2.317E+02	2.245E+02	2.054E+02
IN SOIL AIR	6.041E+03	3.250E+03	1.636E+03	4.787E+02	2.054E+02	1.003E+02	6.826E+01	6.453E+01	6.432E+01	6.463E+01	6.338E+01	5.901E+01

SOIL ZONE 2:

SUBLAYER 1

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OIL MOI 3.428E+03 2.102E+03 1.212E+03 4.643E+02 1.998E+02 9.166E+01 5.596E+01 4.795E+01 4.489E+01 4.324E+01 4.055E+01 3.623E+01
ON SOIL 2.335E+04 1.299E+04 6.792E+03 2.158E+03 9.241E+02 4.410E+02 2.918E+02 2.687E+02 2.648E+02 2.654E+02 2.568E+02 2.378E+02
SOIL AIR 6.914E+03 3.753E+03 1.897E+03 5.512E+02 2.348E+02 1.146E+02 7.783E+01 7.371E+01 7.372E+01 7.404E+01 7.250E+01 6.830E+01

SOIL ZONE 3:

SUBLAYER 1

N SOIL MOI 1.573E+09 1.720E+09 1.882E+09 2.237E+09 2.239E+09 2.148E+09 1.990E+09 1.859E+09 1.772E+09 1.709E+09 1.659E+09 1.600E+09
ADS ON SOIL 1.072E+10 1.063E+10 1.055E+10 1.040E+10 1.036E+10 1.033E+10 1.038E+10 1.041E+10 1.045E+10 1.049E+10 1.050E+10 1.050E+10
N SOIL AIR 3.173E+09 3.071E+09 2.946E+09 2.655E+09 2.631E+09 2.685E+09 2.768E+09 2.857E+09 2.909E+09 2.927E+09 2.965E+09 3.017E+09

LOWER SOIL ZONE:

SUBLAYER 1

N SOIL MOI 7.923E+07 8.942E+07 1.012E+08 1.274E+08 1.327E+08 1.316E+08 1.240E+08 1.162E+08 1.109E+08 1.070E+08 1.039E+08 1.006E+08
ADS ON SOIL 5.397E+08 5.526E+08 5.670E+08 5.922E+08 6.139E+08 6.330E+08 6.468E+08 6.513E+08 6.539E+08 6.569E+08 6.581E+08 6.602E+08
N SOIL AIR 1.598E+08 1.596E+08 1.584E+08 1.512E+08 1.560E+08 1.645E+08 1.725E+08 1.787E+08 1.821E+08 1.832E+08 1.858E+08 1.897E+08

SUBLAYER 2

IN SOIL MOI 2.269E+07 2.637E+07 3.080E+07 4.113E+07 4.477E+07 4.601E+07 4.421E+07 4.161E+07 3.973E+07 3.836E+07 3.730E+07 3.623E+07
DS ON SOIL 1.546E+08 1.630E+08 1.726E+08 1.912E+08 2.071E+08 2.213E+08 2.306E+08 2.332E+08 2.343E+08 2.355E+08 2.362E+08 2.378E+08
N SOIL AIR 4.577E+07 4.708E+07 4.822E+07 4.884E+07 5.261E+07 5.751E+07 6.149E+07 6.396E+07 6.524E+07 6.569E+07 6.669E+07 6.831E+07

SUBLAYER 3

N SOIL MOI 6.392E+06 7.399E+06 8.633E+06 1.161E+07 1.278E+07 1.329E+07 1.286E+07 1.213E+07 1.159E+07 1.119E+07 1.088E+07 1.058E+07
DS ON SOIL 4.354E-07 4.573E+07 4.838E+07 5.398E+07 5.909E+07 6.391E+07 6.707E+07 6.796E+07 6.833E+07 6.868E+07 6.892E+07 6.946E+07
IN SOIL AIR 1.289E+07 1.321E+07 1.351E+07 1.378E+07 1.501E+07 1.661E+07 1.789E+07 1.864E+07 1.903E+07 1.916E+07 1.946E+07 1.995E+07

SUBLAYER 4

OIL MOI 3.546E+06 3.955E+06 4.433E+06 5.543E+06 5.796E+06 5.790E+06 5.491E+06 5.155E+06 4.920E+06 4.749E+06 4.614E+06 4.471E+06
ADS ON SOIL 2.415E+07 2.445E+07 2.484E+07 2.577E+07 2.681E+07 2.785E+07 2.863E+07 2.889E+07 2.902E+07 2.915E+07 2.922E+07 2.935E+07
N SOIL AIR 7.151E+06 7.062E+06 6.939E+06 6.581E+06 6.811E+06 7.238E+06 7.637E+06 7.925E+06 8.080E+06 8.133E+06 8.250E+06 8.430E+06

SUBLAYER 5

IN SOIL MOI 3.209E+06 3.533E+06 3.897E+06 4.703E+06 4.769E+06 4.632E+06 4.322E+06 4.042E+06 3.855E+06 3.719E+06 3.611E+06 3.489E+06
ADS ON SOIL 2.186E+07 2.184E+07 2.184E+07 2.187E+07 2.206E+07 2.228E+07 2.254E+07 2.265E+07 2.273E+07 2.283E+07 2.286E+07 2.290E+07
N SOIL AIR 6.473E+06 6.308E+06 6.100E+06 5.584E+06 5.605E+06 5.790E+06 6.011E+06 6.214E+06 6.330E+06 6.369E+06 6.455E+06 6.577E+06

SUBLAYER 6

N SOIL MOI 3.183E+06 3.498E+06 3.850E+06 4.623E+06 4.664E+06 4.507E+06 4.192E+06 3.917E+06 3.735E+06 3.604E+06 3.497E+06 3.377E+06
ADS ON SOIL 2.168E+07 2.162E+07 2.158E+07 2.149E+07 2.157E+07 2.168E+07 2.186E+07 2.195E+07 2.203E+07 2.212E+07 2.215E+07 2.217E+07
IN SOIL AIR 6.419E+06 6.245E+06 6.027E+06 5.488E+06 5.481E+06 5.633E+06 5.830E+06 6.022E+06 6.133E+06 6.171E+06 6.253E+06 6.368E+06

SUBLAYER 7

IN SOIL MOI 3.186E+06 3.501E+06 3.853E+06 4.624E+06 4.663E+06 4.503E+06 4.187E+06 3.913E+06 3.730E+06 3.599E+06 3.493E+06 3.373E+06
ADS ON SOIL 2.170E+07 2.164E+07 2.159E+07 2.150E+07 2.157E+07 2.166E+07 2.183E+07 2.193E+07 2.200E+07 2.209E+07 2.212E+07 2.214E+07
N SOIL AIR 6.425E+06 6.251E+06 6.031E+06 5.490E+06 5.479E+06 5.629E+06 5.824E+06 6.015E+06 6.126E+06 6.163E+06 6.245E+06 6.359E+06

SUBLAYER 8

N SOIL MOI 3.197E+06 3.513E+06 3.866E+06 4.639E+06 4.678E+06 4.517E+06 4.200E+06 3.925E+06 3.742E+06 3.610E+06 3.504E+06 3.383E+06
ADS ON SOIL 2.177E+07 2.171E+07 2.166E+07 2.157E+07 2.164E+07 2.173E+07 2.190E+07 2.199E+07 2.207E+07 2.216E+07 2.219E+07 2.221E+07
IN SOIL AIR 6.447E+06 6.272E+06 6.051E+06 5.508E+06 5.497E+06 5.647E+06 5.842E+06 6.033E+06 6.144E+06 6.182E+06 6.265E+06 6.379E+06

SUBLAYER 9

N SOIL MOI 3.213E+06 3.531E+06 3.886E+06 4.663E+06 4.702E+06 4.540E+06 4.222E+06 3.945E+06 3.761E+06 3.629E+06 3.522E+06 3.401E+06
ADS ON SOIL 2.188E+07 2.182E+07 2.177E+07 2.168E+07 2.175E+07 2.184E+07 2.201E+07 2.210E+07 2.218E+07 2.227E+07 2.230E+07 2.232E+07
IN SOIL AIR 6.480E+06 6.304E+06 6.082E+06 5.536E+06 5.525E+06 5.675E+06 5.871E+06 6.064E+06 6.176E+06 6.213E+06 6.296E+06 6.411E+06

SUBLAYER 10
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IN SOIL MOI 3.451E+06 3.791E+06 4.175E+06 5.053E+06 5.142E+06 5.001E+06 4.667E+06 4.368E+06 4.166E+06 4.020E+06 3.901E+06 3.767E+06
ADS ON SOIL 2.350E+07 2.343E+07 2.339E+07 2.349E+07 2.378E+07 2.406E+07 2.434E+07 2.448E+07 2.457E+07 2.468E+07 2.471E+07 2.473E+07
IN SOIL AIR 6.959E+06 6.769E+06 6.535E+06 5.999E+06 6.043E+06 6.251E+06 6.491E+06 6.714E+06 6.842E+06 6.884E+06 6.976E+06 7.102E+06

– 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 4.121E-06 2.273E-06 1.183E-06 3.787E-07 1.633E-07 7.800E-08 5.170E-08 4.752E-08 4.666E-08 4.680E-08 4.535E-08 4.150E-08
%SOLUBILITY 1.717E-06 9.471E-07 4.929E-07 1.578E-07 6.804E-08 3.250E-08 2.154E-08 1.980E-08 1.944E-08 1.950E-08 1.890E-08 1.729E-08
ADSORBED 1.395E-06 7.695E-07 4.005E-07 1.282E-07 5.528E-08 2.640E-08 1.750E-08 1.609E-08 1.580E-08 1.584E-08 1.535E-08 1.405E-08
SOIL AIR 2.989E-06 1.669E-06 8.773E-07 2.844E-07 1.224E-07 5.837E-08 3.795E-08 3.461E-08 3.370E-08 3.329E-08 3.224E-08 2.960E-08

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.634E-05 2.022E-05 1.057E-05 3.359E-06 1.438E-06 6.862E-07 4.541E-07 4.181E-07 4.120E-07 4.130E-07 3.996E-07 3.700E-07
%SOLUBILITY 1.514E-05 8.425E-06 4.404E-06 1.400E-06 5.992E-07 2.859E-07 1.892E-07 1.742E-07 1.717E-07 1.721E-07 1.665E-07 1.542E-07
ADSORBED 1.230E-05 6.845E-06 3.578E-06 1.137E-06 4.868E-07 2.323E-07 1.537E-07 1.415E-07 1.395E-07 1.398E-07 1.353E-07 1.253E-07
SOIL AIR 2.635E-05 1.485E-05 7.838E-06 2.523E-06 1.078E-06 5.135E-07 3.333E-07 3.045E-07 2.976E-07 2.938E-07 2.840E-07 2.639E-07

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.832E+00 3.802E+00 3.772E+00 3.718E+00 3.703E+00 3.696E+00 3.711E+00 3.724E+00 3.736E+00 3.752E+00 3.756E+00 3.756E+00
%SOLUBILITY 1.597E+00 1.584E+00 1.572E+00 1.549E+00 1.543E+00 1.540E+00 1.546E+00 1.552E+00 1.557E+00 1.563E+00 1.565E+00 1.565E+0
ADSORBED 1.297E+00 1.287E+00 1.277E+00 1.259E+00 1.254E+00 1.251E+00 1.256E+00 1.261E+00 1.265E+00 1.270E+00 1.271E+00 1.272E+0
SOIL AIR 2.779E+00 2.792E+00 2.797E+00 2.793E+00 2.776E+00 2.766E+00 2.725E+00 2.713E+00 2.698E+00 2.669E+00 2.670E+00 2.679E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.194E+00 1.223E+00 1.255E+00 1.310E+00 1.358E+00 1.401E+00 1.431E+00 1.441E+00 1.447E+00 1.453E+00 1.456E+00 1.461E+00
%SOLUBILITY 4.975E-01 5.095E-01 5.228E-01 5.460E-01 5.660E-01 5.836E-01 5.963E-01 6.005E-01 6.028E-01 6.056E-01 6.068E-01 6.087E-01
ADSORBED 4.042E-01 4.139E-01 4.247E-01 4.436E-01 4.598E-01 4.741E-01 4.845E-01 4.879E-01 4.898E-01 4.920E-01 4.930E-01 4.945E-01
SOIL AIR 8.659E-01 8.981E-01 9.305E-01 9.840E-01 1.018E+00 1.048E+00 1.051E+00 1.050E+00 1.045E+00 1.034E+00 1.035E+00 1.042E+00

SUBLAYER 2

MOISTURE 3.420E-01 3.606E-01 3.819E-01 4.232E-01 4.582E-01 4.897E-01 5.101E-01 5.159E-01 5.185E-01 5.211E-01 5.226E-01 5.262E-01
%SOLUBILITY 1.425E-01 1.503E-01 1.591E-01 1.763E-01 1.909E-01 2.040E-01 2.126E-01 2.150E-01 2.160E-01 2.171E-01 2.178E-01 2.192E-01
ADSORBED 1.158E-01 1.221E-01 1.293E-01 1.432E-01 1.551E-01 1.658E-01 1.727E-01 1.746E-01 1.755E-01 1.764E-01 1.769E-01 1.781E-01
SOIL AIR 2.480E-01 2.649E-01 2.832E-01 3.178E-01 3.435E-01 3.664E-01 3.745E-01 3.757E-01 3.744E-01 3.706E-01 3.715E-01 3.753E-01

SUBLAYER 3

MOISTURE 9.634E-02 1.012E-01 1.070E-01 1.194E-01 1.308E-01 1.414E-01 1.484E-01 1.504E-01 1.512E-01 1.520E-01 1.525E-01 1.537E-01
%SOLUBILITY 4.014E-02 4.216E-02 4.460E-02 4.976E-02 5.448E-02 5.892E-02 6.184E-02 6.265E-02 6.299E-02 6.332E-02 6.354E-02 6.404E-02
ADSORBED 3.261E-02 3.425E-02 3.624E-02 4.043E-02 4.426E-02 4.787E-02 5.024E-02 5.090E-02 5.118E-02 5.144E-02 5.162E-02 5.203E-02
SOIL AIR 6.986E-02 7.432E-02 7.938E-02 8.969E-02 9.802E-02 1.058E-01 1.089E-01 1.095E-01 1.092E-01 1.081E-01 1.084E-01 1.096E-01

SUBLAYER 4

MOISTURE 5.344E-02 5.409E-02 5.497E-02 5.702E-02 5.932E-02 6.163E-02 6.336E-02 6.392E-02 6.420E-02 6.451E-02 6.466E-02 6.493E-02
%SOLUBILITY 2.227E-02 2.254E-02 2.290E-02 2.376E-02 2.472E-02 2.568E-02 2.640E-02 2.663E-02 2.675E-02 2.688E-02 2.694E-02 2.706E-02
ADSORBED 1.809E-02 1.831E-02 1.861E-02 1.930E-02 2.008E-02 2.086E-02 2.145E-02 2.164E-02 2.173E-02 2.184E-02 2.189E-02 2.198E-02
SOIL AIR 3.875E-02 3.973E-02 4.076E-02 4.282E-02 4.447E-02 4.612E-02 4.651E-02 4.655E-02 4.637E-02 4.588E-02 4.596E-02 4.631E-02

SUBLAYER 5

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MOISTURE    4.837E-02 4.831E-02 4.832E-02 4.838E-02 4.881E-02 4.931E-02 4.987E-02 5.012E-02 5.030E-02 5.052E-02 5.059E-02 5.066E-02
 OLUBILITY 2.015E-02 2.013E-02 2.013E-02 2.016E-02 2.034E-02 2.054E-02 2.078E-02 2.088E-02 2.096E-02 2.105E-02 2.108E-02 2.111E-02
 SORBED    1.637E-02 1.636E-02 1.636E-02 1.638E-02 1.652E-02 1.669E-02 1.688E-02 1.697E-02 1.703E-02 1.710E-02 1.713E-02 1.715E-02
SOIL AIR    3.508E-02 3.548E-02 3.583E-02 3.634E-02 3.659E-02 3.690E-02 3.661E-02 3.650E-02 3.633E-02 3.593E-02 3.596E-02 3.613E-02

      SUBLAYER 6

MOISTURE    4.797E-02 4.784E-02 4.774E-02 4.756E-02 4.773E-02 4.797E-02 4.837E-02 4.857E-02 4.873E-02 4.895E-02 4.901E-02 4.905E-02
%SOLUBILITY 1.999E-02 1.993E-02 1.989E-02 1.982E-02 1.989E-02 1.999E-02 2.015E-02 2.024E-02 2.031E-02 2.039E-02 2.042E-02 2.044E-02
ADSORBED    1.624E-02 1.619E-02 1.616E-02 1.610E-02 1.616E-02 1.624E-02 1.637E-02 1.644E-02 1.650E-02 1.657E-02 1.659E-02 1.660E-02
SOIL AIR    3.478E-02 3.513E-02 3.540E-02 3.572E-02 3.578E-02 3.590E-02 3.550E-02 3.538E-02 3.520E-02 3.481E-02 3.483E-02 3.498E-02

      SUBLAYER 7

MOISTURE    4.802E-02 4.788E-02 4.778E-02 4.757E-02 4.772E-02 4.794E-02 4.831E-02 4.851E-02 4.868E-02 4.888E-02 4.895E-02 4.898E-02
%SOLUBILITY 2.001E-02 1.995E-02 1.991E-02 1.982E-02 1.988E-02 1.997E-02 2.013E-02 2.021E-02 2.028E-02 2.037E-02 2.039E-02 2.041E-02
ADSORBED    1.625E-02 1.621E-02 1.617E-02 1.610E-02 1.615E-02 1.623E-02 1.635E-02 1.642E-02 1.648E-02 1.655E-02 1.657E-02 1.658E-02
SOIL AIR    3.482E-02 3.516E-02 3.543E-02 3.573E-02 3.577E-02 3.587E-02 3.547E-02 3.533E-02 3.515E-02 3.477E-02 3.479E-02 3.494E-02

      SUBLAYER 8

MOISTURE    4.818E-02 4.804E-02 4.793E-02 4.772E-02 4.787E-02 4.809E-02 4.846E-02 4.866E-02 4.882E-02 4.904E-02 4.910E-02 4.914E-02
%SOLUBILITY 2.007E-02 2.002E-02 1.997E-02 1.989E-02 1.995E-02 2.004E-02 2.019E-02 2.028E-02 2.034E-02 2.043E-02 2.046E-02 2.047E-02
ADSORBED    1.631E-02 1.626E-02 1.623E-02 1.616E-02 1.621E-02 1.628E-02 1.641E-02 1.647E-02 1.653E-02 1.660E-02 1.662E-02 1.663E-02
SOIL AIR    3.494E-02 3.528E-02 3.555E-02 3.584E-02 3.589E-02 3.598E-02 3.557E-02 3.544E-02 3.526E-02 3.488E-02 3.490E-02 3.504E-02

      SUBLAYER 9

MOISTURE    4.842E-02 4.829E-02 4.818E-02 4.797E-02 4.812E-02 4.833E-02 4.871E-02 4.891E-02 4.907E-02 4.928E-02 4.934E-02 4.938E-02
%SOLUBILITY 2.018E-02 2.012E-02 2.007E-02 1.999E-02 2.005E-02 2.014E-02 2.029E-02 2.038E-02 2.045E-02 2.053E-02 2.056E-02 2.058E-02
ADSORBED    1.639E-02 1.635E-02 1.631E-02 1.624E-02 1.629E-02 1.636E-02 1.649E-02 1.656E-02 1.661E-02 1.668E-02 1.670E-02 1.672E-02
SOIL AIR    3.512E-02 3.546E-02 3.573E-02 3.602E-02 3.607E-02 3.616E-02 3.576E-02 3.562E-02 3.544E-02 3.505E-02 3.507E-02 3.522E-02

      SUBLAYER 10

 STURE      5.200E-02 5.185E-02 5.177E-02 5.199E-02 5.263E-02 5.323E-02 5.385E-02 5.416E-02 5.437E-02 5.460E-02 5.467E-02 5.471E-02
%SOLUBILITY 2.167E-02 2.160E-02 2.157E-02 2.166E-02 2.193E-02 2.218E-02 2.244E-02 2.256E-02 2.265E-02 2.275E-02 2.278E-02 2.280E-02
ADSORBED    1.760E-02 1.755E-02 1.752E-02 1.760E-02 1.782E-02 1.802E-02 1.823E-02 1.833E-02 1.840E-02 1.848E-02 1.851E-02 1.852E-02
SOIL AIR    3.771E-02 3.808E-02 3.839E-02 3.904E-02 3.945E-02 3.983E-02 3.953E-02 3.944E-02 3.927E-02 3.884E-02 3.886E-02 3.902E-02

POL DEP CM  1.813E+03 1.813E+03 1.814E+03 1.815E+03 1.816E+03 1.817E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03 1.818E+03
                    YEAR -  4 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 (%)            8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                 32.338
TOTAL INFILTRATION (CM)                 25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                   1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                   7.763
0       -- POLLUTANT MASS DISTRIBUTION IN COLUMN (UG) -- NOTE: IF COMPONENT IS ZERO EACH MONTH, IT IS NOT PRINTED
        ---------------------------------------------------------------------------
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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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 7.064E-07
ADSORBED SOIL (UG/G) 2.391E-07
SOIL AIR (UG/ML) 5.168E-07

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.256E-06
ADSORBED SOIL (UG/G) 2.118E-06
SOIL AIR (UG/ML) 4.578E-06

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.747E+00
ADSORBED SOIL (UG/G) 1.268E+00
SOIL AIR (UG/ML) 2.738E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.369E+00
ADSORBED SOIL (UG/G) 4.635E-01
SOIL AIR (UG/ML) 1.000E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 4.642E-01
ADSORBED SOIL (UG/G) 1.571E-01
SOIL AIR (UG/ML) 3.388E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.337E-01
ADSORBED SOIL (UG/G) 4.526E-02
SOIL AIR (UG/ML) 9.757E-02

SUBLAYER 4

SOIL MOISTURE (UG/ML) 6.050E-02
ADSORBED SOIL (UG/G) 2.048E-02
SOIL AIR (UG/ML) 4.419E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.946E-02
ADSORBED SOIL (UG/G) 1.674E-02
SOIL AIR (UG/ML) 3.614E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.829E-02
ADSORBED SOIL (UG/G) 1.635E-02
SOIL AIR (UG/ML) 3.529E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.827E-02
ADSORBED SOIL (UG/G) 1.634E-02
SOIL AIR (UG/ML) 3.527E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.842E-02
ADSORBED SOIL (UG/G) 1.639E-02
SOIL AIR (UG/ML) 3.538E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.867E-02
ADSORBED SOIL (UG/G) 1.647E-02
SOIL AIR (UG/ML) 3.556E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.332E-02
ADSORBED SOIL (UG/G) 1.805E-02
SOIL AIR (UG/ML) 3.895E-02

1 MAX. POLL. DEPTH (M) 1.818E+01

YEAR - 5 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.674E+01	1.610E+01	9.028E+00	3.301E+00	1.177E+00	7.203E-01	6.645E-01	6.184E-01	5.876E-01	5.645E-01	5.472E-01	5.280E-01
ADS ON SOIL	1.822E+02	9.950E+01	5.059E+01	1.535E+01	5.445E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00	3.465E+00
IN SOIL AIR	5.394E+01	2.874E+01	1.413E+01	3.919E+00	1.383E+00	9.004E-01	9.242E-01	9.506E-01	9.649E-01	9.666E-01	9.783E-01	9.954E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	3.110E+01	1.882E+01	1.057E+01	3.870E+00	1.473E+00	8.015E-01	7.394E-01	6.880E-01	6.538E-01	6.281E-01	6.089E-01	5.875E-01
ADS ON SOIL	2.119E+02	1.163E+02	5.925E+01	1.799E+01	6.812E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00	3.856E+00
IN SOIL AIR	6.273E+01	3.360E+01	1.655E+01	4.595E+00	1.731E+00	1.002E+00	1.028E+00	1.058E+00	1.074E+00	1.076E+00	1.089E+00	1.108E+00

SOIL ZONE 3:

SUBLAYER 1

... SOIL MOI 1.538E+09 1.681E+09 1.840E+09 2.186E+09 2.188E+09 2.100E+09 1.945E+09 1.817E+09 1.732E+09 1.671E+09 1.621E+09 1.564E+09
ADS ON SOIL 1.047E+10 1.039E+10 1.031E+10 1.016E+10 1.012E+10 1.010E+10 1.014E+10 1.018E+10 1.021E+10 1.026E+10 1.027E+10 1.027E+10
IN SOIL AIR 3.101E+09 3.002E+09 2.880E+09 2.595E+09 2.571E+09 2.625E+09 2.706E+09 2.793E+09 2.844E+09 2.861E+09 2.898E+09 2.949E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 9.705E+07 1.084E+08 1.214E+08 1.501E+08 1.545E+08 1.517E+08 1.423E+08 1.332E+08 1.270E+08 1.226E+08 1.190E+08 1.151E+08
ADS ON SOIL 6.610E+08 6.700E+08 6.802E+08 6.977E+08 7.146E+08 7.298E+08 7.420E+08 7.464E+08 7.492E+08 7.525E+08 7.538E+08 7.555E+08
IN SOIL AIR 1.957E+08 1.935E+08 1.900E+08 1.782E+08 1.816E+08 1.896E+08 1.979E+08 2.048E+08 2.086E+08 2.099E+08 2.128E+08 2.170E+08

SUBLAYER 2

IN SOIL MOI 3.511E+07 4.015E+07 4.610E+07 5.973E+07 6.366E+07 6.432E+07 6.127E+07 5.755E+07 5.493E+07 5.303E+07 5.153E+07 4.998E+07
ADS ON SOIL 2.392E+08 2.481E+08 2.583E+08 2.777E+08 2.944E+08 3.094E+08 3.195E+08 3.225E+08 3.239E+08 3.255E+08 3.263E+08 3.280E+08
IN SOIL AIR 7.082E+07 7.168E+07 7.216E+07 7.092E+07 7.480E+07 8.040E+07 8.521E+07 8.847E+07 9.020E+07 9.080E+07 9.214E+07 9.422E+07

SUBLAYER 3

IN SOIL MOI 1.027E+07 1.186E+07 1.377E+07 1.831E+07 1.994E+07 2.054E+07 1.978E+07 1.862E+07 1.779E+07 1.717E+07 1.670E+07 1.622E+07
ADS ON SOIL 6.998E+07 7.327E+07 7.716E+07 8.512E+07 9.224E+07 9.880E+07 1.031E+08 1.043E+08 1.049E+08 1.054E+08 1.057E+08 1.065E+08
IN SOIL AIR 2.072E+07 2.117E+07 2.155E+07 2.174E+07 2.343E+07 2.567E+07 2.750E+07 2.863E+07 2.921E+07 2.941E+07 2.986E+07 3.059E+07

SUBLAYER 4

IN SOIL MOI 4.321E+06 4.868E+06 5.517E+06 7.046E+06 7.481E+06 7.563E+06 7.217E+06 6.784E+06 6.477E+06 6.253E+06 6.077E+06 5.895E+06
ADS ON SOIL 2.943E+07 3.009E+07 3.092E+07 3.276E+07 3.460E+07 3.638E+07 3.763E+07 3.802E+07 3.820E+07 3.838E+07 3.848E+07 3.869E+07
IN SOIL AIR 8.714E+06 8.692E+06 8.636E+06 8.366E+06 8.791E+06 9.454E+06 1.004E+07 1.043E+07 1.064E+07 1.071E+07 1.087E+07 1.111E+07

SUBLAYER 5

OIL MOI 3.358E+06 3.707E+06 4.103E+06 4.992E+06 5.097E+06 4.982E+06 4.666E+06 4.367E+06 4.165E+06 4.020E+06 3.903E+06 3.773E+06
S ON SOIL 2.287E+07 2.291E+07 2.299E+07 2.321E+07 2.358E+07 2.397E+07 2.433E+07 2.447E+07 2.456E+07 2.467E+07 2.471E+07 2.476E+07
IN SOIL AIR 6.773E+06 6.619E+06 6.423E+06 5.926E+06 5.990E+06 6.227E+06 6.489E+06 6.714E+06 6.840E+06 6.883E+06 6.978E+06 7.114E+06

SUBLAYER 6

IN SOIL MOI 3.249E+06 3.572E+06 3.933E+06 4.728E+06 4.775E+06 4.619E+06 4.299E+06 4.018E+06 3.831E+06 3.696E+06 3.588E+06 3.465E+06
ADS ON SOIL 2.213E+07 2.208E+07 2.204E+07 2.198E+07 2.209E+07 2.222E+07 2.242E+07 2.252E+07 2.259E+07 2.269E+07 2.272E+07 2.274E+07
IN SOIL AIR 6.552E+06 6.377E+06 6.157E+06 5.613E+06 5.611E+06 5.774E+06 5.979E+06 6.177E+06 6.291E+06 6.330E+06 6.414E+06 6.532E+06

SUBLAYER 7

IN SOIL MOI 3.244E+06 3.565E+06 3.924E+06 4.710E+06 4.750E+06 4.588E+06 4.266E+06 3.986E+06 3.800E+06 3.667E+06 3.559E+06 3.437E+06
ADS ON SOIL 2.210E+07 2.204E+07 2.199E+07 2.190E+07 2.197E+07 2.207E+07 2.224E+07 2.234E+07 2.241E+07 2.251E+07 2.254E+07 2.255E+07
IN SOIL AIR 6.543E+06 6.366E+06 6.142E+06 5.592E+06 5.581E+06 5.734E+06 5.933E+06 6.128E+06 6.241E+06 6.279E+06 6.363E+06 6.479E+06

SUBLAYER 8

IN SOIL MOI 3.254E+06 3.576E+06 3.936E+06 4.723E+06 4.762E+06 4.599E+06 4.276E+06 3.996E+06 3.809E+06 3.676E+06 3.567E+06 3.445E+06
ADS ON SOIL 2.217E+07 2.210E+07 2.205E+07 2.196E+07 2.203E+07 2.212E+07 2.230E+07 2.239E+07 2.247E+07 2.256E+07 2.259E+07 2.261E+07
IN SOIL AIR 6.563E+06 6.385E+06 6.161E+06 5.607E+06 5.596E+06 5.749E+06 5.947E+06 6.143E+06 6.256E+06 6.294E+06 6.378E+06 6.494E+06

SUBLAYER 9

IN SOIL MOI 3.271E+06 3.594E+06 3.956E+06 4.747E+06 4.786E+06 4.622E+06 4.298E+06 4.016E+06 3.828E+06 3.694E+06 3.585E+06 3.462E+06
ADS ON SOIL 2.228E+07 2.221E+07 2.217E+07 2.207E+07 2.214E+07 2.223E+07 2.241E+07 2.250E+07 2.258E+07 2.267E+07 2.270E+07 2.272E+07
IN SOIL AIR 6.596E+06 6.417E+06 6.192E+06 5.636E+06 5.624E+06 5.777E+06 5.977E+06 6.173E+06 6.287E+06 6.325E+06 6.410E+06 6.526E+06

SUBLAYER 10

N SOIL MOI 3.623E+06 3.981E+06 4.383E+06 5.303E+06 5.395E+06 5.245E+06 4.894E+06 4.580E+06 4.369E+06 4.215E+06 4.091E+06 3.950E+06
ADS ON SOIL 2.468E+07 2.460E+07 2.456E+07 2.466E+07 2.495E+07 2.523E+07 2.552E+07 2.566E+07 2.576E+07 2.587E+07 2.591E+07 2.593E+07
IN SOIL AIR 7.307E+06 7.107E+06 6.861E+06 6.296E+06 6.340E+06 6.556E+06 6.806E+06 7.041E+06 7.174E+06 7.218E+06 7.314E+06 7.447E+06

-- 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 3.680E-08 2.010E-08 1.022E-08 3.100E-09 1.100E-09 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10 7.000E-10
%SOLUBILITY 1.533E-08 8.375E-09 4.258E-09 1.292E-09 4.583E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10 2.917E-10
ADSORBED 1.246E-08 6.804E-09 3.460E-09 1.049E-09 3.724E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10 2.370E-10
SOIL AIR 2.669E-08 1.476E-08 7.579E-09 2.328E-09 8.246E-10 5.238E-10 5.139E-10 5.098E-10 5.056E-10 4.979E-10 4.976E-10 4.992E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.297E-07 1.810E-07 9.220E-08 2.800E-08 1.060E-08 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09 6.000E-09
%SOLUBILITY 1.374E-07 7.542E-08 3.842E-08 1.167E-08 4.417E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09 2.500E-09
ADSORBED 1.116E-07 6.127E-08 3.121E-08 9.479E-09 3.588E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09 2.031E-09
SOIL AIR 2.391E-07 1.329E-07 6.838E-08 2.103E-08 7.946E-09 4.490E-09 4.404E-09 4.370E-09 4.333E-09 4.268E-09 4.265E-09 4.279E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.746E+00 3.716E+00 3.687E+00 3.634E+00 3.619E+00 3.612E+00 3.628E+00 3.640E+00 3.652E+00 3.667E+00 3.671E+00 3.671E+00
%SOLUBILITY 1.561E+00 1.548E+00 1.536E+00 1.514E+00 1.508E+00 1.505E+00 1.512E+00 1.517E+00 1.522E+00 1.528E+00 1.530E+00 1.530E+00
ADSORBED 1.268E+00 1.258E+00 1.248E+00 1.230E+00 1.225E+00 1.223E+00 1.228E+00 1.232E+00 1.236E+00 1.241E+00 1.243E+00 1.243E+00
SOIL AIR 2.716E+00 2.729E+00 2.734E+00 2.730E+00 2.713E+00 2.703E+00 2.663E+00 2.651E+00 2.638E+00 2.608E+00 2.609E+00 2.618E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.463E+00 1.483E+00 1.505E+00 1.544E+00 1.581E+00 1.615E+00 1.642E+00 1.652E+00 1.658E+00 1.665E+00 1.668E+00 1.672E+00
%SOLUBILITY 6.094E-01 6.177E-01 6.271E-01 6.433E-01 6.588E-01 6.728E-01 6.841E-01 6.882E-01 6.907E-01 6.938E-01 6.950E-01 6.965E-01
ADSORBED 4.951E-01 5.019E-01 5.095E-01 5.226E-01 5.353E-01 5.466E-01 5.558E-01 5.591E-01 5.612E-01 5.637E-01 5.646E-01 5.659E-01
SOIL AIR 1.061E+00 1.089E+00 1.116E+00 1.159E+00 1.185E+00 1.208E+00 1.205E+00 1.203E+00 1.197E+00 1.184E+00 1.186E+00 1.192E+00

SUBLAYER 2

MOISTURE 5.292E-01 5.490E-01 5.716E-01 6.145E-01 6.515E-01 6.847E-01 7.069E-01 7.136E-01 7.168E-01 7.202E-01 7.221E-01 7.258E-01
%SOLUBILITY 2.205E-01 2.288E-01 2.382E-01 2.560E-01 2.714E-01 2.853E-01 2.945E-01 2.973E-01 2.987E-01 3.001E-01 3.009E-01 3.024E-01
ADSORBED 1.792E-01 1.859E-01 1.935E-01 2.080E-01 2.205E-01 2.318E-01 2.393E-01 2.416E-01 2.426E-01 2.438E-01 2.444E-01 2.457E-01
SOIL AIR 3.838E-01 4.032E-01 4.239E-01 4.615E-01 4.884E-01 5.123E-01 5.189E-01 5.197E-01 5.177E-01 5.123E-01 5.133E-01 5.176E-01

SUBLAYER 3

MOISTURE 1.549E-01 1.621E-01 1.707E-01 1.884E-01 2.041E-01 2.186E-01 2.282E-01 2.309E-01 2.321E-01 2.332E-01 2.340E-01 2.356E-01
%SOLUBILITY 6.452E-02 6.755E-02 7.114E-02 7.848E-02 8.504E-02 9.109E-02 9.507E-02 9.621E-02 9.670E-02 9.719E-02 9.749E-02 9.817E-02
ADSORBED 5.242E-02 5.488E-02 5.780E-02 6.376E-02 6.909E-02 7.401E-02 7.724E-02 7.816E-02 7.856E-02 7.896E-02 7.921E-02 7.976E-02
SOIL AIR 1.123E-01 1.191E-01 1.266E-01 1.415E-01 1.530E-01 1.636E-01 1.675E-01 1.682E-01 1.676E-01 1.659E-01 1.663E-01 1.680E-01

SUBLAYER 4

MOISTURE 6.512E-02 6.658E-02 6.841E-02 7.249E-02 7.656E-02 8.051E-02 8.327E-02 8.412E-02 8.452E-02 8.493E-02 8.515E-02 8.561E-02
%SOLUBILITY 2.713E-02 2.774E-02 2.851E-02 3.020E-02 3.190E-02 3.354E-02 3.469E-02 3.505E-02 3.522E-02 3.539E-02 3.548E-02 3.567E-02
ADSORBED 2.204E-02 2.254E-02 2.316E-02 2.454E-02 2.592E-02 2.725E-02 2.819E-02 2.848E-02 2.861E-02 2.875E-02 2.883E-02 2.898E-02
SOIL AIR 4.722E-02 4.890E-02 5.073E-02 5.444E-02 5.740E-02 6.024E-02 6.112E-02 6.126E-02 6.104E-02 6.041E-02 6.053E-02 6.105E-02

SUBLAYER 5

MOISTURE 5.061E-02 5.070E-02 5.088E-02 5.135E-02 5.216E-02 5.303E-02 5.383E-02 5.415E-02 5.435E-02 5.460E-02 5.468E-02 5.480E-02
%SOLUBILITY 2.109E-02 2.113E-02 2.120E-02 2.140E-02 2.174E-02 2.210E-02 2.243E-02 2.256E-02 2.265E-02 2.275E-02 2.279E-02 2.283E-02
ADSORBED 1.713E-02 1.716E-02 1.722E-02 1.738E-02 1.766E-02 1.795E-02 1.822E-02 1.833E-02 1.840E-02 1.848E-02 1.851E-02 1.855E-02
SOIL AIR 3.670E-02 3.724E-02 3.773E-02 3.856E-02 3.910E-02 3.968E-02 3.952E-02 3.944E-02 3.926E-02 3.883E-02 3.887E-02 3.908E-02

SUBLAYER 6

STURE 4.896E-02 4.885E-02 4.877E-02 4.864E-02 4.887E-02 4.917E-02 4.960E-02 4.982E-02 4.999E-02 5.020E-02 5.027E-02 5.032E-02
%SOLUBILITY 2.040E-02 2.035E-02 2.032E-02 2.027E-02 2.036E-02 2.049E-02 2.067E-02 2.076E-02 2.083E-02 2.092E-02 2.095E-02 2.097E-02
ADSORBED 1.658E-02 1.654E-02 1.651E-02 1.646E-02 1.654E-02 1.664E-02 1.679E-02 1.687E-02 1.692E-02 1.700E-02 1.702E-02 1.703E-02
SOIL AIR 3.551E-02 3.588E-02 3.617E-02 3.653E-02 3.663E-02 3.679E-02 3.641E-02 3.628E-02 3.610E-02 3.571E-02 3.573E-02 3.589E-02

SUBLAYER 7

MOISTURE 4.890E-02 4.876E-02 4.866E-02 4.845E-02 4.861E-02 4.883E-02 4.922E-02 4.943E-02 4.959E-02 4.980E-02 4.987E-02 4.991E-02
%SOLUBILITY 2.037E-02 2.032E-02 2.027E-02 2.019E-02 2.025E-02 2.035E-02 2.051E-02 2.059E-02 2.066E-02 2.075E-02 2.078E-02 2.079E-02
ADSORBED 1.655E-02 1.651E-02 1.647E-02 1.640E-02 1.646E-02 1.653E-02 1.666E-02 1.673E-02 1.679E-02 1.686E-02 1.688E-02 1.689E-02
SOIL AIR 3.546E-02 3.581E-02 3.608E-02 3.639E-02 3.644E-02 3.654E-02 3.613E-02 3.600E-02 3.582E-02 3.542E-02 3.545E-02 3.559E-02

SUBLAYER 8

MOISTURE 4.905E-02 4.891E-02 4.880E-02 4.859E-02 4.874E-02 4.896E-02 4.934E-02 4.954E-02 4.971E-02 4.992E-02 4.998E-02 5.002E-02
%SOLUBILITY 2.044E-02 2.038E-02 2.033E-02 2.024E-02 2.031E-02 2.040E-02 2.056E-02 2.064E-02 2.071E-02 2.080E-02 2.083E-02 2.084E-02
ADSORBED 1.660E-02 1.656E-02 1.652E-02 1.645E-02 1.650E-02 1.657E-02 1.670E-02 1.677E-02 1.683E-02 1.690E-02 1.692E-02 1.693E-02
SOIL AIR 3.557E-02 3.592E-02 3.619E-02 3.649E-02 3.654E-02 3.663E-02 3.622E-02 3.608E-02 3.590E-02 3.551E-02 3.553E-02 3.568E-02

SUBLAYER 9

MOISTURE 4.929E-02 4.915E-02 4.905E-02 4.883E-02 4.898E-02 4.920E-02 4.958E-02 4.979E-02 4.995E-02 5.017E-02 5.023E-02 5.027E-02
%SOLUBILITY 2.054E-02 2.048E-02 2.044E-02 2.035E-02 2.041E-02 2.050E-02 2.066E-02 2.075E-02 2.081E-02 2.090E-02 2.093E-02 2.095E-02
ADSORBED 1.669E-02 1.664E-02 1.660E-02 1.653E-02 1.658E-02 1.665E-02 1.679E-02 1.686E-02 1.691E-02 1.698E-02 1.700E-02 1.702E-02
SOIL AIR 3.575E-02 3.610E-02 3.637E-02 3.667E-02 3.672E-02 3.681E-02 3.640E-02 3.626E-02 3.608E-02 3.568E-02 3.571E-02 3.585E-02

SUBLAYER 10

MOISTURE 5.461E-02 5.444E-02 5.435E-02 5.456E-02 5.521E-02 5.583E-02 5.647E-02 5.679E-02 5.701E-02 5.725E-02 5.732E-02 5.737E-02
%SOLUBILITY 2.275E-02 2.268E-02 2.265E-02 2.273E-02 2.300E-02 2.326E-02 2.353E-02 2.366E-02 2.375E-02 2.386E-02 2.388E-02 2.390E-02
ADSORBED 1.849E-02 1.843E-02 1.840E-02 1.847E-02 1.869E-02 1.890E-02 1.911E-02 1.922E-02 1.930E-02 1.938E-02 1.940E-02 1.942E-02
SOIL AIR 3.960E-02 3.998E-02 4.030E-02 4.097E-02 4.139E-02 4.178E-02 4.145E-02 4.136E-02 4.117E-02 4.072E-02 4.075E-02 4.091E-02

, OL DEP CM 1.818E+03 1.819E+03 1.819E+03 1.821E+03 1.822E+03 1.823E+03 1.823E+03 1.823E+03 1.824E+03 1.824E+03 1.824E+03 1.824E+03
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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.352E-09
ADSORBED SOIL (UG/G) 2.150E-09
SOIL AIR (UG/ML) 4.644E-09

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.696E-08
ADSORBED SOIL (UG/G) 1.928E-08
SOIL AIR (UG/ML) 4.165E-08

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.662E+00
ADSORBED SOIL (UG/G) 1.240E+00

SOIL AIR (UG/ML) 2.676E+00

OWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.595E+00
ADSORBED SOIL (UG/G) 5.401E-01
SOIL AIR (UG/ML) 1.166E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.588E-01
ADSORBED SOIL (UG/G) 2.230E-01
SOIL AIR (UG/ML) 4.810E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.077E-01
ADSORBED SOIL (UG/G) 7.032E-02
SOIL AIR (UG/ML) 1.516E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 7.810E-02
ADSORBED SOIL (UG/G) 2.644E-02
SOIL AIR (UG/ML) 5.703E-02

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.293E-02
ADSORBED SOIL (UG/G) 1.792E-02
SOIL AIR (UG/ML) 3.867E-02

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.945E-02
ADSORBED SOIL (UG/G) 1.674E-02
SOIL AIR (UG/ML) 3.614E-02

SUBLAYER 7

SOIL MOISTURE (UG/ML) 4.917E-02
ADSORBED SOIL (UG/G) 1.664E-02
SOIL AIR (UG/ML) 3.593E-02

SUBLAYER 8

SOIL MOISTURE (UG/ML) 4.930E-02
ADSORBED SOIL (UG/G) 1.669E-02
SOIL AIR (UG/ML) 3.602E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.954E-02
ADSORBED SOIL (UG/G) 1.677E-02
SOIL AIR (UG/ML) 3.620E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.593E-02
ADSORBED SOIL (UG/G) 1.893E-02
SOIL AIR (UG/ML) 4.087E-02

MAX. POLL. DEPTH (M) 1.824E+01

YEAR - 10 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.372E+09	1.500E+09	1.641E+09	1.950E+09	1.952E+09	1.873E+09	1.735E+09	1.621E+09	1.545E+09	1.490E+09	1.446E+09	1.395E+09
ADS ON SOIL	9.344E+09	9.269E+09	9.196E+09	9.066E+09	9.029E+09	9.011E+09	9.049E+09	9.081E+09	9.110E+09	9.148E+09	9.158E+09	9.158E+09
IN SOIL AIR	2.767E+09	2.678E+09	2.569E+09	2.315E+09	2.294E+09	2.341E+09	2.414E+09	2.491E+09	2.537E+09	2.552E+09	2.586E+09	2.631E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.398E+08	1.537E+08	1.692E+08	2.033E+08	2.050E+08	1.980E+08	1.840E+08	1.720E+08	1.639E+08	1.582E+08	1.535E+08	1.482E+08
ADS ON SOIL	9.519E+08	9.498E+08	9.484E+08	9.450E+08	9.482E+08	9.523E+08	9.597E+08	9.637E+08	9.668E+08	9.710E+08	9.721E+08	9.728E+08
IN SOIL AIR	2.819E+08	2.744E+08	2.649E+08	2.413E+08	2.409E+08	2.475E+08	2.560E+08	2.644E+08	2.692E+08	2.709E+08	2.745E+08	2.794E+08

SUBLAYER 2

IN SOIL MOI 9.704E+07 1.077E+08 1.198E+08 1.466E+08 1.499E+08 1.465E+08 1.371E+08 1.283E+08 1.223E+08 1.180E+08 1.146E+08 1.108E+08
ADS ON SOIL 6.610E+08 6.657E+08 6.714E+08 6.816E+08 6.935E+08 7.048E+08 7.148E+08 7.187E+08 7.213E+08 7.245E+08 7.257E+08 7.271E+08
IN SOIL AIR 1.957E+08 1.923E+08 1.875E+08 1.741E+08 1.762E+08 1.831E+08 1.907E+08 1.972E+08 2.009E+08 2.021E+08 2.049E+08 2.089E+08

SUBLAYER 3

IN SOIL MOI 4.885E+07 5.476E+07 6.159E+07 7.701E+07 8.008E+07 7.934E+07 7.480E+07 7.011E+07 6.689E+07 6.456E+07 6.270E+07 6.069E+07
ADS ON SOIL 3.327E+08 3.384E+08 3.451E+08 3.581E+08 3.704E+08 3.817E+08 3.900E+08 3.929E+08 3.945E+08 3.963E+08 3.971E+08 3.984E+08
IN SOIL AIR 9.852E+07 9.777E+07 9.641E+07 9.143E+07 9.410E+07 9.918E+07 1.040E+08 1.078E+08 1.098E+08 1.105E+08 1.121E+08 1.144E+08

SUBLAYER 4

IN SOIL MOI 1.940E+07 2.190E+07 2.483E+07 3.160E+07 3.332E+07 3.341E+07 3.171E+07 2.977E+07 2.841E+07 2.742E+07 2.664E+07 2.582E+07
ADS ON SOIL 1.321E+08 1.353E+08 1.391E+08 1.469E+08 1.541E+08 1.607E+08 1.653E+08 1.668E+08 1.675E+08 1.683E+08 1.687E+08 1.694E+08
IN SOIL AIR 3.913E+07 3.910E+07 3.887E+07 3.751E+07 3.915E+07 4.176E+07 4.410E+07 4.576E+07 4.665E+07 4.696E+07 4.764E+07 4.867E+07

SUBLAYER 5

IN SOIL MOI 7.634E+06 8.589E+06 9.709E+06 1.232E+07 1.299E+07 1.303E+07 1.237E+07 1.162E+07 1.109E+07 1.071E+07 1.040E+07 1.008E+07
ADS ON SOIL 5.200E+07 5.308E+07 5.441E+07 5.728E+07 6.008E+07 6.269E+07 6.452E+07 6.512E+07 6.541E+07 6.572E+07 6.587E+07 6.615E+07
IN SOIL AIR 1.540E+07 1.533E+07 1.520E+07 1.463E+07 1.527E+07 1.629E+07 1.721E+07 1.786E+07 1.822E+07 1.833E+07 1.860E+07 1.900E+07

SUBLAYER 6

IN SOIL MOI 4.332E+06 4.807E+06 5.353E+06 6.596E+06 6.803E+06 6.703E+06 6.304E+06 5.907E+06 5.636E+06 5.439E+06 5.282E+06 5.109E+06
ADS ON SOIL 2.950E+07 2.971E+07 2.999E+07 3.066E+07 3.147E+07 3.225E+07 3.287E+07 3.310E+07 3.324E+07 3.339E+07 3.345E+07 3.353E+07
IN SOIL AIR 8.736E+06 8.583E+06 8.378E+06 7.831E+06 7.994E+06 8.379E+06 8.767E+06 9.081E+06 9.255E+06 9.314E+06 9.443E+06 9.632E+06

SUBLAYER 7

IN SOIL MOI 3.662E+06 4.033E+06 4.448E+06 5.370E+06 5.444E+06 5.283E+06 4.926E+06 4.607E+06 4.393E+06 4.239E+06 4.114E+06 3.975E+06
ADS ON SOIL 2.495E+07 2.492E+07 2.493E+07 2.497E+07 2.518E+07 2.542E+07 2.569E+07 2.582E+07 2.591E+07 2.602E+07 2.605E+07 2.609E+07
IN SOIL AIR 7.386E+06 7.200E+06 6.963E+06 6.375E+06 6.397E+06 6.604E+06 6.852E+06 7.082E+06 7.214E+06 7.258E+06 7.356E+06 7.493E+06

SUBLAYER 8

IN SOIL MOI 3.571E+06 3.925E+06 4.321E+06 5.190E+06 5.237E+06 5.061E+06 4.708E+06 4.400E+06 4.195E+06 4.047E+06 3.928E+06 3.793E+06
ADS ON SOIL 2.432E+07 2.426E+07 2.421E+07 2.413E+07 2.422E+07 2.435E+07 2.455E+07 2.465E+07 2.474E+07 2.484E+07 2.487E+07 2.490E+07
IN SOIL AIR 7.202E+06 7.008E+06 6.764E+06 6.162E+06 6.154E+06 6.326E+06 6.548E+06 6.763E+06 6.888E+06 6.930E+06 7.023E+06 7.151E+06

SUBLAYER 9

IN SOIL MOI 3.577E+06 3.931E+06 4.326E+06 5.192E+06 5.235E+06 5.056E+06 4.701E+06 4.393E+06 4.188E+06 4.041E+06 3.922E+06 3.787E+06
ADS ON SOIL 2.436E+07 2.429E+07 2.424E+07 2.414E+07 2.421E+07 2.432E+07 2.451E+07 2.462E+07 2.470E+07 2.480E+07 2.483E+07 2.485E+07
IN SOIL AIR 7.214E+06 7.018E+06 6.771E+06 6.164E+06 6.152E+06 6.320E+06 6.538E+06 6.753E+06 6.877E+06 6.919E+06 7.012E+06 7.140E+06

SUBLAYER 10

IN SOIL MOI 4.079E+06 4.481E+06 4.929E+06 5.906E+06 5.946E+06 5.735E+06 5.329E+06 4.978E+06 4.746E+06 4.579E+06 4.444E+06 4.291E+06
ADS ON SOIL 2.778E+07 2.769E+07 2.762E+07 2.746E+07 2.750E+07 2.759E+07 2.779E+07 2.790E+07 2.799E+07 2.811E+07 2.814E+07 2.816E+07
IN SOIL AIR 8.226E+06 8.000E+06 7.716E+06 7.012E+06 6.987E+06 7.169E+06 7.411E+06 7.653E+06 7.793E+06 7.841E+06 7.945E+06 8.090E+06
GWR. RUNOFF 0.000E+00 0.000E+00 3.241E+04 3.848E+05 4.115E+05 3.205E+05 1.690E+05 7.088E+04 2.609E+04 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
SORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10

SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.341E+00 3.315E+00 3.289E+00 3.242E+00 3.229E+00 3.222E+00 3.236E+00 3.247E+00 3.258E+00 3.272E+00 3.275E+00 3.275E+00
%SOLUBILITY 1.392E+00 1.381E+00 1.370E+00 1.351E+00 1.345E+00 1.343E+00 1.348E+00 1.353E+00 1.357E+00 1.363E+00 1.364E+00 1.365E+00
ADSORBED 1.131E+00 1.122E+00 1.113E+00 1.098E+00 1.093E+00 1.091E+00 1.095E+00 1.099E+00 1.103E+00 1.107E+00 1.109E+00 1.109E+00
SOIL AIR 2.423E+00 2.434E+00 2.439E+00 2.435E+00 2.420E+00 2.411E+00 2.376E+00 2.365E+00 2.353E+00 2.327E+00 2.328E+00 2.336E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.106E+00 2.102E+00 2.099E+00 2.091E+00 2.098E+00 2.107E+00 2.123E+00 2.132E+00 2.139E+00 2.148E+00 2.151E+00 2.153E+00
%SOLUBILITY 8.776E-01 8.757E-01 8.744E-01 8.713E-01 8.742E-01 8.780E-01 8.848E-01 8.884E-01 8.914E-01 8.952E-01 8.963E-01 8.969E-01
ADSORBED 7.130E-01 7.115E-01 7.104E-01 7.079E-01 7.102E-01 7.133E-01 7.188E-01 7.218E-01 7.242E-01 7.273E-01 7.282E-01 7.287E-01
SOIL AIR 1.527E+00 1.544E+00 1.556E+00 1.570E+00 1.573E+00 1.577E+00 1.559E+00 1.553E+00 1.545E+00 1.528E+00 1.529E+00 1.535E+00

SUBLAYER 2

MOISTURE 1.463E+00 1.473E+00 1.486E+00 1.508E+00 1.535E+00 1.560E+00 1.582E+00 1.590E+00 1.596E+00 1.603E+00 1.606E+00 1.609E+00
%SOLUBILITY 6.094E-01 6.137E-01 6.190E-01 6.284E-01 6.394E-01 6.498E-01 6.590E-01 6.627E-01 6.650E-01 6.680E-01 6.691E-01 6.703E-01
ADSORBED 4.951E-01 4.986E-01 5.029E-01 5.106E-01 5.195E-01 5.279E-01 5.354E-01 5.384E-01 5.403E-01 5.427E-01 5.436E-01 5.446E-01
SOIL AIR 1.061E+00 1.082E+00 1.102E+00 1.133E+00 1.150E+00 1.167E+00 1.161E+00 1.158E+00 1.153E+00 1.140E+00 1.141E+00 1.147E+00

SUBLAYER 3

MOISTURE 7.362E-01 7.489E-01 7.637E-01 7.923E-01 8.196E-01 8.445E-01 8.630E-01 8.693E-01 8.728E-01 8.768E-01 8.786E-01 8.814E-01
%SOLUBILITY 3.068E-01 3.120E-01 3.182E-01 3.301E-01 3.415E-01 3.519E-01 3.596E-01 3.622E-01 3.637E-01 3.653E-01 3.661E-01 3.673E-01
ADSORBED 2.492E-01 2.535E-01 2.585E-01 2.682E-01 2.774E-01 2.859E-01 2.922E-01 2.943E-01 2.955E-01 2.968E-01 2.974E-01 2.984E-01
SOIL AIR 5.339E-01 5.500E-01 5.663E-01 5.950E-01 6.144E-01 6.320E-01 6.335E-01 6.331E-01 6.304E-01 6.237E-01 6.245E-01 6.286E-01

SUBLAYER 4

MOISTURE 2.924E-01 2.995E-01 3.079E-01 3.250E-01 3.410E-01 3.556E-01 3.658E-01 3.691E-01 3.707E-01 3.725E-01 3.733E-01 3.749E-01
%SOLUBILITY 1.218E-01 1.248E-01 1.283E-01 1.354E-01 1.421E-01 1.482E-01 1.524E-01 1.538E-01 1.545E-01 1.552E-01 1.556E-01 1.562E-01
ADSORBED 9.898E-02 1.014E-01 1.042E-01 1.100E-01 1.154E-01 1.204E-01 1.238E-01 1.249E-01 1.255E-01 1.261E-01 1.264E-01 1.269E-01
SOIL AIR 2.120E-01 2.200E-01 2.283E-01 2.441E-01 2.556E-01 2.661E-01 2.685E-01 2.688E-01 2.677E-01 2.649E-01 2.654E-01 2.674E-01

SUBLAYER 5

MOISTURE 1.150E-01 1.175E-01 1.204E-01 1.267E-01 1.329E-01 1.387E-01 1.428E-01 1.441E-01 1.447E-01 1.454E-01 1.458E-01 1.464E-01
%SOLUBILITY 4.794E-02 4.894E-02 5.016E-02 5.281E-02 5.540E-02 5.780E-02 5.949E-02 6.003E-02 6.031E-02 6.059E-02 6.073E-02 6.099E-02
ADSORBED 3.895E-02 3.976E-02 4.075E-02 4.291E-02 4.501E-02 4.696E-02 4.833E-02 4.877E-02 4.900E-02 4.923E-02 4.934E-02 4.955E-02
SOIL AIR 8.343E-02 8.627E-02 8.928E-02 9.519E-02 9.966E-02 1.038E-01 1.048E-01 1.049E-01 1.045E-01 1.034E-01 1.036E-01 1.044E-01

SUBLAYER 6

MOISTURE 6.528E-02 6.574E-02 6.637E-02 6.785E-02 6.962E-02 7.135E-02 7.273E-02 7.324E-02 7.354E-02 7.387E-02 7.401E-02 7.420E-02
%SOLUBILITY 2.720E-02 2.739E-02 2.765E-02 2.827E-02 2.901E-02 2.973E-02 3.030E-02 3.052E-02 3.064E-02 3.078E-02 3.084E-02 3.092E-02
ADSORBED 2.210E-02 2.225E-02 2.247E-02 2.297E-02 2.357E-02 2.415E-02 2.462E-02 2.479E-02 2.489E-02 2.501E-02 2.505E-02 2.512E-02
SOIL AIR 4.734E-02 4.828E-02 4.922E-02 5.096E-02 5.219E-02 5.339E-02 5.339E-02 5.334E-02 5.311E-02 5.254E-02 5.260E-02 5.292E-02

SUBLAYER 7

MOISTURE 5.520E-02 5.515E-02 5.516E-02 5.524E-02 5.571E-02 5.624E-02 5.684E-02 5.712E-02 5.732E-02 5.757E-02 5.765E-02 5.772E-02
%SOLUBILITY 2.300E-02 2.298E-02 2.298E-02 2.302E-02 2.321E-02 2.343E-02 2.368E-02 2.380E-02 2.388E-02 2.399E-02 2.402E-02 2.405E-02
ADSORBED 1.869E-02 1.867E-02 1.867E-02 1.870E-02 1.886E-02 1.904E-02 1.924E-02 1.934E-02 1.940E-02 1.949E-02 1.952E-02 1.954E-02
SOIL AIR 4.003E-02 4.050E-02 4.090E-02 4.149E-02 4.177E-02 4.208E-02 4.173E-02 4.160E-02 4.140E-02 4.095E-02 4.098E-02 4.117E-02

SUBLAYER 8

MOISTURE 5.382E-02 5.368E-02 5.358E-02 5.339E-02 5.360E-02 5.387E-02 5.432E-02 5.455E-02 5.473E-02 5.497E-02 5.504E-02 5.509E-02
%SOLUBILITY 2.243E-02 2.237E-02 2.233E-02 2.225E-02 2.233E-02 2.245E-02 2.263E-02 2.273E-02 2.281E-02 2.290E-02 2.293E-02 2.295E-02
ADSORBED 1.822E-02 1.817E-02 1.814E-02 1.807E-02 1.814E-02 1.824E-02 1.839E-02 1.847E-02 1.853E-02 1.861E-02 1.863E-02 1.865E-02
SOIL AIR 3.903E-02 3.943E-02 3.973E-02 4.010E-02 4.018E-02 4.031E-02 3.987E-02 3.973E-02 3.953E-02 3.910E-02 3.912E-02 3.929E-02

SUBLAYER 9

MOISTURE 5.391E-02 5.375E-02 5.364E-02 5.341E-02 5.358E-02 5.382E-02 5.424E-02 5.447E-02 5.465E-02 5.488E-02 5.495E-02 5.500E-02
%SOLUBILITY 2.246E-02 2.240E-02 2.235E-02 2.225E-02 2.232E-02 2.242E-02 2.260E-02 2.270E-02 2.277E-02 2.287E-02 2.290E-02 2.292E-02
ADSORBED 1.825E-02 1.820E-02 1.816E-02 1.808E-02 1.814E-02 1.822E-02 1.836E-02 1.844E-02 1.850E-02 1.858E-02 1.860E-02 1.862E-02
SOIL AIR 3.909E-02 3.948E-02 3.978E-02 4.011E-02 4.016E-02 4.027E-02 3.982E-02 3.967E-02 3.947E-02 3.904E-02 3.906E-02 3.922E-02

SUBLAYER 10

MOISTURE 6.147E-02 6.128E-02 6.112E-02 6.075E-02 6.085E-02 6.105E-02 6.148E-02 6.173E-02 6.193E-02 6.219E-02 6.227E-02 6.232E-02
%SOLUBILITY 2.561E-02 2.553E-02 2.547E-02 2.531E-02 2.535E-02 2.544E-02 2.562E-02 2.572E-02 2.580E-02 2.591E-02 2.594E-02 2.596E-02
ADSORBED 2.081E-02 2.074E-02 2.069E-02 2.057E-02 2.060E-02 2.067E-02 2.081E-02 2.090E-02 2.096E-02 2.105E-02 2.108E-02 2.110E-02
SOIL AIR 4.458E-02 4.501E-02 4.533E-02 4.563E-02 4.562E-02 4.568E-02 4.513E-02 4.496E-02 4.472E-02 4.423E-02 4.426E-02 4.444E-02

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.265E-05 1.499E-04 1.602E-04 1.248E-04 6.586E-05 2.763E-05 1.017E-05 0.000E+00 0.000E+00 0.000E+00

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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.415E+06

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.267E+00
ADSORBED SOIL (UG/G) 1.106E+00
SOIL AIR (UG/ML) 2.387E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.121E+00

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                ADSORBED SOIL (UG/G)  7.179E-01
                SOIL AIR (UG/ML)      1.550E+00

    SUBLAYER  2

                SOIL MOISTURE (UG/ML) 1.551E+00
                ADSORBED SOIL (UG/G)  5.250E-01
                SOIL AIR (UG/ML)      1.133E+00

    SUBLAYER  3

                SOIL MOISTURE (UG/ML) 8.289E-01
                ADSORBED SOIL (UG/G)  2.806E-01
                SOIL AIR (UG/ML)      6.055E-01

    SUBLAYER  4

                SOIL MOISTURE (UG/ML) 3.456E-01
                ADSORBED SOIL (UG/G)  1.170E-01
                SOIL AIR (UG/ML)      2.524E-01

    SUBLAYER  5

                SOIL MOISTURE (UG/ML) 1.350E-01
                ADSORBED SOIL (UG/G)  4.571E-02
                SOIL AIR (UG/ML)      9.861E-02

    SUBLAYER  6

                SOIL MOISTURE (UG/ML) 7.065E-02
                ADSORBED SOIL (UG/G)  2.392E-02
                SOIL AIR (UG/ML)      5.161E-02

    SUBLAYER  7

                SOIL MOISTURE (UG/ML) 5.641E-02
                ADSORBED SOIL (UG/G)  1.910E-02
                SOIL AIR (UG/ML)      4.122E-02

    SUBLAYER  8

                SOIL MOISTURE (UG/ML) 5.422E-02
                ADSORBED SOIL (UG/G)  1.835E-02
                SOIL AIR (UG/ML)      3.962E-02

    SUBLAYER  9

                SOIL MOISTURE (UG/ML) 5.419E-02
                ADSORBED SOIL (UG/G)  1.834E-02
                SOIL AIR (UG/ML)      3.960E-02

    SUBLAYER 10

                SOIL MOISTURE (UG/ML) 6.154E-02
                ADSORBED SOIL (UG/G)  2.083E-02
                SOIL AIR (UG/ML)      4.497E-02


                MAX. POLL. DEPTH (M)  1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML)  4.594E-05

EAR -  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 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.092E+09	1.193E+09	1.306E+09	1.552E+09	1.553E+09	1.490E+09	1.381E+09	1.289E+09	1.229E+09	1.186E+09	1.151E+09	1.110E+09
ADS ON SOIL	7.435E+09	7.375E+09	7.317E+09	7.214E+09	7.184E+09	7.170E+09	7.200E+09	7.226E+09	7.249E+09	7.279E+09	7.286E+09	7.287E+09
IN SOIL AIR	2.201E+09	2.131E+09	2.044E+09	1.842E+09	1.825E+09	1.863E+09	1.921E+09	1.982E+09	2.018E+09	2.031E+09	2.057E+09	2.093E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.360E+08	1.489E+08	1.631E+08	1.941E+08	1.945E+08	1.867E+08	1.731E+08	1.616E+08	1.541E+08	1.486E+08	1.442E+08	1.392E+08
ADS ON SOIL	9.265E+08	9.201E+08	9.141E+08	9.025E+08	8.995E+08	8.984E+08	9.026E+08	9.057E+08	9.086E+08	9.124E+08	9.134E+08	9.135E+08
IN SOIL AIR	2.743E+08	2.658E+08	2.553E+08	2.305E+08	2.285E+08	2.334E+08	2.407E+08	2.485E+08	2.530E+08	2.545E+08	2.579E+08	2.624E+08

SUBLAYER 2

SOIL MOI 1.458E+08 1.600E+08 1.758E+08 2.102E+08 2.113E+08 2.036E+08 1.890E+08 1.765E+08 1.683E+08 1.624E+08 1.576E+08 1.521E+08
ON SOIL 9.934E+08 9.890E+08 9.851E+08 9.773E+08 9.775E+08 9.793E+08 9.855E+08 9.893E+08 9.925E+08 9.967E+08 9.979E+08 9.984E+08
SOIL AIR 2.941E+08 2.857E+08 2.752E+08 2.496E+08 2.484E+08 2.545E+08 2.629E+08 2.714E+08 2.764E+08 2.781E+08 2.817E+08 2.868E+08

SUBLAYER 3

IN SOIL MOI 1.305E+08 1.437E+08 1.586E+08 1.912E+08 1.934E+08 1.873E+08 1.744E+08 1.630E+08 1.554E+08 1.500E+08 1.456E+08 1.406E+08
ADS ON SOIL 8.888E+08 8.884E+08 8.887E+08 8.890E+08 8.947E+08 9.011E+08 9.095E+08 9.136E+08 9.167E+08 9.206E+08 9.218E+08 9.228E+08
IN SOIL AIR 2.632E+08 2.566E+08 2.482E+08 2.270E+08 2.273E+08 2.342E+08 2.426E+08 2.506E+08 2.553E+08 2.568E+08 2.603E+08 2.651E+08

SUBLAYER 4

IN SOIL MOI 9.346E+07 1.034E+08 1.147E+08 1.397E+08 1.425E+08 1.390E+08 1.299E+08 1.215E+08 1.159E+08 1.118E+08 1.086E+08 1.049E+08
ADS ON SOIL 6.366E+08 6.392E+08 6.428E+08 6.497E+08 6.593E+08 6.685E+08 6.773E+08 6.809E+08 6.834E+08 6.864E+08 6.874E+08 6.886E+08
IN SOIL AIR 1.885E+08 1.847E+08 1.796E+08 1.659E+08 1.675E+08 1.737E+08 1.806E+08 1.868E+08 1.903E+08 1.915E+08 1.941E+08 1.978E+08

SUBLAYER 5

IN SOIL MOI 5.318E+07 5.912E+07 6.590E+07 8.119E+07 8.354E+07 8.207E+07 7.702E+07 7.213E+07 6.880E+07 6.640E+07 6.447E+07 6.235E+07
ADS ON SOIL 3.622E+08 3.654E+08 3.693E+08 3.774E+08 3.864E+08 3.948E+08 4.016E+08 4.042E+08 4.057E+08 4.076E+08 4.082E+08 4.092E+08
IN SOIL AIR 1.073E+08 1.055E+08 1.032E+08 9.639E+07 9.818E+07 1.026E+08 1.071E+08 1.109E+08 1.130E+08 1.137E+08 1.153E+08 1.175E+08

SUBLAYER 6

IN SOIL MOI 2.483E+07 2.768E+07 3.097E+07 3.849E+07 3.992E+07 3.946E+07 3.717E+07 3.484E+07 3.324E+07 3.208E+07 3.115E+07 3.014E+07
ADS ON SOIL 1.691E+08 1.711E+08 1.735E+08 1.790E+08 1.846E+08 1.898E+08 1.938E+08 1.952E+08 1.960E+08 1.969E+08 1.973E+08 1.978E+08
IN SOIL AIR 5.007E+07 4.942E+07 4.847E+07 4.570E+07 4.691E+07 4.933E+07 5.169E+07 5.356E+07 5.459E+07 5.494E+07 5.570E+07 5.683E+07

SUBLAYER 7

IN SOIL MOI 1.081E+07 1.203E+07 1.345E+07 1.672E+07 1.736E+07 1.718E+07 1.619E+07 1.518E+07 1.448E+07 1.398E+07 1.357E+07 1.313E+07
ADS ON SOIL 7.361E+07 7.437E+07 7.536E+07 7.772E+07 8.027E+07 8.263E+07 8.440E+07 8.505E+07 8.542E+07 8.581E+07 8.596E+07 8.619E+07
IN SOIL AIR 2.180E+07 2.148E+07 2.105E+07 1.985E+07 2.040E+07 2.147E+07 2.251E+07 2.333E+07 2.379E+07 2.394E+07 2.427E+07 2.476E+07

SUBLAYER 8

IN SOIL MOI 5.815E+06 6.432E+06 7.136E+06 8.740E+06 8.972E+06 8.797E+06 8.249E+06 7.727E+06 7.371E+06 7.113E+06 6.906E+06 6.676E+06
ADS ON SOIL 3.961E+07 3.975E+07 3.999E+07 4.063E+07 4.150E+07 4.232E+07 4.301E+07 4.330E+07 4.347E+07 4.366E+07 4.373E+07 4.381E+07
IN SOIL AIR 1.173E+07 1.148E+07 1.117E+07 1.038E+07 1.054E+07 1.100E+07 1.147E+07 1.188E+07 1.210E+07 1.218E+07 1.235E+07 1.259E+07

SUBLAYER 9

IN SOIL MOI 4.542E+06 4.999E+06 5.512E+06 6.651E+06 6.742E+06 6.541E+06 6.098E+06 5.702E+06 5.438E+06 5.247E+06 5.093E+06 4.919E+06
ADS ON SOIL 3.094E+07 3.089E+07 3.088E+07 3.092E+07 3.119E+07 3.147E+07 3.179E+07 3.195E+07 3.207E+07 3.221E+07 3.225E+07 3.228E+07
IN SOIL AIR 9.161E+06 8.925E+06 8.627E+06 7.897E+06 7.923E+06 8.176E+06 8.480E+06 8.766E+06 8.929E+06 8.984E+06 9.105E+06 9.273E+06

SUBLAYER 10

IN SOIL MOI 4.672E+06 5.134E+06 5.649E+06 6.778E+06 6.833E+06 6.599E+06 6.135E+06 5.733E+06 5.466E+06 5.273E+06 5.118E+06 4.942E+06
ADS ON SOIL 3.182E+07 3.173E+07 3.166E+07 3.151E+07 3.161E+07 3.174E+07 3.199E+07 3.212E+07 3.223E+07 3.237E+07 3.241E+07 3.244E+07
IN SOIL AIR 9.422E+06 9.165E+06 8.843E+06 8.047E+06 8.030E+06 8.248E+06 8.533E+06 8.813E+06 8.975E+06 9.030E+06 9.151E+06 9.317E+06
GWR. RUNOFF 0.000E+00 0.000E+00 3.714E+04 4.414E+05 4.726E+05 3.685E+05 1.945E+05 8.161E+04 3.005E+04 0.000E+00 0.000E+00 0.000E+00

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

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.659E+00 2.637E+00 2.617E+00 2.580E+00 2.569E+00 2.564E+00 2.575E+00 2.584E+00 2.592E+00 2.603E+00 2.606E+00 2.606E+00
%SOLUBILITY 1.108E+00 1.099E+00 1.090E+00 1.075E+00 1.070E+00 1.068E+00 1.073E+00 1.077E+00 1.080E+00 1.085E+00 1.086E+00 1.086E+00
ADSORBED 9.000E-01 8.928E-01 8.858E-01 8.733E-01 8.697E-01 8.680E-01 8.717E-01 8.747E-01 8.775E-01 8.812E-01 8.821E-01 8.821E-01
SOIL AIR 1.928E+00 1.937E+00 1.941E+00 1.937E+00 1.926E+00 1.919E+00 1.890E+00 1.882E+00 1.872E+00 1.851E+00 1.852E+00 1.859E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.050E+00 2.036E+00 2.023E+00 1.997E+00 1.990E+00 1.988E+00 1.997E+00 2.004E+00 2.010E+00 2.019E+00 2.021E+00 2.021E+00
%SOLUBILITY 8.542E-01 8.483E-01 8.427E-01 8.320E-01 8.293E-01 8.283E-01 8.321E-01 8.350E-01 8.377E-01 8.412E-01 8.421E-01 8.422E-01
ADSORBED 6.940E-01 6.892E-01 6.847E-01 6.760E-01 6.737E-01 6.729E-01 6.761E-01 6.784E-01 6.806E-01 6.835E-01 6.841E-01 6.843E-01
SOIL AIR 1.487E+00 1.495E+00 1.500E+00 1.500E+00 1.492E+00 1.487E+00 1.466E+00 1.460E+00 1.452E+00 1.436E+00 1.437E+00 1.442E+00

SUBLAYER 2

MOISTURE 2.198E+00 2.188E+00 2.180E+00 2.162E+00 2.163E+00 2.167E+00 2.181E+00 2.189E+00 2.196E+00 2.205E+00 2.208E+00 2.209E+00
%SOLUBILITY 9.158E-01 9.118E-01 9.082E-01 9.010E-01 9.012E-01 9.029E-01 9.086E-01 9.121E-01 9.150E-01 9.189E-01 9.200E-01 9.205E-01
ADSORBED 7.441E-01 7.408E-01 7.379E-01 7.320E-01 7.322E-01 7.335E-01 7.382E-01 7.410E-01 7.434E-01 7.466E-01 7.474E-01 7.478E-01
SOIL AIR 1.594E+00 1.607E+00 1.616E+00 1.624E+00 1.621E+00 1.621E+00 1.601E+00 1.594E+00 1.586E+00 1.569E+00 1.569E+00 1.576E+00

SUBLAYER 3

MOISTURE 1.967E+00 1.966E+00 1.966E+00 1.967E+00 1.980E+00 1.994E+00 2.012E+00 2.021E+00 2.028E+00 2.037E+00 2.040E+00 2.042E+00
%SOLUBILITY 8.194E-01 8.190E-01 8.193E-01 8.196E-01 8.249E-01 8.308E-01 8.385E-01 8.423E-01 8.451E-01 8.488E-01 8.499E-01 8.508E-01
ADSORBED 6.658E-01 6.654E-01 6.657E-01 6.659E-01 6.702E-01 6.750E-01 6.813E-01 6.843E-01 6.866E-01 6.896E-01 6.905E-01 6.912E-01
SOIL AIR 1.426E+00 1.444E+00 1.458E+00 1.477E+00 1.484E+00 1.492E+00 1.477E+00 1.472E+00 1.465E+00 1.449E+00 1.450E+00 1.456E+00

SUBLAYER 4

MOISTURE 1.409E+00 1.414E+00 1.422E+00 1.438E+00 1.459E+00 1.479E+00 1.499E+00 1.507E+00 1.512E+00 1.519E+00 1.521E+00 1.524E+00
%SOLUBILITY 5.869E-01 5.893E-01 5.926E-01 5.990E-01 6.078E-01 6.164E-01 6.244E-01 6.278E-01 6.300E-01 6.328E-01 6.338E-01 6.348E-01
ADSORBED 4.768E-01 4.788E-01 4.815E-01 4.867E-01 4.938E-01 5.008E-01 5.073E-01 5.100E-01 5.119E-01 5.141E-01 5.149E-01 5.158E-01
SOIL AIR 1.021E+00 1.039E+00 1.055E+00 1.080E+00 1.094E+00 1.107E+00 1.100E+00 1.097E+00 1.092E+00 1.080E+00 1.081E+00 1.087E+00

SUBLAYER 5

MOISTURE 8.015E-01 8.085E-01 8.172E-01 8.352E-01 8.550E-01 8.736E-01 8.886E-01 8.943E-01 8.978E-01 9.018E-01 9.033E-01 9.054E-01
%SOLUBILITY 3.340E-01 3.369E-01 3.405E-01 3.480E-01 3.563E-01 3.640E-01 3.703E-01 3.726E-01 3.741E-01 3.757E-01 3.764E-01 3.773E-01
ADSORBED 2.713E-01 2.737E-01 2.766E-01 2.827E-01 2.894E-01 2.957E-01 3.008E-01 3.027E-01 3.039E-01 3.053E-01 3.058E-01 3.065E-01
SOIL AIR 5.812E-01 5.938E-01 6.060E-01 6.272E-01 6.410E-01 6.537E-01 6.523E-01 6.513E-01 6.484E-01 6.414E-01 6.421E-01 6.458E-01

SUBLAYER 6

MOISTURE 3.742E-01 3.785E-01 3.840E-01 3.960E-01 4.085E-01 4.201E-01 4.288E-01 4.320E-01 4.338E-01 4.357E-01 4.365E-01 4.378E-01
%SOLUBILITY 1.559E-01 1.577E-01 1.600E-01 1.650E-01 1.702E-01 1.750E-01 1.787E-01 1.800E-01 1.807E-01 1.816E-01 1.819E-01 1.824E-01
ADSORBED 1.267E-01 1.281E-01 1.300E-01 1.340E-01 1.383E-01 1.422E-01 1.452E-01 1.462E-01 1.468E-01 1.475E-01 1.478E-01 1.482E-01
SOIL AIR 2.713E-01 2.780E-01 2.848E-01 2.974E-01 3.062E-01 3.143E-01 3.148E-01 3.146E-01 3.133E-01 3.099E-01 3.103E-01 3.122E-01

SUBLAYER 7

MOISTURE 1.629E-01 1.646E-01 1.667E-01 1.720E-01 1.776E-01 1.828E-01 1.868E-01 1.882E-01 1.890E-01 1.899E-01 1.902E-01 1.907E-01
%SOLUBILITY 6.786E-02 6.857E-02 6.948E-02 7.166E-02 7.401E-02 7.618E-02 7.782E-02 7.842E-02 7.875E-02 7.911E-02 7.925E-02 7.947E-02
ADSORBED 5.514E-02 5.571E-02 5.645E-02 5.822E-02 6.013E-02 6.189E-02 6.322E-02 6.371E-02 6.398E-02 6.427E-02 6.439E-02 6.456E-02
SOIL AIR 1.181E-01 1.209E-01 1.237E-01 1.292E-01 1.332E-01 1.368E-01 1.371E-01 1.371E-01 1.365E-01 1.350E-01 1.352E-01 1.360E-01

SUBLAYER 8

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MOISTURE    8.764E-02 8.797E-02 8.848E-02 8.991E-02 9.182E-02 9.364E-02 9.518E-02 9.580E-02 9.619E-02 9.661E-02 9.677E-02 9.695E-02
%SOLUBILITY 3.652E-02 3.665E-02 3.686E-02 3.746E-02 3.826E-02 3.902E-02 3.966E-02 3.992E-02 4.008E-02 4.026E-02 4.032E-02 4.039E-02
ADSORBED    2.967E-02 2.978E-02 2.995E-02 3.044E-02 3.108E-02 3.170E-02 3.222E-02 3.243E-02 3.256E-02 3.271E-02 3.276E-02 3.282E-02
SOIL AIR    6.355E-02 6.461E-02 6.561E-02 6.752E-02 6.883E-02 7.007E-02 6.987E-02 6.978E-02 6.947E-02 6.872E-02 6.878E-02 6.914E-02

      SUBLAYER 9

MOISTURE    6.846E-02 6.836E-02 6.834E-02 6.843E-02 6.900E-02 6.963E-02 7.035E-02 7.070E-02 7.095E-02 7.126E-02 7.136E-02 7.143E-02
%SOLUBILITY 2.852E-02 2.848E-02 2.847E-02 2.851E-02 2.875E-02 2.901E-02 2.931E-02 2.946E-02 2.956E-02 2.969E-02 2.973E-02 2.976E-02
ADSORBED    2.317E-02 2.314E-02 2.313E-02 2.316E-02 2.336E-02 2.357E-02 2.382E-02 2.393E-02 2.402E-02 2.412E-02 2.416E-02 2.418E-02
SOIL AIR    4.964E-02 5.021E-02 5.068E-02 5.139E-02 5.173E-02 5.210E-02 5.164E-02 5.149E-02 5.125E-02 5.069E-02 5.072E-02 5.095E-02

      SUBLAYER 10

MOISTURE    7.041E-02 7.020E-02 7.005E-02 6.973E-02 6.993E-02 7.024E-02 7.079E-02 7.108E-02 7.132E-02 7.163E-02 7.171E-02 7.177E-02
%SOLUBILITY 2.934E-02 2.925E-02 2.919E-02 2.905E-02 2.914E-02 2.927E-02 2.949E-02 2.962E-02 2.972E-02 2.984E-02 2.988E-02 2.990E-02
ADSORBED    2.383E-02 2.377E-02 2.371E-02 2.360E-02 2.367E-02 2.378E-02 2.396E-02 2.406E-02 2.414E-02 2.425E-02 2.428E-02 2.430E-02
SOIL AIR    5.106E-02 5.156E-02 5.195E-02 5.236E-02 5.243E-02 5.256E-02 5.196E-02 5.177E-02 5.151E-02 5.094E-02 5.098E-02 5.119E-02


POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03


   -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 1.450E-05 1.721E-04 1.841E-04 1.436E-04 7.583E-05 3.182E-05 1.172E-05 0.000E+00 0.000E+00 0.000E+00
1                    YEAR -  20 ANNUAL SUMMARY REPORT
                     ================================


    -- TOTAL INPUTS (UG) --


UPPER SOIL ZONE          0.000E+00
L 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 (%)            8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                   32.338
TOTAL INFILTRATION (CM)                    25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                   6.491
TOTAL GRW RUNOFF (CM)                       1.265
TOTAL MOISTURE RETENTION (CM)               0.001
TOTAL YIELD (CM)                            7.763
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)
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   UPPER SOIL ZONE:

      SUBLAYER 1


   SOIL ZONE 2:

      SUBLAYER 1


   SOIL ZONE 3:
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SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.626E+06

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.599E+00
ADSORBED SOIL (UG/G) 8.799E-01
SOIL AIR (UG/ML) 1.900E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.013E+00
ADSORBED SOIL (UG/G) 6.814E-01
SOIL AIR (UG/ML) 1.471E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.187E+00
ADSORBED SOIL (UG/G) 7.404E-01
SOIL AIR (UG/ML) 1.598E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.002E+00
ADSORBED SOIL (UG/G) 6.776E-01
SOIL AIR (UG/ML) 1.463E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.475E+00
ADSORBED SOIL (UG/G) 4.994E-01
SOIL AIR (UG/ML) 1.078E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 8.652E-01
ADSORBED SOIL (UG/G) 2.929E-01
SOIL AIR (UG/ML) 6.320E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.138E-01
ADSORBED SOIL (UG/G) 1.401E-01
SOIL AIR (UG/ML) 3.023E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.801E-01
ADSORBED SOIL (UG/G) 6.097E-02
SOIL AIR (UG/ML) 1.316E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 9.308E-02
ADSORBED SOIL (UG/G) 3.151E-02
SOIL AIR (UG/ML) 6.800E-02

SUBLAYER 9

SOIL MOISTURE (UG/ML) 6.986E-02
ADSORBED SOIL (UG/G) 2.365E-02
SOIL AIR (UG/ML) 5.104E-02

SUBLAYER 10

SOIL MOISTURE (UG/ML) 7.074E-02
ADSORBED SOIL (UG/G) 2.395E-02
SOIL AIR (UG/ML) 5.169E-02

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 5.281E-05

YEAR - 30 MONTHLY RESULTS (OUTPUT)
======== ==========

- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	8.684E+08	9.494E+08	1.039E+09	1.234E+09	1.236E+09	1.186E+09	1.099E+09	1.026E+09	9.779E+08	9.434E+08	9.154E+08	8.833E+08
ADS ON SOIL	5.915E+09	5.868E+09	5.822E+09	5.739E+09	5.716E+09	5.704E+09	5.729E+09	5.749E+09	5.767E+09	5.791E+09	5.797E+09	5.797E+09
IN SOIL AIR	1.751E+09	1.695E+09	1.626E+09	1.466E+09	1.452E+09	1.482E+09	1.528E+09	1.577E+09	1.606E+09	1.616E+09	1.637E+09	1.665E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.116E+08	1.221E+08	1.337E+08	1.589E+08	1.590E+08	1.526E+08	1.413E+08	1.320E+08	1.258E+08	1.214E+08	1.178E+08	1.136E+08
ADS ON SOIL	7.602E+08	7.545E+08	7.490E+08	7.385E+08	7.354E+08	7.339E+08	7.370E+08	7.396E+08	7.419E+08	7.450E+08	7.457E+08	7.458E+08
IN SOIL AIR	2.251E+08	2.179E+08	2.092E+08	1.886E+08	1.868E+08	1.907E+08	1.966E+08	2.029E+08	2.066E+08	2.078E+08	2.106E+08	2.142E+08

SUBLAYER 2

IN SOIL MOI	1.347E+08	1.474E+08	1.615E+08	1.922E+08	1.926E+08	1.849E+08	1.714E+08	1.601E+08	1.526E+08	1.472E+08	1.428E+08	1.378E+08

ADS ON SOIL 9.173E+08 9.112E+08 9.052E+08 8.938E+08 8.907E+08 8.897E+08 8.938E+08 8.969E+08 8.998E+08 9.036E+08 9.045E+08 9.047E+08
SOIL AIR 2.716E+08 2.632E+08 2.529E+08 2.282E+08 2.263E+08 2.312E+08 2.384E+08 2.461E+08 2.505E+08 2.521E+08 2.554E+08 2.599E+08

SUBLAYER 3

IN SOIL MOI 1.515E+08 1.661E+08 1.823E+08 2.177E+08 2.186E+08 2.104E+08 1.952E+08 1.823E+08 1.738E+08 1.677E+08 1.627E+08 1.571E+08
ADS ON SOIL 1.032E+09 1.026E+09 1.022E+09 1.012E+09 1.011E+09 1.012E+09 1.018E+09 1.022E+09 1.025E+09 1.029E+09 1.031E+09 1.031E+09
IN SOIL AIR 3.055E+08 2.965E+08 2.854E+08 2.584E+08 2.569E+08 2.630E+08 2.715E+08 2.803E+08 2.854E+08 2.872E+08 2.910E+08 2.962E+08

SUBLAYER 4

IN SOIL MOI 1.491E+08 1.639E+08 1.804E+08 2.166E+08 2.184E+08 2.110E+08 1.961E+08 1.833E+08 1.747E+08 1.686E+08 1.636E+08 1.580E+08
ADS ON SOIL 1.016E+09 1.013E+09 1.011E+09 1.007E+09 1.010E+09 1.015E+09 1.023E+09 1.027E+09 1.030E+09 1.035E+09 1.036E+09 1.037E+09
IN SOIL AIR 3.007E+08 2.926E+08 2.824E+08 2.572E+08 2.567E+08 2.637E+08 2.728E+08 2.817E+08 2.869E+08 2.887E+08 2.925E+08 2.979E+08

SUBLAYER 5

IN SOIL MOI 1.224E+08 1.349E+08 1.491E+08 1.802E+08 1.827E+08 1.773E+08 1.653E+08 1.545E+08 1.474E+08 1.422E+08 1.380E+08 1.333E+08
ADS ON SOIL 8.336E+08 8.340E+08 8.353E+08 8.378E+08 8.453E+08 8.530E+08 8.619E+08 8.660E+08 8.690E+08 8.728E+08 8.740E+08 8.750E+08
IN SOIL AIR 2.468E+08 2.409E+08 2.333E+08 2.139E+08 2.148E+08 2.216E+08 2.299E+08 2.376E+08 2.420E+08 2.435E+08 2.468E+08 2.513E+08

SUBLAYER 6

IN SOIL MOI 8.144E+07 9.007E+07 9.984E+07 1.217E+08 1.242E+08 1.211E+08 1.133E+08 1.060E+08 1.011E+08 9.752E+07 9.467E+07 9.150E+07
ADS ON SOIL 5.547E+08 5.567E+08 5.595E+08 5.656E+08 5.744E+08 5.828E+08 5.906E+08 5.938E+08 5.960E+08 5.986E+08 5.995E+08 6.005E+08
IN SOIL AIR 1.643E+08 1.608E+08 1.563E+08 1.444E+08 1.459E+08 1.514E+08 1.575E+08 1.629E+08 1.660E+08 1.670E+08 1.693E+08 1.725E+08

SUBLAYER 7

IN SOIL MOI 4.374E+07 4.849E+07 5.390E+07 6.618E+07 6.799E+07 6.669E+07 6.253E+07 5.856E+07 5.586E+07 5.391E+07 5.234E+07 5.060E+07
ADS ON SOIL 2.979E+08 2.997E+08 3.021E+08 3.077E+08 3.145E+08 3.208E+08 3.261E+08 3.282E+08 3.294E+08 3.309E+08 3.314E+08 3.321E+08
IN SOIL AIR 8.821E+07 8.657E+07 8.438E+07 7.858E+07 7.990E+07 8.336E+07 8.697E+07 9.002E+07 9.174E+07 9.231E+07 9.358E+07 9.540E+07

SUBLAYER 8

SOIL MOI 1.987E+07 2.204E+07 2.452E+07 3.024E+07 3.119E+07 3.070E+07 2.884E+07 2.703E+07 2.579E+07 2.489E+07 2.417E+07 2.336E+07
ADS ON SOIL 1.354E+08 1.362E+08 1.374E+08 1.406E+08 1.443E+08 1.477E+08 1.504E+08 1.515E+08 1.521E+08 1.528E+08 1.530E+08 1.533E+08
IN SOIL AIR 4.008E+07 3.935E+07 3.839E+07 3.590E+07 3.666E+07 3.838E+07 4.012E+07 4.155E+07 4.235E+07 4.262E+07 4.321E+07 4.405E+07

SUBLAYER 9

IN SOIL MOI 9.225E+06 1.020E+07 1.131E+07 1.386E+07 1.425E+07 1.398E+07 1.312E+07 1.229E+07 1.173E+07 1.131E+07 1.098E+07 1.062E+07
ADS ON SOIL 6.283E+07 6.302E+07 6.335E+07 6.445E+07 6.591E+07 6.727E+07 6.839E+07 6.886E+07 6.915E+07 6.945E+07 6.955E+07 6.967E+07
IN SOIL AIR 1.860E+07 1.821E+07 1.770E+07 1.646E+07 1.675E+07 1.748E+07 1.824E+07 1.889E+07 1.925E+07 1.937E+07 1.964E+07 2.001E+07

SUBLAYER 10

IN SOIL MOI 6.167E+06 6.786E+06 7.482E+06 9.045E+06 9.186E+06 8.925E+06 8.326E+06 7.788E+06 7.428E+06 7.167E+06 6.957E+06 6.719E+06
ADS ON SOIL 4.201E+07 4.194E+07 4.193E+07 4.205E+07 4.249E+07 4.293E+07 4.341E+07 4.364E+07 4.381E+07 4.400E+07 4.405E+07 4.410E+07
IN SOIL AIR 1.244E+07 1.212E+07 1.171E+07 1.074E+07 1.079E+07 1.116E+07 1.158E+07 1.197E+07 1.220E+07 1.227E+07 1.244E+07 1.267E+07
GWR. RUNOFF 0.000E+00 0.000E+00 4.914E+04 5.868E+05 6.331E+05 4.970E+05 2.635E+05 1.108E+05 4.083E+04 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.115E+00 2.098E+00 2.082E+00 2.052E+00 2.044E+00 2.040E+00 2.049E+00 2.056E+00 2.062E+00 2.071E+00 2.073E+00 2.073E+00
%SOLUBILITY 8.814E-01 8.743E-01 8.675E-01 8.552E-01 8.516E-01 8.500E-01 8.536E-01 8.565E-01 8.593E-01 8.629E-01 8.638E-01 8.638E-01
ADSORBED 7.161E-01 7.103E-01 7.048E-01 6.948E-01 6.919E-01 6.906E-01 6.935E-01 6.959E-01 6.981E-01 7.011E-01 7.018E-01 7.018E-01
SOIL AIR 1.534E+00 1.541E+00 1.544E+00 1.541E+00 1.532E+00 1.526E+00 1.504E+00 1.497E+00 1.489E+00 1.473E+00 1.474E+00 1.479E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.682E+00 1.669E+00 1.657E+00 1.634E+00 1.627E+00 1.624E+00 1.631E+00 1.636E+00 1.642E+00 1.648E+00 1.650E+00 1.650E+00
%SOLUBILITY 7.008E-01 6.956E-01 6.905E-01 6.809E-01 6.780E-01 6.766E-01 6.795E-01 6.818E-01 6.840E-01 6.869E-01 6.875E-01 6.876E-01
ADSORBED 5.694E-01 5.651E-01 5.610E-01 5.532E-01 5.508E-01 5.497E-01 5.521E-01 5.540E-01 5.557E-01 5.580E-01 5.586E-01 5.586E-01
SOIL AIR 1.220E+00 1.226E+00 1.229E+00 1.227E+00 1.220E+00 1.215E+00 1.197E+00 1.192E+00 1.186E+00 1.172E+00 1.173E+00 1.177E+00

SUBLAYER 2

MOISTURE 2.030E+00 2.016E+00 2.003E+00 1.978E+00 1.971E+00 1.969E+00 1.978E+00 1.985E+00 1.991E+00 1.999E+00 2.001E+00 2.002E+00
%SOLUBILITY 8.457E-01 8.400E-01 8.346E-01 8.240E-01 8.212E-01 8.202E-01 8.241E-01 8.269E-01 8.295E-01 8.330E-01 8.339E-01 8.341E-01
ADSORBED 6.871E-01 6.825E-01 6.780E-01 6.695E-01 6.672E-01 6.664E-01 6.695E-01 6.718E-01 6.740E-01 6.768E-01 6.775E-01 6.777E-01
SOIL AIR 1.472E+00 1.481E+00 1.485E+00 1.485E+00 1.477E+00 1.473E+00 1.452E+00 1.445E+00 1.438E+00 1.422E+00 1.423E+00 1.428E+00

SUBLAYER 3

MOISTURE 2.283E+00 2.271E+00 2.261E+00 2.239E+00 2.237E+00 2.239E+00 2.252E+00 2.261E+00 2.268E+00 2.278E+00 2.280E+00 2.281E+00
%SOLUBILITY 9.512E-01 9.464E-01 9.419E-01 9.331E-01 9.322E-01 9.331E-01 9.385E-01 9.420E-01 9.450E-01 9.490E-01 9.501E-01 9.505E-01
ADSORBED 7.728E-01 7.689E-01 7.653E-01 7.581E-01 7.574E-01 7.581E-01 7.625E-01 7.653E-01 7.678E-01 7.711E-01 7.719E-01 7.723E-01
SOIL AIR 1.656E+00 1.668E+00 1.676E+00 1.682E+00 1.677E+00 1.676E+00 1.653E+00 1.647E+00 1.638E+00 1.620E+00 1.621E+00 1.627E+00

SUBLAYER 4

MOISTURE 2.247E+00 2.242E+00 2.237E+00 2.228E+00 2.236E+00 2.246E+00 2.263E+00 2.272E+00 2.280E+00 2.290E+00 2.293E+00 2.294E+00
%SOLUBILITY 9.364E-01 9.340E-01 9.322E-01 9.285E-01 9.315E-01 9.356E-01 9.429E-01 9.468E-01 9.500E-01 9.541E-01 9.552E-01 9.560E-01
ADSORBED 7.608E-01 7.588E-01 7.573E-01 7.543E-01 7.568E-01 7.601E-01 7.661E-01 7.693E-01 7.718E-01 7.751E-01 7.761E-01 7.767E-01
SOIL AIR 1.630E+00 1.646E+00 1.659E+00 1.673E+00 1.676E+00 1.680E+00 1.661E+00 1.655E+00 1.647E+00 1.629E+00 1.630E+00 1.636E+00

SUBLAYER 5

MOISTURE 1.845E+00 1.845E+00 1.848E+00 1.854E+00 1.870E+00 1.887E+00 1.907E+00 1.916E+00 1.923E+00 1.931E+00 1.934E+00 1.936E+00
%SOLUBILITY 7.686E-01 7.689E-01 7.701E-01 7.724E-01 7.793E-01 7.864E-01 7.946E-01 7.984E-01 8.012E-01 8.047E-01 8.057E-01 8.067E-01
ADSORBED 6.244E-01 6.247E-01 6.257E-01 6.276E-01 6.331E-01 6.389E-01 6.456E-01 6.487E-01 6.509E-01 6.537E-01 6.546E-01 6.554E-01
SOIL AIR 1.338E+00 1.355E+00 1.371E+00 1.392E+00 1.402E+00 1.412E+00 1.400E+00 1.396E+00 1.389E+00 1.374E+00 1.375E+00 1.381E+00

SUBLAYER 6

MOISTURE 1.227E+00 1.232E+00 1.238E+00 1.252E+00 1.271E+00 1.289E+00 1.307E+00 1.314E+00 1.319E+00 1.325E+00 1.327E+00 1.329E+00
%SOLUBILITY 5.114E-01 5.132E-01 5.158E-01 5.215E-01 5.295E-01 5.373E-01 5.445E-01 5.475E-01 5.495E-01 5.519E-01 5.527E-01 5.536E-01
ADSORBED 4.155E-01 4.170E-01 4.191E-01 4.237E-01 4.302E-01 4.365E-01 4.424E-01 4.448E-01 4.464E-01 4.484E-01 4.491E-01 4.498E-01
SOIL AIR 8.901E-01 9.047E-01 9.181E-01 9.400E-01 9.527E-01 9.649E-01 9.592E-01 9.570E-01 9.525E-01 9.421E-01 9.430E-01 9.477E-01

SUBLAYER 7

MOISTURE 6.592E-01 6.631E-01 6.684E-01 6.809E-01 6.959E-01 7.099E-01 7.215E-01 7.261E-01 7.290E-01 7.322E-01 7.334E-01 7.348E-01
%SOLUBILITY 2.747E-01 2.763E-01 2.785E-01 2.837E-01 2.899E-01 2.958E-01 3.006E-01 3.025E-01 3.037E-01 3.051E-01 3.056E-01 3.062E-01
ADSORBED 2.232E-01 2.245E-01 2.263E-01 2.305E-01 2.356E-01 2.403E-01 2.442E-01 2.458E-01 2.468E-01 2.479E-01 2.483E-01 2.488E-01
SOIL AIR 4.780E-01 4.870E-01 4.957E-01 5.113E-01 5.216E-01 5.312E-01 5.296E-01 5.288E-01 5.265E-01 5.208E-01 5.213E-01 5.241E-01

SUBLAYER 8

MOISTURE 2.995E-01 3.014E-01 3.041E-01 3.110E-01 3.193E-01 3.268E-01 3.328E-01 3.352E-01 3.365E-01 3.380E-01 3.386E-01 3.393E-01

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%SOLUBILITY 1.248E-01 1.256E-01 1.267E-01 1.296E-01 1.330E-01 1.362E-01 1.387E-01 1.396E-01 1.402E-01 1.409E-01 1.411E-01 1.414E-01
 ?SORBED    1.014E-01 1.020E-01 1.029E-01 1.053E-01 1.081E-01 1.106E-01 1.127E-01 1.135E-01 1.139E-01 1.144E-01 1.146E-01 1.149E-01
   L AIR    2.172E-01 2.214E-01 2.255E-01 2.336E-01 2.393E-01 2.446E-01 2.443E-01 2.441E-01 2.431E-01 2.404E-01 2.407E-01 2.420E-01

      SUBLAYER 9

MOISTURE    1.390E-01 1.395E-01 1.402E-01 1.426E-01 1.458E-01 1.489E-01 1.513E-01 1.524E-01 1.530E-01 1.537E-01 1.539E-01 1.542E-01
%SOLUBILITY 5.793E-02 5.810E-02 5.841E-02 5.942E-02 6.077E-02 6.202E-02 6.305E-02 6.349E-02 6.375E-02 6.403E-02 6.413E-02 6.423E-02
ADSORBED    4.706E-02 4.721E-02 4.745E-02 4.827E-02 4.937E-02 5.039E-02 5.123E-02 5.158E-02 5.179E-02 5.202E-02 5.210E-02 5.219E-02
SOIL AIR    1.008E-01 1.024E-01 1.040E-01 1.071E-01 1.093E-01 1.114E-01 1.111E-01 1.110E-01 1.105E-01 1.093E-01 1.094E-01 1.100E-01

      SUBLAYER 10

MOISTURE    9.295E-02 9.280E-02 9.277E-02 9.305E-02 9.401E-02 9.500E-02 9.606E-02 9.657E-02 9.693E-02 9.735E-02 9.747E-02 9.757E-02
%SOLUBILITY 3.873E-02 3.867E-02 3.865E-02 3.877E-02 3.917E-02 3.958E-02 4.002E-02 4.024E-02 4.039E-02 4.056E-02 4.061E-02 4.066E-02
ADSORBED    3.146E-02 3.142E-02 3.140E-02 3.150E-02 3.183E-02 3.216E-02 3.252E-02 3.269E-02 3.281E-02 3.295E-02 3.300E-02 3.303E-02
SOIL AIR    6.740E-02 6.816E-02 6.880E-02 6.988E-02 7.048E-02 7.109E-02 7.051E-02 7.033E-02 7.000E-02 6.924E-02 6.929E-02 6.959E-02


POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03


   -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 1.921E-05 2.296E-04 2.475E-04 1.943E-04 1.029E-04 4.323E-05 1.592E-05 0.000E+00 0.000E+00 0.000E+00
1                    YEAR -  30 ANNUAL SUMMARY REPORT
                     ================================


    -- TOTAL INPUTS (UG) --


UPPER SOIL ZONE          0.000E+00
SOIL ZONE 2              0.000E+00
?OIL ZONE 3              0.000E+00
   VER SOIL ZONE          0.000E+00


      -- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)       8.992
TOTAL PRECIPITATION (CM)                 32.338
TOTAL INFILTRATION (CM)                 25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                   1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                     7.763
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


   SOIL ZONE 2:

      SUBLAYER  1


   SOIL ZONE 3:

      SUBLAYER  1
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LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 2.181E+06

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.068E+00
ADSORBED SOIL (UG/G) 7.000E-01
SOIL AIR (UG/ML) 1.511E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.646E+00
ADSORBED SOIL (UG/G) 5.572E-01
SOIL AIR (UG/ML) 1.203E+00

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.993E+00
ADSORBED SOIL (UG/G) 6.748E-01
SOIL AIR (UG/ML) 1.457E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.263E+00
ADSORBED SOIL (UG/G) 7.659E-01
SOIL AIR (UG/ML) 1.653E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.261E+00
ADSORBED SOIL (UG/G) 7.653E-01
SOIL AIR (UG/ML) 1.652E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.891E+00
ADSORBED SOIL (UG/G) 6.403E-01
SOIL AIR (UG/ML) 1.382E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.286E+00
ADSORBED SOIL (UG/G) 4.352E-01
SOIL AIR (UG/ML) 9.393E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 7.045E-01
ADSORBED SOIL (UG/G) 2.385E-01
SOIL AIR (UG/ML) 5.147E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.236E-01
ADSORBED SOIL (UG/G) 1.095E-01
SOIL AIR (UG/ML) 2.363E-01

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.479E-01
ADSORBED SOIL (UG/G) 5.006E-02
SOIL AIR (UG/ML) 1.080E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 9.521E-02
ADSORBED SOIL (UG/G) 3.223E-02
SOIL AIR (UG/ML) 6.956E-02

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 7.105E-05

1

EAR - 40 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN.(CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	6.908E+08	7.552E+08	8.264E+08	9.820E+08	9.829E+08	9.432E+08	8.739E+08	8.160E+08	7.778E+08	7.504E+08	7.282E+08	7.026E+08
ADS ON SOIL	4.705E+09	4.667E+09	4.631E+09	4.565E+09	4.546E+09	4.537E+09	4.557E+09	4.573E+09	4.587E+09	4.606E+09	4.611E+09	4.611E+09
IN SOIL AIR	1.393E+09	1.348E+09	1.294E+09	1.166E+09	1.155E+09	1.179E+09	1.215E+09	1.254E+09	1.277E+09	1.285E+09	1.302E+09	1.325E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	8.924E+07	9.760E+07	1.068E+08	1.270E+08	1.271E+08	1.219E+08	1.129E+08	1.054E+08	1.005E+08	9.697E+07	9.408E+07	9.078E+07
ADS ON SOIL	6.078E+08	6.032E+08	5.987E+08	5.903E+08	5.877E+08	5.864E+08	5.889E+08	5.909E+08	5.927E+08	5.952E+08	5.958E+08	5.958E+08
IN SOIL AIR	1.800E+08	1.743E+08	1.672E+08	1.507E+08	1.493E+08	1.524E+08	1.571E+08	1.621E+08	1.650E+08	1.660E+08	1.682E+08	1.712E+08

SUBLAYER 2

IN SOIL MOI	1.112E+08	1.217E+08	1.332E+08	1.583E+08	1.585E+08	1.521E+08	1.409E+08	1.315E+08	1.254E+08	1.210E+08	1.174E+08	1.133E+08
ADS ON SOIL	7.574E+08	7.519E+08	7.465E+08	7.361E+08	7.330E+08	7.315E+08	7.346E+08	7.371E+08	7.394E+08	7.426E+08	7.433E+08	7.434E+08
IN SOIL AIR	2.243E+08	2.172E+08	2.085E+08	1.880E+08	1.862E+08	1.901E+08	1.959E+08	2.022E+08	2.059E+08	2.071E+08	2.099E+08	2.136E+08

SUBLAYER 3

OIL MOI 1.369E+08 1.499E+08 1.643E+08 1.955E+08 1.958E+08 1.881E+08 1.743E+08 1.628E+08 1.552E+08 1.497E+08 1.453E+08 1.402E+08
ADS ON SOIL 9.327E+08 9.265E+08 9.206E+08 9.089E+08 9.058E+08 9.047E+08 9.090E+08 9.121E+08 9.150E+08 9.188E+08 9.198E+08 9.200E+08
IN SOIL AIR 2.762E+08 2.676E+08 2.571E+08 2.321E+08 2.301E+08 2.351E+08 2.424E+08 2.502E+08 2.548E+08 2.563E+08 2.597E+08 2.643E+08

SUBLAYER 4

IN SOIL MOI 1.590E+08 1.743E+08 1.913E+08 2.282E+08 2.291E+08 2.204E+08 2.045E+08 1.910E+08 1.820E+08 1.756E+08 1.704E+08 1.645E+08
ADS ON SOIL 1.083E+09 1.077E+09 1.072E+09 1.061E+09 1.060E+09 1.060E+09 1.066E+09 1.070E+09 1.073E+09 1.078E+09 1.079E+09 1.080E+09
IN SOIL AIR 3.206E+08 3.111E+08 2.994E+08 2.710E+08 2.692E+08 2.755E+08 2.844E+08 2.936E+08 2.989E+08 3.007E+08 3.047E+08 3.101E+08

SUBLAYER 5

IN SOIL MOI 1.643E+08 1.804E+08 1.985E+08 2.379E+08 2.396E+08 2.311E+08 2.148E+08 2.006E+08 1.913E+08 1.845E+08 1.791E+08 1.729E+08
ADS ON SOIL 1.119E+09 1.115E+09 1.112E+09 1.106E+09 1.108E+09 1.112E+09 1.120E+09 1.124E+09 1.128E+09 1.133E+09 1.134E+09 1.135E+09
IN SOIL AIR 3.313E+08 3.222E+08 3.107E+08 2.824E+08 2.815E+08 2.889E+08 2.987E+08 3.084E+08 3.141E+08 3.160E+08 3.202E+08 3.260E+08

SUBLAYER 6

IN SOIL MOI 1.436E+08 1.580E+08 1.743E+08 2.101E+08 2.125E+08 2.058E+08 1.916E+08 1.791E+08 1.708E+08 1.648E+08 1.599E+08 1.545E+08
ADS ON SOIL 9.778E+08 9.768E+08 9.767E+08 9.766E+08 9.829E+08 9.900E+08 9.992E+08 1.004E+09 1.007E+09 1.012E+09 1.013E+09 1.014E+09
IN SOIL AIR 2.895E+08 2.822E+08 2.728E+08 2.494E+08 2.497E+08 2.572E+08 2.665E+08 2.754E+08 2.805E+08 2.822E+08 2.860E+08 2.912E+08

SUBLAYER 7

N SOIL MOI 1.021E+08 1.127E+08 1.246E+08 1.511E+08 1.537E+08 1.495E+08 1.396E+08 1.305E+08 1.245E+08 1.201E+08 1.166E+08 1.127E+08
ADS ON SOIL 6.956E+08 6.964E+08 6.982E+08 7.027E+08 7.110E+08 7.193E+08 7.278E+08 7.315E+08 7.342E+08 7.374E+08 7.384E+08 7.394E+08
IN SOIL AIR 2.060E+08 2.012E+08 1.950E+08 1.794E+08 1.806E+08 1.869E+08 1.941E+08 2.007E+08 2.044E+08 2.057E+08 2.085E+08 2.124E+08

SUBLAYER 8

IN SOIL MOI 5.794E+07 6.404E+07 7.096E+07 8.663E+07 8.861E+07 8.659E+07 8.103E+07 7.585E+07 7.235E+07 6.981E+07 6.777E+07 6.550E+07
ADS ON SOIL 3.946E+08 3.958E+08 3.977E+08 4.027E+08 4.098E+08 4.165E+08 4.225E+08 4.250E+08 4.267E+08 4.285E+08 4.292E+08 4.299E+08
SOIL AIR 1.168E+08 1.143E+08 1.111E+08 1.028E+08 1.041E+08 1.082E+08 1.127E+08 1.166E+08 1.188E+08 1.195E+08 1.212E+08 1.235E+08

SUBLAYER 9

N SOIL MOI 2.676E+07 2.958E+07 3.279E+07 4.020E+07 4.130E+07 4.050E+07 3.797E+07 3.557E+07 3.394E+07 3.275E+07 3.179E+07 3.072E+07
ADS ON SOIL 1.822E+08 1.828E+08 1.838E+08 1.869E+08 1.910E+08 1.948E+08 1.980E+08 1.993E+08 2.001E+08 2.010E+08 2.013E+08 2.016E+08
IN SOIL AIR 5.396E+07 5.281E+07 5.133E+07 4.772E+07 4.853E+07 5.062E+07 5.281E+07 5.468E+07 5.573E+07 5.608E+07 5.684E+07 5.792E+07

SUBLAYER 10

N SOIL MOI 1.199E+07 1.322E+07 1.461E+07 1.784E+07 1.829E+07 1.790E+07 1.677E+07 1.571E+07 1.499E+07 1.446E+07 1.404E+07 1.356E+07
ADS ON SOIL 8.166E+07 8.169E+07 8.187E+07 8.295E+07 8.461E+07 8.613E+07 8.744E+07 8.802E+07 8.839E+07 8.877E+07 8.890E+07 8.901E+07
IN SOIL AIR 2.418E+07 2.360E+07 2.287E+07 2.118E+07 2.150E+07 2.238E+07 2.332E+07 2.415E+07 2.461E+07 2.477E+07 2.510E+07 2.557E+07
GWR. RUNOFF 0.000E+00 0.000E+00 9.585E+04 1.152E+06 1.255E+06 9.935E+05 5.297E+05 2.233E+05 8.236E+04 0.000E+00 0.000E+00 0.000E+00

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

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

ISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09

%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.683E+00 1.669E+00 1.656E+00 1.633E+00 1.626E+00 1.623E+00 1.630E+00 1.635E+00 1.640E+00 1.647E+00 1.649E+00 1.649E+00
%SOLUBILITY 7.011E-01 6.954E-01 6.900E-01 6.802E-01 6.774E-01 6.761E-01 6.790E-01 6.813E-01 6.835E-01 6.864E-01 6.871E-01 6.871E-01
ADSORBED 5.696E-01 5.650E-01 5.606E-01 5.527E-01 5.504E-01 5.493E-01 5.516E-01 5.535E-01 5.553E-01 5.576E-01 5.582E-01 5.582E-01
SOIL AIR 1.220E+00 1.226E+00 1.228E+00 1.226E+00 1.219E+00 1.214E+00 1.196E+00 1.191E+00 1.185E+00 1.172E+00 1.172E+00 1.176E+00

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.345E+00 1.335E+00 1.325E+00 1.306E+00 1.300E+00 1.298E+00 1.303E+00 1.307E+00 1.311E+00 1.317E+00 1.318E+00 1.318E+00
%SOLUBILITY 5.604E-01 5.561E-01 5.520E-01 5.442E-01 5.418E-01 5.406E-01 5.429E-01 5.447E-01 5.464E-01 5.488E-01 5.493E-01 5.493E-01
ADSORBED 4.553E-01 4.518E-01 4.485E-01 4.421E-01 4.402E-01 4.392E-01 4.411E-01 4.426E-01 4.440E-01 4.458E-01 4.463E-01 4.463E-01
SOIL AIR 9.753E-01 9.803E-01 9.825E-01 9.809E-01 9.748E-01 9.709E-01 9.565E-01 9.522E-01 9.472E-01 9.367E-01 9.371E-01 9.403E-01

SUBLAYER 2

MOISTURE 1.676E+00 1.664E+00 1.652E+00 1.629E+00 1.622E+00 1.619E+00 1.626E+00 1.631E+00 1.636E+00 1.643E+00 1.645E+00 1.645E+00
%SOLUBILITY 6.983E-01 6.932E-01 6.882E-01 6.787E-01 6.758E-01 6.744E-01 6.773E-01 6.796E-01 6.817E-01 6.846E-01 6.853E-01 6.854E-01
ADSORBED 5.673E-01 5.632E-01 5.591E-01 5.514E-01 5.490E-01 5.479E-01 5.503E-01 5.521E-01 5.539E-01 5.562E-01 5.568E-01 5.569E-01
SOIL AIR 1.215E+00 1.222E+00 1.225E+00 1.223E+00 1.216E+00 1.211E+00 1.193E+00 1.188E+00 1.182E+00 1.169E+00 1.169E+00 1.173E+00

SUBLAYER 3

MOISTURE 2.064E+00 2.050E+00 2.037E+00 2.011E+00 2.004E+00 2.002E+00 2.011E+00 2.018E+00 2.025E+00 2.033E+00 2.035E+00 2.036E+00
%SOLUBILITY 8.599E-01 8.542E-01 8.487E-01 8.380E-01 8.351E-01 8.341E-01 8.380E-01 8.409E-01 8.436E-01 8.471E-01 8.480E-01 8.482E-01
ADSORBED 6.986E-01 6.940E-01 6.895E-01 6.808E-01 6.785E-01 6.777E-01 6.808E-01 6.832E-01 6.853E-01 6.882E-01 6.890E-01 6.891E-01
SOIL AIR 1.497E+00 1.506E+00 1.511E+00 1.510E+00 1.503E+00 1.498E+00 1.476E+00 1.470E+00 1.462E+00 1.446E+00 1.447E+00 1.452E+00

SUBLAYER 4

MOISTURE 2.396E+00 2.383E+00 2.371E+00 2.348E+00 2.345E+00 2.346E+00 2.359E+00 2.368E+00 2.375E+00 2.385E+00 2.388E+00 2.389E+00
%SOLUBILITY 9.983E-01 9.930E-01 9.881E-01 9.783E-01 9.769E-01 9.774E-01 9.830E-01 9.865E-01 9.897E-01 9.939E-01 9.950E-01 9.954E-01
ADSORBED 8.111E-01 8.068E-01 8.028E-01 7.948E-01 7.937E-01 7.941E-01 7.986E-01 8.015E-01 8.041E-01 8.075E-01 8.084E-01 8.087E-01
SOIL AIR 1.737E+00 1.750E+00 1.759E+00 1.763E+00 1.758E+00 1.755E+00 1.732E+00 1.724E+00 1.715E+00 1.697E+00 1.697E+00 1.704E+00

SUBLAYER 5

MOISTURE 2.476E+00 2.468E+00 2.461E+00 2.447E+00 2.452E+00 2.460E+00 2.478E+00 2.488E+00 2.496E+00 2.507E+00 2.510E+00 2.511E+00
%SOLUBILITY 1.032E+00 1.028E+00 1.025E+00 1.020E+00 1.022E+00 1.025E+00 1.032E+00 1.037E+00 1.040E+00 1.044E+00 1.046E+00 1.046E+00
ADSORBED 8.381E-01 8.353E-01 8.330E-01 8.283E-01 8.300E-01 8.328E-01 8.388E-01 8.421E-01 8.449E-01 8.485E-01 8.495E-01 8.501E-01
SOIL AIR 1.795E+00 1.812E+00 1.825E+00 1.838E+00 1.838E+00 1.841E+00 1.819E+00 1.812E+00 1.803E+00 1.783E+00 1.784E+00 1.791E+00

SUBLAYER 6

MOISTURE 2.164E+00 2.161E+00 2.161E+00 2.161E+00 2.175E+00 2.191E+00 2.211E+00 2.221E+00 2.229E+00 2.238E+00 2.241E+00 2.243E+00
%SOLUBILITY 9.015E-01 9.005E-01 9.004E-01 9.004E-01 9.062E-01 9.127E-01 9.212E-01 9.254E-01 9.286E-01 9.326E-01 9.338E-01 9.347E-01
ADSORBED 7.324E-01 7.316E-01 7.316E-01 7.315E-01 7.363E-01 7.415E-01 7.485E-01 7.518E-01 7.544E-01 7.577E-01 7.587E-01 7.594E-01
SOIL AIR 1.569E+00 1.587E+00 1.603E+00 1.623E+00 1.630E+00 1.639E+00 1.623E+00 1.618E+00 1.610E+00 1.592E+00 1.593E+00 1.600E+00

SUBLAYER 7

MOISTURE 1.539E+00 1.541E+00 1.545E+00 1.555E+00 1.573E+00 1.592E+00 1.610E+00 1.619E+00 1.624E+00 1.632E+00 1.634E+00 1.636E+00
%SOLUBILITY 6.413E-01 6.421E-01 6.437E-01 6.478E-01 6.555E-01 6.632E-01 6.710E-01 6.744E-01 6.769E-01 6.798E-01 6.808E-01 6.817E-01
ADSORBED 5.210E-01 5.217E-01 5.230E-01 5.263E-01 5.326E-01 5.388E-01 5.451E-01 5.480E-01 5.499E-01 5.523E-01 5.531E-01 5.538E-01
SOIL AIR 1.116E+00 1.132E+00 1.146E+00 1.168E+00 1.179E+00 1.191E+00 1.182E+00 1.179E+00 1.173E+00 1.160E+00 1.161E+00 1.167E+00

SUBLAYER 8

MOISTURE 8.732E-01 8.758E-01 8.799E-01 8.911E-01 9.068E-01 9.217E-01 9.349E-01 9.405E-01 9.441E-01 9.482E-01 9.496E-01 9.512E-01
%SOLUBILITY 3.638E-01 3.649E-01 3.666E-01 3.713E-01 3.779E-01 3.840E-01 3.895E-01 3.919E-01 3.934E-01 3.951E-01 3.957E-01 3.963E-01
ADSORBED 2.956E-01 2.965E-01 2.979E-01 3.017E-01 3.070E-01 3.120E-01 3.165E-01 3.184E-01 3.196E-01 3.210E-01 3.215E-01 3.220E-01
SOIL AIR 6.332E-01 6.432E-01 6.525E-01 6.692E-01 6.798E-01 6.897E-01 6.863E-01 6.849E-01 6.818E-01 6.744E-01 6.750E-01 6.784E-01

SUBLAYER 9

...ISTURE 4.032E-01 4.045E-01 4.066E-01 4.135E-01 4.227E-01 4.311E-01 4.381E-01 4.410E-01 4.428E-01 4.448E-01 4.454E-01 4.462E-01
%SOLUBILITY 1.680E-01 1.685E-01 1.694E-01 1.723E-01 1.761E-01 1.796E-01 1.825E-01 1.838E-01 1.845E-01 1.853E-01 1.856E-01 1.859E-01
ADSORBED 1.365E-01 1.369E-01 1.376E-01 1.400E-01 1.431E-01 1.459E-01 1.483E-01 1.493E-01 1.499E-01 1.506E-01 1.508E-01 1.510E-01
SOIL AIR 2.924E-01 2.971E-01 3.015E-01 3.105E-01 3.169E-01 3.226E-01 3.216E-01 3.212E-01 3.198E-01 3.164E-01 3.166E-01 3.182E-01

SUBLAYER 10

MOISTURE 1.807E-01 1.807E-01 1.812E-01 1.835E-01 1.872E-01 1.906E-01 1.935E-01 1.948E-01 1.956E-01 1.964E-01 1.967E-01 1.970E-01
%SOLUBILITY 7.529E-02 7.531E-02 7.548E-02 7.647E-02 7.800E-02 7.941E-02 8.061E-02 8.115E-02 8.149E-02 8.185E-02 8.196E-02 8.206E-02
ADSORBED 6.117E-02 6.119E-02 6.132E-02 6.213E-02 6.337E-02 6.452E-02 6.549E-02 6.593E-02 6.621E-02 6.650E-02 6.659E-02 6.667E-02
SOIL AIR 1.310E-01 1.328E-01 1.343E-01 1.378E-01 1.403E-01 1.426E-01 1.420E-01 1.419E-01 1.413E-01 1.397E-01 1.398E-01 1.405E-01

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 3.751E-05 4.529E-04 4.929E-04 3.897E-04 2.072E-04 8.719E-05 3.213E-05 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 40 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 4.332E+06

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.645E+00
ADSORBED SOIL (UG/G) 5.568E-01
SOIL AIR (UG/ML) 1.202E+00

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.315E+00
ADSORBED SOIL (UG/G) 4.453E-01
SOIL AIR (UG/ML) 9.612E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.641E+00
ADSORBED SOIL (UG/G) 5.553E-01

SOIL AIR (UG/ML) 1.199E+00

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.027E+00
ADSORBED SOIL (UG/G) 6.862E-01
SOIL AIR (UG/ML) 1.481E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.371E+00
ADSORBED SOIL (UG/G) 8.027E-01
SOIL AIR (UG/ML) 1.733E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.479E+00
ADSORBED SOIL (UG/G) 8.393E-01
SOIL AIR (UG/ML) 1.812E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.200E+00
ADSORBED SOIL (UG/G) 7.446E-01
SOIL AIR (UG/ML) 1.607E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.592E+00
ADSORBED SOIL (UG/G) 5.388E-01
SOIL AIR (UG/ML) 1.163E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 9.181E-01
ADSORBED SOIL (UG/G) 3.108E-01
SOIL AIR (UG/ML) 6.707E-01

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.283E-01
ADSORBED SOIL (UG/G) 1.450E-01
SOIL AIR (UG/ML) 3.129E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 1.898E-01
ADSORBED SOIL (UG/G) 6.426E-02
SOIL AIR (UG/ML) 1.387E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.416E-04

YEAR - 50 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
IS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
.S. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685

PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	5.493E+08	6.005E+08	6.572E+08	7.809E+08	7.817E+08	7.501E+08	6.949E+08	6.489E+08	6.186E+08	5.968E+08	5.790E+08	5.587E+08
ADS ON SOIL	3.742E+09	3.712E+09	3.683E+09	3.630E+09	3.615E+09	3.608E+09	3.624E+09	3.636E+09	3.648E+09	3.663E+09	3.667E+09	3.667E+09
IN SOIL AIR	1.108E+09	1.072E+09	1.029E+09	9.271E+08	9.186E+08	9.376E+08	9.665E+08	9.975E+08	1.016E+09	1.022E+09	1.035E+09	1.053E+09

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	7.103E+07	7.768E+07	8.504E+07	1.010E+08	1.011E+08	9.701E+07	8.987E+07	8.391E+07	7.998E+07	7.717E+07	7.487E+07	7.224E+07
ADS ON SOIL	4.838E+08	4.801E+08	4.765E+08	4.698E+08	4.677E+08	4.667E+08	4.686E+08	4.702E+08	4.717E+08	4.737E+08	4.741E+08	4.742E+08
IN SOIL AIR	1.432E+08	1.387E+08	1.331E+08	1.200E+08	1.188E+08	1.213E+08	1.250E+08	1.290E+08	1.313E+08	1.321E+08	1.339E+08	1.362E+08

SUBLAYER 2

IN SOIL MOI	8.924E+07	9.761E+07	1.069E+08	1.270E+08	1.271E+08	1.219E+08	1.129E+08	1.054E+08	1.005E+08	9.697E+07	9.409E+07	9.079E+07
ADS ON SOIL	6.078E+08	6.033E+08	5.989E+08	5.904E+08	5.877E+08	5.864E+08	5.889E+08	5.909E+08	5.927E+08	5.952E+08	5.958E+08	5.959E+08
IN SOIL AIR	1.800E+08	1.743E+08	1.673E+08	1.508E+08	1.493E+08	1.524E+08	1.571E+08	1.621E+08	1.650E+08	1.660E+08	1.682E+08	1.712E+08

SUBLAYER 3

IN SOIL MOI	1.136E+08	1.243E+08	1.361E+08	1.618E+08	1.620E+08	1.554E+08	1.440E+08	1.344E+08	1.282E+08	1.236E+08	1.200E+08	1.158E+08
ADS ON SOIL	7.738E+08	7.682E+08	7.628E+08	7.523E+08	7.491E+08	7.477E+08	7.509E+08	7.534E+08	7.558E+08	7.590E+08	7.597E+08	7.599E+08

IN SOIL AIR 2.291E+08 2.219E+08 2.131E+08 1.921E+08 1.903E+08 1.943E+08 2.003E+08 2.067E+08 2.104E+08 2.117E+08 2.145E+08 2.183E+08

SUBLAYER 4

IN SOIL MOI 1.430E+08 1.566E+08 1.716E+08 2.042E+08 2.046E+08 1.965E+08 1.821E+08 1.701E+08 1.621E+08 1.564E+08 1.518E+08 1.465E+08
ADS ON SOIL 9.740E+08 9.677E+08 9.616E+08 9.496E+08 9.463E+08 9.452E+08 9.497E+08 9.530E+08 9.559E+08 9.600E+08 9.610E+08 9.613E+08
IN SOIL AIR 2.884E+08 2.795E+08 2.686E+08 2.425E+08 2.404E+08 2.456E+08 2.533E+08 2.614E+08 2.662E+08 2.678E+08 2.713E+08 2.761E+08

SUBLAYER 5

IN SOIL MOI 1.699E+08 1.863E+08 2.044E+08 2.439E+08 2.448E+08 2.355E+08 2.185E+08 2.041E+08 1.945E+08 1.877E+08 1.821E+08 1.758E+08
ADS ON SOIL 1.157E+09 1.151E+09 1.146E+09 1.134E+09 1.132E+09 1.133E+09 1.139E+09 1.143E+09 1.147E+09 1.152E+09 1.153E+09 1.154E+09
IN SOIL AIR 3.427E+08 3.326E+08 3.200E+08 2.896E+08 2.877E+08 2.944E+08 3.039E+08 3.137E+08 3.194E+08 3.214E+08 3.256E+08 3.314E+08

SUBLAYER 6

IN SOIL MOI 1.799E+08 1.976E+08 2.173E+08 2.602E+08 2.620E+08 2.527E+08 2.347E+08 2.193E+08 2.091E+08 2.017E+08 1.958E+08 1.890E+08
ADS ON SOIL 1.225E+09 1.221E+09 1.217E+09 1.210E+09 1.212E+09 1.215E+09 1.224E+09 1.229E+09 1.233E+09 1.238E+09 1.240E+09 1.240E+09
IN SOIL AIR 3.628E+08 3.527E+08 3.401E+08 3.090E+08 3.079E+08 3.158E+08 3.265E+08 3.371E+08 3.433E+08 3.454E+08 3.500E+08 3.563E+08

SUBLAYER 7

IN SOIL MOI 1.606E+08 1.767E+08 1.948E+08 2.345E+08 2.370E+08 2.293E+08 2.135E+08 1.995E+08 1.902E+08 1.835E+08 1.781E+08 1.720E+08
ADS ON SOIL 1.094E+09 1.092E+09 1.091E+09 1.090E+09 1.096E+09 1.103E+09 1.113E+09 1.118E+09 1.122E+09 1.127E+09 1.128E+09 1.129E+09
IN SOIL AIR 3.239E+08 3.155E+08 3.049E+08 2.784E+08 2.785E+08 2.867E+08 2.969E+08 3.067E+08 3.124E+08 3.143E+08 3.185E+08 3.243E+08

SUBLAYER 8

IN SOIL MOI 1.154E+08 1.272E+08 1.405E+08 1.701E+08 1.728E+08 1.679E+08 1.566E+08 1.464E+08 1.396E+08 1.347E+08 1.308E+08 1.263E+08
ADS ON SOIL 7.863E+08 7.864E+08 7.874E+08 7.909E+08 7.992E+08 8.075E+08 8.165E+08 8.206E+08 8.235E+08 8.271E+08 8.282E+08 8.292E+08
IN SOIL AIR 2.328E+08 2.272E+08 2.200E+08 2.020E+08 2.030E+08 2.098E+08 2.178E+08 2.251E+08 2.293E+08 2.307E+08 2.338E+08 2.382E+08

SUBLAYER 9

IN SOIL MOI 6.467E+07 7.135E+07 7.891E+07 9.605E+07 9.807E+07 9.568E+07 8.945E+07 8.372E+07 7.986E+07 7.706E+07 7.480E+07 7.227E+07
ADS ON SOIL 4.405E+08 4.410E+08 4.422E+08 4.466E+08 4.536E+08 4.603E+08 4.664E+08 4.692E+08 4.710E+08 4.730E+08 4.737E+08 4.743E+08
IN SOIL AIR 1.304E+08 1.274E+08 1.235E+08 1.140E+08 1.152E+08 1.196E+08 1.244E+08 1.287E+08 1.311E+08 1.320E+08 1.337E+08 1.362E+08

SUBLAYER 10

IN SOIL MOI 2.871E+07 3.166E+07 3.499E+07 4.274E+07 4.381E+07 4.287E+07 4.014E+07 3.760E+07 3.588E+07 3.462E+07 3.360E+07 3.246E+07
ADS ON SOIL 1.956E+08 1.956E+08 1.961E+08 1.987E+08 2.026E+08 2.062E+08 2.093E+08 2.107E+08 2.116E+08 2.125E+08 2.128E+08 2.131E+08
IN SOIL AIR 5.791E+07 5.652E+07 5.478E+07 5.074E+07 5.148E+07 5.359E+07 5.583E+07 5.780E+07 5.891E+07 5.928E+07 6.008E+07 6.120E+07
GWR. RUNOFF 0.000E+00 0.000E+00 2.296E+05 2.759E+06 3.006E+06 2.379E+06 1.268E+06 5.346E+05 1.971E+05 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.338E+00 1.327E+00 1.317E+00 1.298E+00 1.293E+00 1.290E+00 1.296E+00 1.300E+00 1.304E+00 1.310E+00 1.311E+00 1.311E+00
%SOLUBILITY 5.575E-01 5.530E-01 5.487E-01 5.409E-01 5.387E-01 5.376E-01 5.399E-01 5.418E-01 5.435E-01 5.458E-01 5.464E-01 5.464E-01
ADSORBED 4.529E-01 4.493E-01 4.458E-01 4.395E-01 4.377E-01 4.368E-01 4.387E-01 4.402E-01 4.416E-01 4.434E-01 4.439E-01 4.439E-01
SOIL AIR 9.703E-01 9.748E-01 9.766E-01 9.750E-01 9.692E-01 9.655E-01 9.512E-01 9.471E-01 9.421E-01 9.317E-01 9.321E-01 9.353E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.070E+00 1.062E+00 1.054E+00 1.039E+00 1.035E+00 1.033E+00 1.037E+00 1.040E+00 1.044E+00 1.048E+00 1.049E+00 1.049E+00
%SOLUBILITY 4.460E-01 4.426E-01 4.393E-01 4.331E-01 4.312E-01 4.303E-01 4.321E-01 4.335E-01 4.349E-01 4.367E-01 4.371E-01 4.371E-01
ADSORBED 3.624E-01 3.596E-01 3.569E-01 3.519E-01 3.503E-01 3.496E-01 3.510E-01 3.522E-01 3.533E-01 3.548E-01 3.551E-01 3.552E-01
SOIL AIR 7.763E-01 7.802E-01 7.820E-01 7.806E-01 7.758E-01 7.727E-01 7.612E-01 7.578E-01 7.538E-01 7.455E-01 7.457E-01 7.483E-01

SUBLAYER 2

MOISTURE 1.345E+00 1.335E+00 1.325E+00 1.306E+00 1.300E+00 1.298E+00 1.303E+00 1.307E+00 1.311E+00 1.317E+00 1.318E+00 1.319E+00
%SOLUBILITY 5.604E-01 5.562E-01 5.521E-01 5.443E-01 5.419E-01 5.407E-01 5.429E-01 5.447E-01 5.464E-01 5.488E-01 5.493E-01 5.494E-01
ADSORBED 4.553E-01 4.519E-01 4.486E-01 4.422E-01 4.402E-01 4.393E-01 4.411E-01 4.426E-01 4.440E-01 4.458E-01 4.463E-01 4.463E-01
SOIL AIR 9.753E-01 9.804E-01 9.827E-01 9.811E-01 9.749E-01 9.710E-01 9.565E-01 9.522E-01 9.472E-01 9.367E-01 9.371E-01 9.404E-01

SUBLAYER 3

MOISTURE 1.712E+00 1.700E+00 1.688E+00 1.665E+00 1.658E+00 1.654E+00 1.661E+00 1.667E+00 1.672E+00 1.679E+00 1.681E+00 1.681E+00
%SOLUBILITY 7.134E-01 7.083E-01 7.033E-01 6.936E-01 6.907E-01 6.893E-01 6.923E-01 6.946E-01 6.968E-01 6.997E-01 7.004E-01 7.006E-01
ADSORBED 5.796E-01 5.754E-01 5.714E-01 5.635E-01 5.611E-01 5.600E-01 5.624E-01 5.643E-01 5.661E-01 5.685E-01 5.691E-01 5.692E-01
SOIL AIR 1.242E+00 1.248E+00 1.252E+00 1.250E+00 1.243E+00 1.238E+00 1.220E+00 1.214E+00 1.208E+00 1.194E+00 1.195E+00 1.199E+00

SUBLAYER 4

MOISTURE 2.155E+00 2.141E+00 2.128E+00 2.101E+00 2.094E+00 2.091E+00 2.101E+00 2.109E+00 2.115E+00 2.124E+00 2.126E+00 2.127E+00
%SOLUBILITY 8.979E-01 8.921E-01 8.865E-01 8.754E-01 8.725E-01 8.715E-01 8.756E-01 8.786E-01 8.813E-01 8.851E-01 8.860E-01 8.863E-01
ADSORBED 7.295E-01 7.248E-01 7.203E-01 7.113E-01 7.088E-01 7.080E-01 7.114E-01 7.138E-01 7.160E-01 7.191E-01 7.198E-01 7.200E-01
SOIL AIR 1.563E+00 1.573E+00 1.578E+00 1.578E+00 1.570E+00 1.565E+00 1.543E+00 1.536E+00 1.528E+00 1.511E+00 1.512E+00 1.517E+00

SUBLAYER 5

MOISTURE 2.561E+00 2.547E+00 2.535E+00 2.509E+00 2.506E+00 2.507E+00 2.521E+00 2.530E+00 2.538E+00 2.549E+00 2.552E+00 2.553E+00
%SOLUBILITY 1.067E+00 1.061E+00 1.056E+00 1.046E+00 1.044E+00 1.045E+00 1.050E+00 1.054E+00 1.058E+00 1.062E+00 1.063E+00 1.064E+00
ADSORBED 8.669E-01 8.623E-01 8.581E-01 8.495E-01 8.482E-01 8.486E-01 8.534E-01 8.565E-01 8.592E-01 8.629E-01 8.638E-01 8.642E-01
SOIL AIR 1.857E+00 1.871E+00 1.880E+00 1.885E+00 1.878E+00 1.876E+00 1.851E+00 1.843E+00 1.833E+00 1.813E+00 1.814E+00 1.821E+00

SUBLAYER 6

MOISTURE 2.711E+00 2.702E+00 2.694E+00 2.677E+00 2.681E+00 2.689E+00 2.708E+00 2.719E+00 2.728E+00 2.740E+00 2.743E+00 2.745E+00
%SOLUBILITY 1.130E+00 1.126E+00 1.122E+00 1.115E+00 1.117E+00 1.121E+00 1.128E+00 1.133E+00 1.137E+00 1.141E+00 1.143E+00 1.144E+00
ADSORBED 9.179E-01 9.146E-01 9.119E-01 9.063E-01 9.076E-01 9.104E-01 9.168E-01 9.204E-01 9.234E-01 9.274E-01 9.285E-01 9.291E-01
SOIL AIR 1.966E+00 1.984E+00 1.998E+00 2.011E+00 2.010E+00 2.012E+00 1.988E+00 1.980E+00 1.970E+00 1.949E+00 1.950E+00 1.958E+00

SUBLAYER 7

MOISTURE 2.421E+00 2.417E+00 2.415E+00 2.412E+00 2.425E+00 2.441E+00 2.463E+00 2.474E+00 2.482E+00 2.493E+00 2.496E+00 2.498E+00
%SOLUBILITY 1.009E+00 1.007E+00 1.006E+00 1.005E+00 1.011E+00 1.017E+00 1.026E+00 1.031E+00 1.034E+00 1.039E+00 1.040E+00 1.041E+00
ADSORBED 8.195E-01 8.182E-01 8.175E-01 8.165E-01 8.211E-01 8.263E-01 8.337E-01 8.374E-01 8.402E-01 8.439E-01 8.450E-01 8.458E-01
SOIL AIR 1.756E+00 1.775E+00 1.791E+00 1.811E+00 1.818E+00 1.827E+00 1.808E+00 1.802E+00 1.793E+00 1.773E+00 1.774E+00 1.782E+00

SUBLAYER 8

MOISTURE 1.740E+00 1.740E+00 1.742E+00 1.750E+00 1.768E+00 1.787E+00 1.807E+00 1.816E+00 1.822E+00 1.830E+00 1.833E+00 1.835E+00
%SOLUBILITY 7.249E-01 7.250E-01 7.260E-01 7.292E-01 7.368E-01 7.445E-01 7.527E-01 7.566E-01 7.593E-01 7.626E-01 7.636E-01 7.645E-01
ADSORBED 5.890E-01 5.890E-01 5.898E-01 5.924E-01 5.986E-01 6.049E-01 6.116E-01 6.147E-01 6.169E-01 6.195E-01 6.204E-01 6.211E-01
SOIL AIR 1.262E+00 1.278E+00 1.292E+00 1.314E+00 1.326E+00 1.337E+00 1.326E+00 1.322E+00 1.316E+00 1.302E+00 1.303E+00 1.309E+00

SUBLAYER 9

MOISTURE 9.746E-01 9.757E-01 9.784E-01 9.881E-01 1.004E+00 1.018E+00 1.032E+00 1.038E+00 1.042E+00 1.047E+00 1.048E+00 1.050E+00

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%SOLUBILITY 4.061E-01 4.065E-01 4.077E-01 4.117E-01 4.182E-01 4.244E-01 4.300E-01 4.325E-01 4.342E-01 4.361E-01 4.367E-01 4.373E-01
ADSORBED    3.299E-01 3.303E-01 3.312E-01 3.345E-01 3.398E-01 3.448E-01 3.494E-01 3.514E-01 3.528E-01 3.543E-01 3.548E-01 3.553E-01
SOIL AIR    7.068E-01 7.166E-01 7.256E-01 7.421E-01 7.524E-01 7.621E-01 7.576E-01 7.561E-01 7.526E-01 7.444E-01 7.450E-01 7.485E-01

      SUBLAYER 10

MOISTURE    4.328E-01 4.329E-01 4.339E-01 4.396E-01 4.483E-01 4.563E-01 4.631E-01 4.662E-01 4.681E-01 4.702E-01 4.708E-01 4.714E-01
%SOLUBILITY 1.803E-01 1.804E-01 1.808E-01 1.832E-01 1.868E-01 1.901E-01 1.930E-01 1.943E-01 1.951E-01 1.959E-01 1.962E-01 1.964E-01
ADSORBED    1.465E-01 1.465E-01 1.469E-01 1.488E-01 1.518E-01 1.545E-01 1.568E-01 1.578E-01 1.585E-01 1.592E-01 1.594E-01 1.596E-01
SOIL AIR    3.138E-01 3.180E-01 3.218E-01 3.302E-01 3.361E-01 3.415E-01 3.400E-01 3.396E-01 3.381E-01 3.344E-01 3.347E-01 3.362E-01

POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

   -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 8.983E-05 1.085E-03 1.180E-03 9.331E-04 4.961E-04 2.087E-04 7.691E-05 0.000E+00 0.000E+00 0.000E+00
1                    YEAR -  50 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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)    8.992
TOTAL PRECIPITATION (CM)                  32.338
TOTAL INFILTRATION (CM)                   25.841
TOTAL EVAPOTRANSPIRATION (CM)             24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                     1.265
TOTAL MOISTURE RETENTION (CM)             0.001
TOTAL YIELD (CM)                          7.763
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

   SOIL ZONE 2:

      SUBLAYER  1

   SOIL ZONE 3:

      SUBLAYER  1

   LOWER SOIL ZONE:

      SUBLAYER  1

      SUBLAYER  2
```

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.037E+07

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.308E+00
ADSORBED SOIL (UG/G) 4.428E-01
SOIL AIR (UG/ML) 9.559E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.047E+00
ADSORBED SOIL (UG/G) 3.544E-01
SOIL AIR (UG/ML) 7.650E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.315E+00
ADSORBED SOIL (UG/G) 4.453E-01
SOIL AIR (UG/ML) 9.613E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.677E+00
ADSORBED SOIL (UG/G) 5.676E-01
SOIL AIR (UG/ML) 1.225E+00

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.118E+00
ADSORBED SOIL (UG/G) 7.169E-01
SOIL AIR (UG/ML) 1.548E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.534E+00
ADSORBED SOIL (UG/G) 8.578E-01
SOIL AIR (UG/ML) 1.852E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.711E+00
ADSORBED SOIL (UG/G) 9.179E-01
SOIL AIR (UG/ML) 1.981E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.453E+00
ADSORBED SOIL (UG/G) 8.304E-01
SOIL AIR (UG/ML) 1.792E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 1.789E+00
ADSORBED SOIL (UG/G) 6.057E-01
SOIL AIR (UG/ML) 1.307E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.016E+00
ADSORBED SOIL (UG/G) 3.440E-01
SOIL AIR (UG/ML) 7.425E-01

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.545E-01
ADSORBED SOIL (UG/G) 1.539E-01
SOIL AIR (UG/ML) 3.320E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.392E-04

YEAR - 60 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPITATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685

NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	4.367E+08	4.774E+08	5.225E+08	6.208E+08	6.214E+08	5.963E+08	5.525E+08	5.159E+08	4.918E+08	4.744E+08	4.603E+08	4.442E+08
ADS ON SOIL	2.975E+09	2.951E+09	2.928E+09	2.886E+09	2.874E+09	2.869E+09	2.881E+09	2.891E+09	2.900E+09	2.912E+09	2.915E+09	2.915E+09
IN SOIL AIR	8.808E+08	8.524E+08	8.178E+08	7.370E+08	7.303E+08	7.454E+08	7.684E+08	7.931E+08	8.075E+08	8.124E+08	8.231E+08	8.374E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	5.651E+07	6.181E+07	6.766E+07	8.039E+07	8.045E+07	7.718E+07	7.150E+07	6.676E+07	6.364E+07	6.140E+07	5.957E+07	5.748E+07
ADS ON SOIL	3.849E+08	3.820E+08	3.792E+08	3.738E+08	3.721E+08	3.713E+08	3.728E+08	3.741E+08	3.753E+08	3.769E+08	3.772E+08	3.773E+08
IN SOIL AIR	1.140E+08	1.103E+08	1.059E+08	9.545E+07	9.454E+07	9.648E+07	9.945E+07	1.026E+08	1.045E+08	1.051E+08	1.065E+08	1.084E+08

SUBLAYER 2

IN SOIL MOI	7.111E+07	7.778E+07	8.516E+07	1.012E+08	1.012E+08	9.713E+07	8.997E+07	8.401E+07	8.007E+07	7.725E+07	7.496E+07	7.233E+07
ADS ON SOIL	4.844E+08	4.807E+08	4.772E+08	4.704E+08	4.683E+08	4.672E+08	4.692E+08	4.707E+08	4.722E+08	4.742E+08	4.747E+08	4.747E+08
IN SOIL AIR	1.434E+08	1.389E+08	1.333E+08	1.201E+08	1.190E+08	1.214E+08	1.251E+08	1.291E+08	1.315E+08	1.323E+08	1.340E+08	1.364E+08

SUBLAYER 3

IN SOIL MOI	9.153E+07	1.001E+08	1.096E+08	1.303E+08	1.304E+08	1.251E+08	1.159E+08	1.082E+08	1.031E+08	9.948E+07	9.653E+07	9.315E+07
ADS ON SOIL	6.234E+08	6.189E+08	6.144E+08	6.057E+08	6.030E+08	6.017E+08	6.042E+08	6.062E+08	6.081E+08	6.106E+08	6.112E+08	6.113E+08
IN SOIL AIR	1.846E+08	1.788E+08	1.716E+08	1.547E+08	1.532E+08	1.563E+08	1.611E+08	1.663E+08	1.693E+08	1.703E+08	1.726E+08	1.756E+08

SUBLAYER 4

IN SOIL MOI 1.195E+08 1.308E+08 1.433E+08 1.703E+08 1.705E+08 1.636E+08 1.516E+08 1.415E+08 1.349E+08 1.301E+08 1.263E+08 1.219E+08
ADS ON SOIL 8.139E+08 8.083E+08 8.027E+08 7.918E+08 7.885E+08 7.870E+08 7.904E+08 7.930E+08 7.955E+08 7.988E+08 7.997E+08 7.998E+08
IN SOIL AIR 2.410E+08 2.335E+08 2.242E+08 2.022E+08 2.003E+08 2.045E+08 2.108E+08 2.175E+08 2.215E+08 2.228E+08 2.258E+08 2.298E+08

SUBLAYER 5

IN SOIL MOI 1.538E+08 1.685E+08 1.847E+08 2.199E+08 2.203E+08 2.116E+08 1.962E+08 1.832E+08 1.746E+08 1.685E+08 1.635E+08 1.578E+08
ADS ON SOIL 1.048E+09 1.041E+09 1.035E+09 1.022E+09 1.019E+09 1.018E+09 1.023E+09 1.026E+09 1.030E+09 1.034E+09 1.035E+09 1.035E+09
IN SOIL AIR 3.103E+08 3.008E+08 2.891E+08 2.611E+08 2.589E+08 2.645E+08 2.728E+08 2.816E+08 2.867E+08 2.885E+08 2.923E+08 2.974E+08

SUBLAYER 6

IN SOIL MOI 1.857E+08 2.036E+08 2.235E+08 2.668E+08 2.678E+08 2.577E+08 2.391E+08 2.233E+08 2.129E+08 2.054E+08 1.993E+08 1.924E+08
ADS ON SOIL 1.265E+09 1.259E+09 1.253E+09 1.241E+09 1.239E+09 1.240E+09 1.247E+09 1.251E+09 1.255E+09 1.261E+09 1.262E+09 1.263E+09
IN SOIL AIR 3.745E+08 3.636E+08 3.499E+08 3.168E+08 3.148E+08 3.221E+08 3.325E+08 3.433E+08 3.495E+08 3.517E+08 3.563E+08 3.627E+08

SUBLAYER 7

IN SOIL MOI 1.975E+08 2.169E+08 2.386E+08 2.858E+08 2.878E+08 2.775E+08 2.579E+08 2.409E+08 2.297E+08 2.216E+08 2.151E+08 2.076E+08
ADS ON SOIL 1.345E+09 1.341E+09 1.337E+09 1.329E+09 1.331E+09 1.335E+09 1.345E+09 1.350E+09 1.354E+09 1.360E+09 1.362E+09 1.363E+09
IN SOIL AIR 3.983E+08 3.873E+08 3.734E+08 3.393E+08 3.382E+08 3.469E+08 3.587E+08 3.704E+08 3.771E+08 3.795E+08 3.845E+08 3.915E+08

SUBLAYER 8

IN SOIL MOI 1.740E+08 1.914E+08 2.109E+08 2.539E+08 2.566E+08 2.483E+08 2.311E+08 2.160E+08 2.060E+08 1.987E+08 1.929E+08 1.863E+08
ADS ON SOIL 1.185E+09 1.183E+09 1.182E+09 1.180E+09 1.187E+09 1.194E+09 1.205E+09 1.210E+09 1.215E+09 1.220E+09 1.221E+09 1.223E+09
IN SOIL AIR 3.509E+08 3.418E+08 3.302E+08 3.014E+08 3.015E+08 3.104E+08 3.214E+08 3.321E+08 3.382E+08 3.403E+08 3.448E+08 3.512E+08

SUBLAYER 9

IN SOIL MOI 1.200E+08 1.321E+08 1.458E+08 1.764E+08 1.792E+08 1.740E+08 1.623E+08 1.518E+08 1.448E+08 1.397E+08 1.356E+08 1.310E+08
ADS ON SOIL 8.171E+08 8.166E+08 8.172E+08 8.203E+08 8.287E+08 8.372E+08 8.464E+08 8.507E+08 8.538E+08 8.575E+08 8.586E+08 8.596E+08
IN SOIL AIR 2.419E+08 2.359E+08 2.283E+08 2.095E+08 2.106E+08 2.175E+08 2.258E+08 2.334E+08 2.377E+08 2.392E+08 2.424E+08 2.469E+08

SUBLAYER 10

IN SOIL MOI 6.199E+07 6.829E+07 7.540E+07 9.167E+07 9.357E+07 9.125E+07 8.529E+07 7.984E+07 7.616E+07 7.349E+07 7.133E+07 6.890E+07
ADS ON SOIL 4.222E+08 4.221E+08 4.225E+08 4.262E+08 4.328E+08 4.390E+08 4.447E+08 4.474E+08 4.491E+08 4.511E+08 4.517E+08 4.522E+08
IN SOIL AIR 1.250E+08 1.219E+08 1.180E+08 1.088E+08 1.100E+08 1.141E+08 1.186E+08 1.227E+08 1.251E+08 1.258E+08 1.275E+08 1.299E+08
GWR. RUNOFF 0.000E+00 0.000E+00 4.949E+05 5.932E+06 6.434E+06 5.072E+06 2.697E+06 1.136E+06 4.185E+05 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

OIL ZONE 3:

SUBLAYER 1

MOISTURE 1.064E+00 1.055E+00 1.047E+00 1.032E+00 1.028E+00 1.026E+00 1.030E+00 1.034E+00 1.037E+00 1.041E+00 1.042E+00 1.043E+00
%SOLUBILITY 4.432E-01 4.397E-01 4.362E-01 4.301E-01 4.283E-01 4.274E-01 4.292E-01 4.307E-01 4.321E-01 4.339E-01 4.344E-01 4.344E-01
ADSORBED 3.601E-01 3.572E-01 3.544E-01 3.494E-01 3.480E-01 3.473E-01 3.487E-01 3.500E-01 3.511E-01 3.525E-01 3.529E-01 3.529E-01
SOIL AIR 7.714E-01 7.750E-01 7.764E-01 7.751E-01 7.705E-01 7.676E-01 7.562E-01 7.529E-01 7.490E-01 7.407E-01 7.410E-01 7.435E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 8.517E-01 8.452E-01 8.389E-01 8.270E-01 8.233E-01 8.216E-01 8.250E-01 8.278E-01 8.304E-01 8.339E-01 8.347E-01 8.348E-01
%SOLUBILITY 3.549E-01 3.522E-01 3.496E-01 3.446E-01 3.431E-01 3.423E-01 3.437E-01 3.449E-01 3.460E-01 3.475E-01 3.478E-01 3.478E-01
ADSORBED 2.883E-01 2.861E-01 2.840E-01 2.800E-01 2.787E-01 2.781E-01 2.793E-01 2.802E-01 2.811E-01 2.823E-01 2.826E-01 2.826E-01
SOIL AIR 6.176E-01 6.208E-01 6.222E-01 6.211E-01 6.172E-01 6.148E-01 6.056E-01 6.029E-01 5.997E-01 5.931E-01 5.933E-01 5.954E-01

SUBLAYER 2

MOISTURE 1.072E+00 1.064E+00 1.056E+00 1.041E+00 1.036E+00 1.034E+00 1.038E+00 1.042E+00 1.045E+00 1.049E+00 1.050E+00 1.050E+00
%SOLUBILITY 4.466E-01 4.432E-01 4.400E-01 4.337E-01 4.317E-01 4.308E-01 4.325E-01 4.340E-01 4.353E-01 4.372E-01 4.376E-01 4.377E-01
ADSORBED 3.628E-01 3.601E-01 3.574E-01 3.524E-01 3.508E-01 3.500E-01 3.514E-01 3.526E-01 3.537E-01 3.552E-01 3.555E-01 3.556E-01
SOIL AIR 7.772E-01 7.813E-01 7.830E-01 7.817E-01 7.767E-01 7.736E-01 7.621E-01 7.586E-01 7.546E-01 7.463E-01 7.466E-01 7.492E-01

SUBLAYER 3

MOISTURE 1.379E+00 1.369E+00 1.359E+00 1.340E+00 1.334E+00 1.331E+00 1.337E+00 1.341E+00 1.345E+00 1.351E+00 1.353E+00 1.353E+00
%SOLUBILITY 5.748E-01 5.706E-01 5.665E-01 5.585E-01 5.559E-01 5.547E-01 5.570E-01 5.589E-01 5.606E-01 5.630E-01 5.635E-01 5.636E-01
ADSORBED 4.670E-01 4.636E-01 4.602E-01 4.537E-01 4.517E-01 4.507E-01 4.525E-01 4.540E-01 4.555E-01 4.574E-01 4.578E-01 4.579E-01
SOIL AIR 1.000E+00 1.006E+00 1.008E+00 1.007E+00 1.000E+00 9.962E-01 9.813E-01 9.769E-01 9.717E-01 9.610E-01 9.614E-01 9.648E-01

SUBLAYER 4

MOISTURE 1.801E+00 1.788E+00 1.776E+00 1.752E+00 1.745E+00 1.741E+00 1.749E+00 1.755E+00 1.760E+00 1.768E+00 1.769E+00 1.770E+00
%SOLUBILITY 7.504E-01 7.452E-01 7.401E-01 7.300E-01 7.269E-01 7.255E-01 7.287E-01 7.311E-01 7.334E-01 7.365E-01 7.373E-01 7.374E-01
ADSORBED 6.097E-01 6.054E-01 6.013E-01 5.931E-01 5.906E-01 5.895E-01 5.920E-01 5.940E-01 5.958E-01 5.984E-01 5.990E-01 5.991E-01
SOIL AIR 1.306E+00 1.314E+00 1.317E+00 1.316E+00 1.308E+00 1.303E+00 1.284E+00 1.278E+00 1.271E+00 1.257E+00 1.258E+00 1.262E+00

SUBLAYER 5

MOISTURE 2.319E+00 2.304E+00 2.290E+00 2.262E+00 2.255E+00 2.253E+00 2.263E+00 2.271E+00 2.278E+00 2.288E+00 2.290E+00 2.291E+00
%SOLUBILITY 9.661E-01 9.601E-01 9.543E-01 9.426E-01 9.396E-01 9.386E-01 9.431E-01 9.463E-01 9.493E-01 9.533E-01 9.543E-01 9.546E-01
ADSORBED 7.849E-01 7.800E-01 7.753E-01 7.658E-01 7.633E-01 7.625E-01 7.662E-01 7.688E-01 7.712E-01 7.745E-01 7.754E-01 7.756E-01
SOIL AIR 1.681E+00 1.692E+00 1.699E+00 1.699E+00 1.690E+00 1.686E+00 1.662E+00 1.654E+00 1.645E+00 1.627E+00 1.628E+00 1.634E+00

SUBLAYER 6

MOISTURE 2.799E+00 2.785E+00 2.772E+00 2.745E+00 2.741E+00 2.743E+00 2.759E+00 2.769E+00 2.777E+00 2.789E+00 2.792E+00 2.794E+00
%SOLUBILITY 1.166E+00 1.160E+00 1.155E+00 1.144E+00 1.142E+00 1.143E+00 1.149E+00 1.154E+00 1.157E+00 1.162E+00 1.164E+00 1.164E+00
ADSORBED 9.474E-01 9.427E-01 9.383E-01 9.292E-01 9.280E-01 9.285E-01 9.339E-01 9.372E-01 9.402E-01 9.442E-01 9.453E-01 9.457E-01
SOIL AIR 2.030E+00 2.045E+00 2.056E+00 2.061E+00 2.055E+00 2.053E+00 2.025E+00 2.016E+00 2.006E+00 1.984E+00 1.985E+00 1.993E+00

SUBLAYER 7

MOISTURE 2.977E+00 2.967E+00 2.958E+00 2.940E+00 2.945E+00 2.954E+00 2.975E+00 2.987E+00 2.997E+00 3.010E+00 3.013E+00 3.015E+00
%SOLUBILITY 1.240E+00 1.236E+00 1.233E+00 1.225E+00 1.227E+00 1.231E+00 1.240E+00 1.245E+00 1.249E+00 1.254E+00 1.256E+00 1.256E+00
ADSORBED 1.008E+00 1.004E+00 1.001E+00 9.953E-01 9.970E-01 1.000E+00 1.007E+00 1.011E+00 1.014E+00 1.019E+00 1.020E+00 1.021E+00
SOIL AIR 2.159E+00 2.179E+00 2.194E+00 2.208E+00 2.208E+00 2.211E+00 2.184E+00 2.176E+00 2.164E+00 2.141E+00 2.142E+00 2.151E+00

SUBLAYER 8

MOISTURE 2.623E+00 2.618E+00 2.615E+00 2.612E+00 2.626E+00 2.643E+00 2.667E+00 2.678E+00 2.687E+00 2.699E+00 2.703E+00 2.705E+00
%SOLUBILITY 1.093E+00 1.091E+00 1.090E+00 1.088E+00 1.094E+00 1.101E+00 1.111E+00 1.116E+00 1.120E+00 1.125E+00 1.126E+00 1.127E+00
ADSORBED 8.878E-01 8.862E-01 8.853E-01 8.841E-01 8.890E-01 8.947E-01 9.027E-01 9.067E-01 9.098E-01 9.137E-01 9.149E-01 9.157E-01
SOIL AIR 1.902E+00 1.923E+00 1.939E+00 1.961E+00 1.969E+00 1.978E+00 1.957E+00 1.951E+00 1.941E+00 1.920E+00 1.921E+00 1.929E+00

SUBLAYER 9

MOISTURE 1.808E+00 1.807E+00 1.808E+00 1.815E+00 1.834E+00 1.853E+00 1.873E+00 1.882E+00 1.889E+00 1.897E+00 1.900E+00 1.902E+00
%SOLUBILITY 7.533E-01 7.529E-01 7.534E-01 7.562E-01 7.640E-01 7.719E-01 7.803E-01 7.843E-01 7.872E-01 7.906E-01 7.916E-01 7.925E-01

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ADSORBED   6.120E-01 6.117E-01 6.121E-01 6.144E-01 6.207E-01 6.271E-01 6.340E-01 6.372E-01 6.395E-01 6.423E-01 6.432E-01 6.439E-01
 OIL AIR   1.311E+00 1.327E+00 1.341E+00 1.363E+00 1.375E+00 1.386E+00 1.375E+00 1.371E+00 1.364E+00 1.350E+00 1.350E+00 1.357E+00

      SUBLAYER 10

MOISTURE   9.343E-01 9.339E-01 9.350E-01 9.431E-01 9.576E-01 9.713E-01 9.840E-01 9.899E-01 9.938E-01 9.981E-01 9.994E-01 1.001E+00
%SOLUBILITY 3.893E-01 3.891E-01 3.896E-01 3.929E-01 3.990E-01 4.047E-01 4.100E-01 4.125E-01 4.141E-01 4.159E-01 4.164E-01 4.169E-01
ADSORBED   3.163E-01 3.161E-01 3.165E-01 3.192E-01 3.242E-01 3.288E-01 3.331E-01 3.351E-01 3.364E-01 3.379E-01 3.383E-01 3.387E-01
SOIL AIR   6.775E-01 6.859E-01 6.934E-01 7.082E-01 7.179E-01 7.268E-01 7.223E-01 7.210E-01 7.177E-01 7.099E-01 7.104E-01 7.136E-01


POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

   -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 1.936E-04 2.327E-03 2.521E-03 1.986E-03 1.054E-03 4.431E-04 1.633E-04 0.000E+00 0.000E+00 0.000E+00
1                YEAR -  60 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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                 32.338
TAL INFILTRATION (CM)                   25.841
TAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                    1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                       7.763
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


   SOIL ZONE 2:

      SUBLAYER  1


   SOIL ZONE 3:

      SUBLAYER  1


   LOWER SOIL ZONE:

      SUBLAYER  1


      SUBLAYER  2
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SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 2.218E+07

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.040E+00
ADSORBED SOIL (UG/G) 3.520E-01
SOIL AIR (UG/ML) 7.600E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 8.329E-01
ADSORBED SOIL (UG/G) 2.819E-01
SOIL AIR (UG/ML) 6.086E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.048E+00
ADSORBED SOIL (UG/G) 3.548E-01
SOIL AIR (UG/ML) 7.659E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.349E+00

ADSORBED SOIL (UG/G) 4.568E-01
SOIL AIR (UG/ML) 9.862E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.765E+00
ADSORBED SOIL (UG/G) 5.973E-01
SOIL AIR (UG/ML) 1.289E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 2.280E+00
ADSORBED SOIL (UG/G) 7.720E-01
SOIL AIR (UG/ML) 1.666E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.772E+00
ADSORBED SOIL (UG/G) 9.384E-01
SOIL AIR (UG/ML) 2.026E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.978E+00
ADSORBED SOIL (UG/G) 1.008E+00
SOIL AIR (UG/ML) 2.176E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.656E+00
ADSORBED SOIL (UG/G) 8.992E-01
SOIL AIR (UG/ML) 1.941E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 1.856E+00
ADSORBED SOIL (UG/G) 6.282E-01
SOIL AIR (UG/ML) 1.356E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 9.701E-01
ADSORBED SOIL (UG/G) 3.284E-01
SOIL AIR (UG/ML) 7.087E-01

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 7.241E-04

1

YEAR - 70 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685

NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199

PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	3.475E+08	3.799E+08	4.157E+08	4.940E+08	4.945E+08	4.745E+08	4.396E+08	4.105E+08	3.913E+08	3.776E+08	3.663E+08	3.535E+08
ADS ON SOIL	2.367E+09	2.348E+09	2.330E+09	2.297E+09	2.287E+09	2.283E+09	2.292E+09	2.300E+09	2.308E+09	2.318E+09	2.320E+09	2.320E+09
IN SOIL AIR	7.009E+08	6.783E+08	6.508E+08	5.865E+08	5.811E+08	5.932E+08	6.115E+08	6.311E+08	6.426E+08	6.465E+08	6.550E+08	6.664E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	4.495E+07	4.916E+07	5.382E+07	6.395E+07	6.400E+07	6.140E+07	5.688E+07	5.311E+07	5.062E+07	4.884E+07	4.739E+07	4.573E+07
ADS ON SOIL	3.062E+08	3.039E+08	3.016E+08	2.973E+08	2.960E+08	2.954E+08	2.966E+08	2.976E+08	2.985E+08	2.998E+08	3.001E+08	3.001E+08
IN SOIL AIR	9.066E+07	8.778E+07	8.425E+07	7.593E+07	7.520E+07	7.675E+07	7.911E+07	8.164E+07	8.313E+07	8.363E+07	8.473E+07	8.621E+07

SUBLAYER 2

IN SOIL MOI	5.662E+07	6.193E+07	6.780E+07	8.056E+07	8.060E+07	7.733E+07	7.163E+07	6.688E+07	6.375E+07	6.151E+07	5.968E+07	5.759E+07
ADS ON SOIL	3.857E+08	3.828E+08	3.799E+08	3.745E+08	3.728E+08	3.720E+08	3.735E+08	3.748E+08	3.760E+08	3.775E+08	3.779E+08	3.780E+08
IN SOIL AIR	1.142E+08	1.106E+08	1.061E+08	9.564E+07	9.472E+07	9.666E+07	9.963E+07	1.028E+08	1.047E+08	1.053E+08	1.067E+08	1.086E+08

SUBLAYER 3

IN SOIL MOI	7.308E+07	7.994E+07	8.753E+07	1.040E+08	1.041E+08	9.983E+07	9.247E+07	8.634E+07	8.229E+07	7.939E+07	7.704E+07	7.434E+07
ADS ON SOIL	4.978E+08	4.941E+08	4.905E+08	4.835E+08	4.813E+08	4.802E+08	4.822E+08	4.838E+08	4.853E+08	4.873E+08	4.878E+08	4.879E+08
IN SOIL AIR	1.474E+08	1.427E+08	1.370E+08	1.235E+08	1.223E+08	1.248E+08	1.286E+08	1.327E+08	1.351E+08	1.360E+08	1.377E+08	1.402E+08

SUBLAYER 4

IN SOIL MOI 9.684E+07 1.060E+08 1.160E+08 1.379E+08 1.380E+08 1.324E+08 1.226E+08 1.145E+08 1.091E+08 1.053E+08 1.022E+08 9.859E+07
ADS ON SOIL 6.596E+08 6.549E+08 6.503E+08 6.412E+08 6.382E+08 6.368E+08 6.395E+08 6.416E+08 6.436E+08 6.463E+08 6.470E+08 6.471E+08
IN SOIL AIR 1.953E+08 1.892E+08 1.816E+08 1.637E+08 1.622E+08 1.655E+08 1.706E+08 1.760E+08 1.792E+08 1.803E+08 1.827E+08 1.859E+08

SUBLAYER 5

IN SOIL MOI 1.301E+08 1.425E+08 1.561E+08 1.856E+08 1.858E+08 1.783E+08 1.652E+08 1.543E+08 1.471E+08 1.419E+08 1.377E+08 1.329E+08
ADS ON SOIL 8.864E+08 8.805E+08 8.747E+08 8.630E+08 8.594E+08 8.579E+08 8.617E+08 8.645E+08 8.672E+08 8.709E+08 8.718E+08 8.720E+08
IN SOIL AIR 2.625E+08 2.543E+08 2.443E+08 2.204E+08 2.184E+08 2.229E+08 2.298E+08 2.372E+08 2.415E+08 2.429E+08 2.461E+08 2.505E+08

SUBLAYER 6

IN SOIL MOI 1.711E+08 1.875E+08 2.056E+08 2.449E+08 2.455E+08 2.358E+08 2.186E+08 2.041E+08 1.946E+08 1.877E+08 1.822E+08 1.758E+08
ADS ON SOIL 1.166E+09 1.159E+09 1.152E+09 1.139E+09 1.135E+09 1.134E+09 1.140E+09 1.144E+09 1.148E+09 1.152E+09 1.154E+09 1.154E+09
IN SOIL AIR 3.452E+08 3.348E+08 3.219E+08 2.908E+08 2.884E+08 2.948E+08 3.041E+08 3.138E+08 3.195E+08 3.215E+08 3.257E+08 3.315E+08

SUBLAYER 7

IN SOIL MOI 2.076E+08 2.278E+08 2.501E+08 2.988E+08 3.000E+08 2.888E+08 2.680E+08 2.503E+08 2.386E+08 2.302E+08 2.234E+08 2.157E+08
ADS ON SOIL 1.414E+09 1.408E+09 1.402E+09 1.389E+09 1.388E+09 1.389E+09 1.397E+09 1.403E+09 1.407E+09 1.413E+09 1.415E+09 1.415E+09
IN SOIL AIR 4.187E+08 4.066E+08 3.916E+08 3.547E+08 3.526E+08 3.610E+08 3.727E+08 3.848E+08 3.918E+08 3.942E+08 3.994E+08 4.066E+08

SUBLAYER 8

IN SOIL MOI 2.166E+08 2.379E+08 2.617E+08 3.138E+08 3.161E+08 3.051E+08 2.835E+08 2.649E+08 2.525E+08 2.436E+08 2.365E+08 2.283E+08
ADS ON SOIL 1.475E+09 1.470E+09 1.467E+09 1.459E+09 1.462E+09 1.467E+09 1.478E+09 1.484E+09 1.489E+09 1.496E+09 1.497E+09 1.498E+09
IN SOIL AIR 4.368E+08 4.248E+08 4.097E+08 3.726E+08 3.715E+08 3.813E+08 3.943E+08 4.072E+08 4.147E+08 4.172E+08 4.228E+08 4.304E+08

SUBLAYER 9

IN SOIL MOI 1.806E+08 1.987E+08 2.189E+08 2.637E+08 2.667E+08 2.582E+08 2.404E+08 2.247E+08 2.143E+08 2.067E+08 2.006E+08 1.938E+08
ADS ON SOIL 1.230E+09 1.228E+09 1.227E+09 1.226E+09 1.233E+09 1.242E+09 1.253E+09 1.259E+09 1.264E+09 1.269E+09 1.271E+09 1.272E+09
IN SOIL AIR 3.642E+08 3.547E+08 3.427E+08 3.130E+08 3.134E+08 3.227E+08 3.343E+08 3.454E+08 3.518E+08 3.540E+08 3.587E+08 3.653E+08

SUBLAYER 10

IN SOIL MOI 1.120E+08 1.233E+08 1.360E+08 1.646E+08 1.673E+08 1.626E+08 1.516E+08 1.419E+08 1.353E+08 1.306E+08 1.267E+08 1.224E+08
ADS ON SOIL 7.629E+08 7.619E+08 7.619E+08 7.651E+08 7.736E+08 7.820E+08 7.908E+08 7.950E+08 7.979E+08 8.014E+08 8.024E+08 8.032E+08
IN SOIL AIR 2.259E+08 2.201E+08 2.128E+08 1.954E+08 1.965E+08 2.032E+08 2.109E+08 2.181E+08 2.222E+08 2.236E+08 2.266E+08 2.307E+08
GWR. RUNOFF 0.000E+00 0.000E+00 8.930E+05 1.067E+07 1.152E+07 9.050E+06 4.799E+06 2.018E+06 7.437E+05 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 8.465E-01 8.397E-01 8.331E-01 8.213E-01 8.179E-01 8.163E-01 8.198E-01 8.227E-01 8.253E-01 8.288E-01 8.296E-01 8.297E-01
%SOLUBILITY 3.527E-01 3.499E-01 3.471E-01 3.422E-01 3.408E-01 3.401E-01 3.416E-01 3.428E-01 3.439E-01 3.453E-01 3.457E-01 3.457E-01
ADSORBED 2.865E-01 2.843E-01 2.820E-01 2.780E-01 2.769E-01 2.763E-01 2.775E-01 2.785E-01 2.794E-01 2.806E-01 2.808E-01 2.809E-01
SOIL AIR 6.138E-01 6.167E-01 6.178E-01 6.168E-01 6.132E-01 6.109E-01 6.018E-01 5.992E-01 5.961E-01 5.895E-01 5.897E-01 5.917E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 6.775E-01 6.724E-01 6.674E-01 6.579E-01 6.550E-01 6.536E-01 6.563E-01 6.585E-01 6.606E-01 6.634E-01 6.640E-01 6.641E-01
%SOLUBILITY 2.823E-01 2.801E-01 2.781E-01 2.741E-01 2.729E-01 2.723E-01 2.735E-01 2.744E-01 2.752E-01 2.764E-01 2.767E-01 2.767E-01
ADSORBED 2.293E-01 2.276E-01 2.259E-01 2.227E-01 2.217E-01 2.212E-01 2.222E-01 2.229E-01 2.236E-01 2.246E-01 2.248E-01 2.248E-01
SOIL AIR 4.913E-01 4.938E-01 4.949E-01 4.941E-01 4.910E-01 4.890E-01 4.818E-01 4.796E-01 4.771E-01 4.718E-01 4.720E-01 4.736E-01

SUBLAYER 2

MOISTURE 8.533E-01 8.469E-01 8.407E-01 8.287E-01 8.249E-01 8.231E-01 8.265E-01 8.293E-01 8.319E-01 8.354E-01 8.362E-01 8.364E-01
%SOLUBILITY 3.556E-01 3.529E-01 3.503E-01 3.453E-01 3.437E-01 3.430E-01 3.444E-01 3.455E-01 3.466E-01 3.481E-01 3.484E-01 3.485E-01
ADSORBED 2.889E-01 2.867E-01 2.846E-01 2.805E-01 2.793E-01 2.786E-01 2.798E-01 2.807E-01 2.816E-01 2.828E-01 2.831E-01 2.831E-01
SOIL AIR 6.188E-01 6.220E-01 6.235E-01 6.224E-01 6.184E-01 6.159E-01 6.067E-01 6.040E-01 6.008E-01 5.942E-01 5.944E-01 5.965E-01

SUBLAYER 3

MOISTURE 1.101E+00 1.093E+00 1.085E+00 1.070E+00 1.065E+00 1.063E+00 1.067E+00 1.070E+00 1.074E+00 1.078E+00 1.079E+00 1.080E+00
%SOLUBILITY 4.589E-01 4.555E-01 4.522E-01 4.458E-01 4.437E-01 4.427E-01 4.446E-01 4.460E-01 4.474E-01 4.493E-01 4.498E-01 4.498E-01
ADSORBED 3.729E-01 3.701E-01 3.674E-01 3.622E-01 3.605E-01 3.597E-01 3.612E-01 3.624E-01 3.635E-01 3.650E-01 3.654E-01 3.655E-01
SOIL AIR 7.987E-01 8.030E-01 8.049E-01 8.035E-01 7.983E-01 7.951E-01 7.832E-01 7.797E-01 7.756E-01 7.670E-01 7.673E-01 7.700E-01

SUBLAYER 4

MOISTURE 1.460E+00 1.449E+00 1.439E+00 1.419E+00 1.412E+00 1.409E+00 1.415E+00 1.420E+00 1.424E+00 1.430E+00 1.432E+00 1.432E+00
%SOLUBILITY 6.082E-01 6.038E-01 5.995E-01 5.911E-01 5.884E-01 5.871E-01 5.896E-01 5.915E-01 5.934E-01 5.959E-01 5.965E-01 5.966E-01
ADSORBED 4.941E-01 4.906E-01 4.871E-01 4.803E-01 4.781E-01 4.770E-01 4.790E-01 4.806E-01 4.821E-01 4.841E-01 4.846E-01 4.847E-01
SOIL AIR 1.058E+00 1.064E+00 1.067E+00 1.065E+00 1.059E+00 1.054E+00 1.039E+00 1.034E+00 1.029E+00 1.017E+00 1.018E+00 1.021E+00

SUBLAYER 5

MOISTURE 1.961E+00 1.948E+00 1.935E+00 1.910E+00 1.902E+00 1.898E+00 1.907E+00 1.913E+00 1.919E+00 1.927E+00 1.929E+00 1.929E+00
%SOLUBILITY 8.173E-01 8.118E-01 8.064E-01 7.957E-01 7.924E-01 7.909E-01 7.944E-01 7.971E-01 7.995E-01 8.029E-01 8.038E-01 8.040E-01
ADSORBED 6.640E-01 6.595E-01 6.552E-01 6.464E-01 6.438E-01 6.426E-01 6.454E-01 6.476E-01 6.496E-01 6.523E-01 6.530E-01 6.532E-01
SOIL AIR 1.422E+00 1.431E+00 1.435E+00 1.434E+00 1.426E+00 1.420E+00 1.400E+00 1.393E+00 1.386E+00 1.371E+00 1.371E+00 1.376E+00

SUBLAYER 6

MOISTURE 2.579E+00 2.564E+00 2.550E+00 2.520E+00 2.512E+00 2.510E+00 2.523E+00 2.531E+00 2.539E+00 2.550E+00 2.553E+00 2.554E+00
%SOLUBILITY 1.075E+00 1.068E+00 1.062E+00 1.050E+00 1.047E+00 1.046E+00 1.051E+00 1.055E+00 1.058E+00 1.062E+00 1.064E+00 1.064E+00
ADSORBED 8.731E-01 8.680E-01 8.631E-01 8.530E-01 8.504E-01 8.497E-01 8.539E-01 8.569E-01 8.595E-01 8.632E-01 8.641E-01 8.645E-01
SOIL AIR 1.870E+00 1.883E+00 1.891E+00 1.892E+00 1.883E+00 1.878E+00 1.852E+00 1.844E+00 1.834E+00 1.814E+00 1.815E+00 1.821E+00

SUBLAYER 7

MOISTURE 3.129E+00 3.115E+00 3.102E+00 3.073E+00 3.071E+00 3.074E+00 3.092E+00 3.104E+00 3.113E+00 3.127E+00 3.130E+00 3.132E+00
%SOLUBILITY 1.304E+00 1.298E+00 1.292E+00 1.281E+00 1.279E+00 1.281E+00 1.288E+00 1.293E+00 1.297E+00 1.303E+00 1.304E+00 1.305E+00
ADSORBED 1.059E+00 1.054E+00 1.050E+00 1.040E+00 1.040E+00 1.041E+00 1.047E+00 1.051E+00 1.054E+00 1.058E+00 1.060E+00 1.060E+00
SOIL AIR 2.269E+00 2.288E+00 2.300E+00 2.308E+00 2.302E+00 2.300E+00 2.270E+00 2.260E+00 2.249E+00 2.224E+00 2.225E+00 2.234E+00

SUBLAYER 8

MOISTURE 3.264E+00 3.254E+00 3.245E+00 3.228E+00 3.235E+00 3.247E+00 3.271E+00 3.284E+00 3.295E+00 3.309E+00 3.313E+00 3.316E+00
%SOLUBILITY 1.360E+00 1.356E+00 1.352E+00 1.345E+00 1.348E+00 1.353E+00 1.363E+00 1.368E+00 1.373E+00 1.379E+00 1.380E+00 1.382E+00
ADSORBED 1.105E+00 1.101E+00 1.099E+00 1.093E+00 1.095E+00 1.099E+00 1.107E+00 1.112E+00 1.115E+00 1.120E+00 1.122E+00 1.122E+00
SOIL AIR 2.367E+00 2.390E+00 2.407E+00 2.424E+00 2.425E+00 2.430E+00 2.401E+00 2.392E+00 2.380E+00 2.354E+00 2.355E+00 2.365E+00

SUBLAYER 9

MOISTURE 2.722E+00 2.717E+00 2.714E+00 2.712E+00 2.729E+00 2.748E+00 2.773E+00 2.786E+00 2.796E+00 2.808E+00 2.811E+00 2.814E+00
%SOLUBILITY 1.134E+00 1.132E+00 1.131E+00 1.130E+00 1.137E+00 1.145E+00 1.156E+00 1.161E+00 1.165E+00 1.170E+00 1.171E+00 1.173E+0

ADSORBED 9.214E-01 9.198E-01 9.189E-01 9.182E-01 9.239E-01 9.303E-01 9.389E-01 9.432E-01 9.464E-01 9.505E-01 9.517E-01 9.526E-01
SOIL AIR 1.974E+00 1.995E+00 2.013E+00 2.037E+00 2.046E+00 2.056E+00 2.036E+00 2.029E+00 2.019E+00 1.997E+00 1.998E+00 2.007E+00

SUBLAYER 10

MOISTURE 1.688E+00 1.686E+00 1.686E+00 1.693E+00 1.712E+00 1.730E+00 1.750E+00 1.759E+00 1.766E+00 1.773E+00 1.775E+00 1.777E+00
%SOLUBILITY 7.034E-01 7.025E-01 7.025E-01 7.054E-01 7.132E-01 7.209E-01 7.290E-01 7.329E-01 7.356E-01 7.388E-01 7.398E-01 7.405E-01
ADSORBED 5.714E-01 5.707E-01 5.707E-01 5.731E-01 5.795E-01 5.857E-01 5.923E-01 5.955E-01 5.977E-01 6.003E-01 6.010E-01 6.017E-01
SOIL AIR 1.224E+00 1.238E+00 1.250E+00 1.271E+00 1.283E+00 1.295E+00 1.284E+00 1.281E+00 1.275E+00 1.261E+00 1.262E+00 1.268E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 3.490E-04 4.178E-03 4.507E-03 3.538E-03 1.874E-03 7.875E-04 2.901E-04 0.000E+00 0.000E+00 0.000E+00

YEAR - 70 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

-- 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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 3.970E+07

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 8.276E-01
ADSORBED SOIL (UG/G) 2.801E-01
SOIL AIR (UG/ML) 6.048E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.625E-01
ADSORBED SOIL (UG/G) 2.243E-01
SOIL AIR (UG/ML) 4.842E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 8.344E-01
ADSORBED SOIL (UG/G) 2.825E-01
SOIL AIR (UG/ML) 6.098E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.077E+00

ADSORBED SOIL (UG/G) 3.646E-01
SOIL AIR (UG/ML) 7.872E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.428E+00
ADSORBED SOIL (UG/G) 4.835E-01
SOIL AIR (UG/ML) 1.044E+00

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.923E+00
ADSORBED SOIL (UG/G) 6.510E-01
SOIL AIR (UG/ML) 1.405E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.540E+00
ADSORBED SOIL (UG/G) 8.600E-01
SOIL AIR (UG/ML) 1.856E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 3.105E+00
ADSORBED SOIL (UG/G) 1.051E+00
SOIL AIR (UG/ML) 2.269E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.272E+00
ADSORBED SOIL (UG/G) 1.108E+00
SOIL AIR (UG/ML) 2.391E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 2.761E+00
ADSORBED SOIL (UG/G) 9.347E-01
SOIL AIR (UG/ML) 2.017E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 1.733E+00
ADSORBED SOIL (UG/G) 5.866E-01
SOIL AIR (UG/ML) 1.266E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.294E-03

1

YEAR - 80 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 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPITATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392

EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199

PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	2.766E+08	3.024E+08	3.309E+08	3.932E+08	3.936E+08	3.777E+08	3.499E+08	3.268E+08	3.115E+08	3.005E+08	2.916E+08	2.814E+08
ADS ON SOIL	1.884E+09	1.869E+09	1.854E+09	1.828E+09	1.820E+09	1.817E+09	1.825E+09	1.831E+09	1.837E+09	1.845E+09	1.846E+09	1.847E+09
IN SOIL AIR	5.578E+08	5.399E+08	5.180E+08	4.668E+08	4.625E+08	4.721E+08	4.867E+08	5.023E+08	5.115E+08	5.146E+08	5.213E+08	5.304E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	3.577E+07	3.913E+07	4.283E+07	5.090E+07	5.093E+07	4.886E+07	4.527E+07	4.227E+07	4.029E+07	3.887E+07	3.771E+07	3.639E+07
ADS ON SOIL	2.437E+08	2.418E+08	2.400E+08	2.366E+08	2.356E+08	2.351E+08	2.360E+08	2.368E+08	2.376E+08	2.386E+08	2.388E+08	2.388E+08
IN SOIL AIR	7.215E+07	6.986E+07	6.705E+07	6.042E+07	5.985E+07	6.108E+07	6.296E+07	6.497E+07	6.616E+07	6.656E+07	6.743E+07	6.861E+07

SUBLAYER 2

IN SOIL MOI	4.506E+07	4.929E+07	5.396E+07	6.411E+07	6.415E+07	6.154E+07	5.701E+07	5.323E+07	5.074E+07	4.895E+07	4.750E+07	4.583E+07
ADS ON SOIL	3.069E+08	3.046E+08	3.024E+08	2.981E+08	2.967E+08	2.961E+08	2.973E+08	2.983E+08	2.992E+08	3.005E+08	3.008E+08	3.008E+08
IN SOIL AIR	9.088E+07	8.800E+07	8.447E+07	7.612E+07	7.539E+07	7.693E+07	7.929E+07	8.183E+07	8.332E+07	8.382E+07	8.492E+07	8.641E+07

SUBLAYER 3

IN SOIL MOI	5.824E+07	6.372E+07	6.976E+07	8.289E+07	8.293E+07	7.955E+07	7.369E+07	6.880E+07	6.558E+07	6.327E+07	6.140E+07	5.925E+07
ADS ON SOIL	3.967E+08	3.938E+08	3.909E+08	3.854E+08	3.836E+08	3.827E+08	3.843E+08	3.856E+08	3.868E+08	3.884E+08	3.888E+08	3.888E+08
IN SOIL AIR	1.175E+08	1.138E+08	1.092E+08	9.841E+07	9.745E+07	9.944E+07	1.025E+08	1.058E+08	1.077E+08	1.083E+08	1.098E+08	1.117E+08

SUBLAYER 4

SOIL MOI 7.757E+07 8.487E+07 9.294E+07 1.104E+08 1.105E+08 1.060E+08 9.818E+07 9.166E+07 8.737E+07 8.429E+07 8.179E+07 7.893E+07
ADS ON SOIL 5.284E+08 5.245E+08 5.208E+08 5.134E+08 5.110E+08 5.098E+08 5.119E+08 5.136E+08 5.152E+08 5.174E+08 5.179E+08 5.180E+08
IN SOIL AIR 1.564E+08 1.515E+08 1.455E+08 1.311E+08 1.298E+08 1.325E+08 1.365E+08 1.409E+08 1.435E+08 1.443E+08 1.462E+08 1.488E+08

SUBLAYER 5

IN SOIL MOI 1.065E+08 1.165E+08 1.276E+08 1.517E+08 1.518E+08 1.456E+08 1.349E+08 1.259E+08 1.200E+08 1.158E+08 1.124E+08 1.085E+08
ADS ON SOIL 7.251E+08 7.201E+08 7.152E+08 7.052E+08 7.020E+08 7.005E+08 7.034E+08 7.057E+08 7.079E+08 7.109E+08 7.117E+08 7.118E+08
IN SOIL AIR 2.147E+08 2.080E+08 1.998E+08 1.801E+08 1.784E+08 1.820E+08 1.876E+08 1.936E+08 1.971E+08 1.983E+08 2.009E+08 2.045E+08

SUBLAYER 6

IN SOIL MOI 1.476E+08 1.616E+08 1.772E+08 2.108E+08 2.110E+08 2.026E+08 1.877E+08 1.753E+08 1.671E+08 1.612E+08 1.564E+08 1.509E+08
ADS ON SOIL 1.005E+09 9.990E+08 9.928E+08 9.800E+08 9.761E+08 9.745E+08 9.789E+08 9.822E+08 9.852E+08 9.894E+08 9.904E+08 9.907E+08
IN SOIL AIR 2.977E+08 2.886E+08 2.773E+08 2.502E+08 2.480E+08 2.532E+08 2.611E+08 2.694E+08 2.743E+08 2.760E+08 2.796E+08 2.846E+08

SUBLAYER 7

IN SOIL MOI 1.971E+08 2.161E+08 2.371E+08 2.826E+08 2.834E+08 2.724E+08 2.526E+08 2.359E+08 2.248E+08 2.169E+08 2.105E+08 2.032E+08
ADS ON SOIL 1.343E+09 1.336E+09 1.329E+09 1.314E+09 1.311E+09 1.310E+09 1.317E+09 1.322E+09 1.326E+09 1.331E+09 1.333E+09 1.333E+09
IN SOIL AIR 3.976E+08 3.858E+08 3.712E+08 3.356E+08 3.330E+08 3.405E+08 3.513E+08 3.626E+08 3.692E+08 3.714E+08 3.763E+08 3.830E+08

SUBLAYER 8

IN SOIL MOI 2.360E+08 2.590E+08 2.847E+08 3.403E+08 3.420E+08 3.294E+08 3.058E+08 2.857E+08 2.723E+08 2.627E+08 2.550E+08 2.462E+08
ADS ON SOIL 1.608E+09 1.601E+09 1.595E+09 1.582E+09 1.582E+09 1.585E+09 1.595E+09 1.601E+09 1.606E+09 1.613E+09 1.615E+09 1.616E+09
IN SOIL AIR 4.760E+08 4.625E+08 4.456E+08 4.041E+08 4.020E+08 4.118E+08 4.254E+08 4.391E+08 4.472E+08 4.499E+08 4.559E+08 4.641E+08

SUBLAYER 9

IN SOIL MOI 2.329E+08 2.559E+08 2.817E+08 3.381E+08 3.410E+08 3.293E+08 3.062E+08 2.861E+08 2.728E+08 2.632E+08 2.554E+08 2.467E+08
ADS ON SOIL 1.586E+09 1.582E+09 1.579E+09 1.572E+09 1.577E+09 1.584E+09 1.597E+09 1.603E+09 1.609E+09 1.616E+09 1.618E+09 1.619E+09
SOIL AIR 4.697E+08 4.570E+08 4.410E+08 4.014E+08 4.007E+08 4.117E+08 4.259E+08 4.399E+08 4.479E+08 4.507E+08 4.567E+08 4.650E+08

SUBLAYER 10

IN SOIL MOI 1.729E+08 1.902E+08 2.096E+08 2.527E+08 2.560E+08 2.481E+08 2.311E+08 2.161E+08 2.060E+08 1.988E+08 1.929E+08 1.863E+08
ADS ON SOIL 1.178E+09 1.175E+09 1.174E+09 1.175E+09 1.184E+09 1.193E+09 1.205E+09 1.211E+09 1.215E+09 1.220E+09 1.222E+09 1.223E+09
IN SOIL AIR 3.487E+08 3.396E+08 3.280E+08 3.000E+08 3.008E+08 3.101E+08 3.214E+08 3.322E+08 3.383E+08 3.404E+08 3.450E+08 3.513E+08
GWR. RUNOFF 0.000E+00 0.000E+00 1.377E+06 1.642E+07 1.766E+07 1.383E+07 7.318E+06 3.075E+06 1.133E+06 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 6.737E-01 6.683E-01 6.631E-01 6.537E-01 6.510E-01 6.497E-01 6.525E-01 6.548E-01 6.569E-01 6.596E-01 6.603E-01 6.603E-01
%SOLUBILITY 2.807E-01 2.785E-01 2.763E-01 2.724E-01 2.713E-01 2.707E-01 2.719E-01 2.728E-01 2.737E-01 2.749E-01 2.751E-01 2.751E-01
ADSORBED 2.281E-01 2.262E-01 2.245E-01 2.213E-01 2.204E-01 2.200E-01 2.209E-01 2.217E-01 2.224E-01 2.233E-01 2.235E-01 2.235E-01
SOIL AIR 4.886E-01 4.909E-01 4.918E-01 4.910E-01 4.880E-01 4.862E-01 4.790E-01 4.769E-01 4.744E-01 4.692E-01 4.694E-01 4.710E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 5.392E-01 5.351E-01 5.311E-01 5.236E-01 5.212E-01 5.201E-01 5.223E-01 5.241E-01 5.257E-01 5.279E-01 5.284E-01 5.285E-01
%SOLUBILITY 2.247E-01 2.230E-01 2.213E-01 2.182E-01 2.172E-01 2.167E-01 2.176E-01 2.184E-01 2.190E-01 2.200E-01 2.202E-01 2.202E-01
ADSORBED 1.825E-01 1.811E-01 1.798E-01 1.772E-01 1.765E-01 1.761E-01 1.768E-01 1.774E-01 1.780E-01 1.787E-01 1.789E-01 1.789E-01
SOIL AIR 3.910E-01 3.930E-01 3.939E-01 3.932E-01 3.907E-01 3.892E-01 3.834E-01 3.817E-01 3.797E-01 3.755E-01 3.756E-01 3.769E-01

SUBLAYER 2

MOISTURE 6.792E-01 6.741E-01 6.691E-01 6.596E-01 6.565E-01 6.551E-01 6.578E-01 6.600E-01 6.621E-01 6.649E-01 6.655E-01 6.656E-01
%SOLUBILITY 2.830E-01 2.809E-01 2.788E-01 2.748E-01 2.736E-01 2.730E-01 2.741E-01 2.750E-01 2.759E-01 2.770E-01 2.773E-01 2.773E-01
ADSORBED 2.299E-01 2.282E-01 2.265E-01 2.233E-01 2.223E-01 2.218E-01 2.227E-01 2.234E-01 2.241E-01 2.251E-01 2.253E-01 2.253E-01
SOIL AIR 4.925E-01 4.951E-01 4.962E-01 4.953E-01 4.922E-01 4.902E-01 4.829E-01 4.807E-01 4.782E-01 4.729E-01 4.731E-01 4.747E-01

SUBLAYER 3

MOISTURE 8.778E-01 8.713E-01 8.650E-01 8.527E-01 8.487E-01 8.468E-01 8.503E-01 8.531E-01 8.558E-01 8.594E-01 8.603E-01 8.604E-01
%SOLUBILITY 3.658E-01 3.631E-01 3.604E-01 3.553E-01 3.536E-01 3.528E-01 3.543E-01 3.555E-01 3.566E-01 3.581E-01 3.584E-01 3.585E-01
ADSORBED 2.972E-01 2.950E-01 2.928E-01 2.886E-01 2.873E-01 2.867E-01 2.878E-01 2.888E-01 2.897E-01 2.909E-01 2.912E-01 2.913E-01
SOIL AIR 6.366E-01 6.400E-01 6.415E-01 6.404E-01 6.362E-01 6.336E-01 6.242E-01 6.213E-01 6.181E-01 6.113E-01 6.115E-01 6.136E-01

SUBLAYER 4

MOISTURE 1.169E+00 1.161E+00 1.152E+00 1.136E+00 1.131E+00 1.128E+00 1.133E+00 1.137E+00 1.140E+00 1.145E+00 1.146E+00 1.146E+00
%SOLUBILITY 4.871E-01 4.836E-01 4.802E-01 4.733E-01 4.711E-01 4.701E-01 4.720E-01 4.735E-01 4.750E-01 4.770E-01 4.775E-01 4.776E-01
ADSORBED 3.958E-01 3.929E-01 3.901E-01 3.846E-01 3.828E-01 3.819E-01 3.835E-01 3.847E-01 3.859E-01 3.875E-01 3.879E-01 3.880E-01
SOIL AIR 8.478E-01 8.524E-01 8.546E-01 8.532E-01 8.476E-01 8.442E-01 8.315E-01 8.277E-01 8.234E-01 8.143E-01 8.146E-01 8.175E-01

SUBLAYER 5

MOISTURE 1.604E+00 1.593E+00 1.582E+00 1.560E+00 1.553E+00 1.550E+00 1.556E+00 1.562E+00 1.566E+00 1.573E+00 1.575E+00 1.575E+00
%SOLUBILITY 6.685E-01 6.639E-01 6.594E-01 6.502E-01 6.472E-01 6.458E-01 6.485E-01 6.507E-01 6.527E-01 6.554E-01 6.561E-01 6.563E-01
ADSORBED 5.431E-01 5.394E-01 5.357E-01 5.282E-01 5.258E-01 5.247E-01 5.269E-01 5.286E-01 5.303E-01 5.325E-01 5.331E-01 5.332E-01
SOIL AIR 1.164E+00 1.170E+00 1.174E+00 1.172E+00 1.164E+00 1.160E+00 1.143E+00 1.137E+00 1.131E+00 1.119E+00 1.119E+00 1.123E+00

SUBLAYER 6

MOISTURE 2.225E+00 2.211E+00 2.197E+00 2.168E+00 2.160E+00 2.156E+00 2.166E+00 2.173E+00 2.180E+00 2.189E+00 2.192E+00 2.192E+00
%SOLUBILITY 9.270E-01 9.211E-01 9.154E-01 9.035E-01 8.999E-01 8.985E-01 9.025E-01 9.055E-01 9.083E-01 9.122E-01 9.131E-01 9.134E-01
ADSORBED 7.531E-01 7.483E-01 7.437E-01 7.340E-01 7.311E-01 7.300E-01 7.332E-01 7.357E-01 7.379E-01 7.411E-01 7.419E-01 7.421E-01
SOIL AIR 1.613E+00 1.624E+00 1.629E+00 1.628E+00 1.619E+00 1.614E+00 1.590E+00 1.583E+00 1.574E+00 1.557E+00 1.558E+00 1.563E+00

SUBLAYER 7

MOISTURE 2.971E+00 2.955E+00 2.940E+00 2.908E+00 2.900E+00 2.899E+00 2.914E+00 2.924E+00 2.934E+00 2.946E+00 2.949E+00 2.951E+00
%SOLUBILITY 1.238E+00 1.231E+00 1.225E+00 1.212E+00 1.208E+00 1.208E+00 1.214E+00 1.219E+00 1.222E+00 1.228E+00 1.229E+00 1.229E+00
ADSORBED 1.006E+00 1.000E+00 9.953E-01 9.843E-01 9.818E-01 9.815E-01 9.866E-01 9.900E-01 9.931E-01 9.973E-01 9.984E-01 9.988E-01
SOIL AIR 2.155E+00 2.171E+00 2.180E+00 2.184E+00 2.174E+00 2.169E+00 2.139E+00 2.130E+00 2.119E+00 2.095E+00 2.096E+00 2.104E+00

SUBLAYER 8

MOISTURE 3.557E+00 3.542E+00 3.530E+00 3.501E+00 3.501E+00 3.507E+00 3.529E+00 3.542E+00 3.553E+00 3.568E+00 3.573E+00 3.575E+00
%SOLUBILITY 1.482E+00 1.476E+00 1.471E+00 1.459E+00 1.459E+00 1.461E+00 1.470E+00 1.476E+00 1.481E+00 1.487E+00 1.489E+00 1.490E+00
ADSORBED 1.204E+00 1.199E+00 1.195E+00 1.185E+00 1.185E+00 1.187E+00 1.195E+00 1.199E+00 1.203E+00 1.208E+00 1.209E+00 1.210E+00
SOIL AIR 2.579E+00 2.602E+00 2.618E+00 2.629E+00 2.624E+00 2.624E+00 2.590E+00 2.580E+00 2.566E+00 2.538E+00 2.539E+00 2.550E+00

SUBLAYER 9

MOISTURE 3.510E+00 3.500E+00 3.493E+00 3.478E+00 3.490E+00 3.505E+00 3.533E+00 3.548E+00 3.559E+00 3.575E+00 3.579E+00 3.582E+00
%SOLUBILITY 1.462E+00 1.458E+00 1.455E+00 1.449E+00 1.454E+00 1.461E+00 1.472E+00 1.478E+00 1.483E+00 1.490E+00 1.491E+00 1.493E+0
ADSORBED 1.188E+00 1.185E+00 1.182E+00 1.178E+00 1.181E+00 1.187E+00 1.196E+00 1.201E+00 1.205E+00 1.210E+00 1.212E+00 1.213E+0

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SOIL AIR    2.545E+00 2.571E+00 2.590E+00 2.612E+00 2.616E+00 2.623E+00 2.594E+00 2.584E+00 2.571E+00 2.543E+00 2.544E+00 2.555E+00

      SUBLAYER 10

MOISTURE    2.606E+00 2.601E+00 2.599E+00 2.600E+00 2.620E+00 2.641E+00 2.666E+00 2.679E+00 2.689E+00 2.700E+00 2.704E+00 2.706E+00
%SOLUBILITY 1.086E+00 1.084E+00 1.083E+00 1.083E+00 1.091E+00 1.100E+00 1.111E+00 1.116E+00 1.120E+00 1.125E+00 1.126E+00 1.128E+00
ADSORBED    8.822E-01 8.805E-01 8.797E-01 8.800E-01 8.868E-01 8.939E-01 9.026E-01 9.069E-01 9.101E-01 9.141E-01 9.152E-01 9.161E-01
SOIL AIR    1.890E+00 1.910E+00 1.927E+00 1.952E+00 1.964E+00 1.976E+00 1.957E+00 1.951E+00 1.942E+00 1.921E+00 1.922E+00 1.930E+00

POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

  -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 5.380E-04 6.415E-03 6.896E-03 5.399E-03 2.856E-03 1.199E-03 4.417E-04 0.000E+00 0.000E+00 0.000E+00
                YEAR -  80 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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                 32.338
TOTAL INFILTRATION (CM)                  25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                  6.491
TOTAL GRW RUNOFF (CM)                    1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                       7.763
  -- 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

  SOIL ZONE 2:

    SUBLAYER  1

  SOIL ZONE 3:

    SUBLAYER  1

  LOWER SOIL ZONE:

    SUBLAYER  1

    SUBLAYER  2
```

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 6.081E+07

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 6.587E-01
ADSORBED SOIL (UG/G) 2.230E-01
SOIL AIR (UG/ML) 4.813E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.273E-01
ADSORBED SOIL (UG/G) 1.785E-01
SOIL AIR (UG/ML) 3.853E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 6.641E-01
ADSORBED SOIL (UG/G) 2.248E-01
SOIL AIR (UG/ML) 4.853E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 8.585E-01
ADSORBED SOIL (UG/G) 2.906E-01

SOIL AIR (UG/ML) 6.274E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 1.144E+00
ADSORBED SOIL (UG/G) 3.871E-01
SOIL AIR (UG/ML) 8.357E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.571E+00
ADSORBED SOIL (UG/G) 5.318E-01
SOIL AIR (UG/ML) 1.148E+00

SUBLAYER 6

SOIL MOISTURE (UG/ML) 2.184E+00
ADSORBED SOIL (UG/G) 7.393E-01
SOIL AIR (UG/ML) 1.596E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.933E+00
ADSORBED SOIL (UG/G) 9.928E-01
SOIL AIR (UG/ML) 2.143E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.540E+00
ADSORBED SOIL (UG/G) 1.198E+00
SOIL AIR (UG/ML) 2.587E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.529E+00
ADSORBED SOIL (UG/G) 1.195E+00
SOIL AIR (UG/ML) 2.579E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 2.651E+00
ADSORBED SOIL (UG/G) 8.973E-01
SOIL AIR (UG/ML) 1.937E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 1.979E-03

1

YEAR - 90 MONTHLY RESULTS (OUTPUT)
======== ==========

– HYDROLOGIC CYCLE COMPONENTS –

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
'APOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
IS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427

SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199

PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	2.201E+08	2.407E+08	2.634E+08	3.129E+08	3.132E+08	3.006E+08	2.785E+08	2.601E+08	2.479E+08	2.392E+08	2.321E+08	2.239E+08
ADS ON SOIL	1.499E+09	1.487E+09	1.476E+09	1.455E+09	1.449E+09	1.446E+09	1.452E+09	1.457E+09	1.462E+09	1.468E+09	1.470E+09	1.470E+09
IN SOIL AIR	4.440E+08	4.297E+08	4.122E+08	3.715E+08	3.681E+08	3.757E+08	3.873E+08	3.998E+08	4.071E+08	4.095E+08	4.149E+08	4.221E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.847E+07	3.114E+07	3.409E+07	4.051E+07	4.053E+07	3.889E+07	3.603E+07	3.364E+07	3.206E+07	3.093E+07	3.002E+07	2.896E+07
ADS ON SOIL	1.939E+08	1.925E+08	1.910E+08	1.883E+08	1.875E+08	1.871E+08	1.879E+08	1.885E+08	1.891E+08	1.899E+08	1.901E+08	1.901E+08
IN SOIL AIR	5.742E+07	5.560E+07	5.336E+07	4.809E+07	4.763E+07	4.861E+07	5.011E+07	5.171E+07	5.265E+07	5.297E+07	5.367E+07	5.460E+07

SUBLAYER 2

IN SOIL MOI	3.586E+07	3.923E+07	4.295E+07	5.103E+07	5.105E+07	4.898E+07	4.537E+07	4.236E+07	4.038E+07	3.896E+07	3.780E+07	3.648E+07
ADS ON SOIL	2.443E+08	2.424E+08	2.407E+08	2.372E+08	2.361E+08	2.356E+08	2.366E+08	2.374E+08	2.381E+08	2.391E+08	2.394E+08	2.394E+08
IN SOIL AIR	7.233E+07	7.004E+07	6.722E+07	6.058E+07	6.000E+07	6.122E+07	6.310E+07	6.512E+07	6.631E+07	6.671E+07	6.759E+07	6.877E+07

SUBLAYER 3

IN SOIL MOI	4.638E+07	5.073E+07	5.555E+07	6.600E+07	6.603E+07	6.334E+07	5.868E+07	5.478E+07	5.222E+07	5.038E+07	4.888E+07	4.717E+07
ADS ON SOIL	3.159E+08	3.136E+08	3.113E+08	3.068E+08	3.054E+08	3.047E+08	3.060E+08	3.070E+08	3.079E+08	3.092E+08	3.096E+08	3.096E+08
IN SOIL AIR	9.354E+07	9.058E+07	8.695E+07	7.835E+07	7.759E+07	7.918E+07	8.161E+07	8.421E+07	8.575E+07	8.627E+07	8.740E+07	8.893E+07

SUBLAYER 4

IN SOIL MOI 6.191E+07 6.773E+07 7.417E+07 8.812E+07 8.816E+07 8.457E+07 7.834E+07 7.314E+07 6.971E+07 6.726E+07 6.526E+07 6.298E+07
S ON SOIL 4.217E+08 4.186E+08 4.156E+08 4.097E+08 4.078E+08 4.068E+08 4.085E+08 4.098E+08 4.111E+08 4.129E+08 4.133E+08 4.133E+08
OIL AIR 1.249E+08 1.209E+08 1.161E+08 1.046E+08 1.036E+08 1.057E+08 1.090E+08 1.124E+08 1.145E+08 1.152E+08 1.167E+08 1.187E+08

SUBLAYER 5

IN SOIL MOI 8.574E+07 9.383E+07 1.028E+08 1.221E+08 1.222E+08 1.172E+08 1.086E+08 1.013E+08 9.660E+07 9.320E+07 9.043E+07 8.727E+07
ADS ON SOIL 5.840E+08 5.799E+08 5.759E+08 5.677E+08 5.650E+08 5.637E+08 5.661E+08 5.679E+08 5.697E+08 5.721E+08 5.727E+08 5.728E+08
IN SOIL AIR 1.729E+08 1.675E+08 1.609E+08 1.450E+08 1.436E+08 1.465E+08 1.510E+08 1.558E+08 1.586E+08 1.596E+08 1.617E+08 1.645E+08

SUBLAYER 6

IN SOIL MOI 1.226E+08 1.342E+08 1.471E+08 1.749E+08 1.750E+08 1.679E+08 1.555E+08 1.452E+08 1.384E+08 1.335E+08 1.296E+08 1.250E+08
ADS ON SOIL 8.351E+08 8.296E+08 8.242E+08 8.129E+08 8.093E+08 8.076E+08 8.110E+08 8.137E+08 8.162E+08 8.196E+08 8.205E+08 8.207E+08
IN SOIL AIR 2.473E+08 2.396E+08 2.302E+08 2.076E+08 2.056E+08 2.098E+08 2.163E+08 2.232E+08 2.273E+08 2.287E+08 2.317E+08 2.358E+08

SUBLAYER 7

IN SOIL MOI 1.752E+08 1.919E+08 2.105E+08 2.506E+08 2.510E+08 2.410E+08 2.234E+08 2.086E+08 1.988E+08 1.918E+08 1.861E+08 1.796E+08
ADS ON SOIL 1.193E+09 1.186E+09 1.180E+09 1.165E+09 1.161E+09 1.159E+09 1.165E+09 1.169E+09 1.172E+09 1.177E+09 1.179E+09 1.179E+09
IN SOIL AIR 3.533E+08 3.427E+08 3.295E+08 2.975E+08 2.949E+08 3.013E+08 3.107E+08 3.206E+08 3.264E+08 3.284E+08 3.328E+08 3.387E+08

SUBLAYER 8

IN SOIL MOI 2.342E+08 2.569E+08 2.821E+08 3.366E+08 3.378E+08 3.248E+08 3.014E+08 2.814E+08 2.682E+08 2.588E+08 2.512E+08 2.425E+08
ADS ON SOIL 1.595E+09 1.588E+09 1.581E+09 1.565E+09 1.562E+09 1.563E+09 1.571E+09 1.577E+09 1.582E+09 1.589E+09 1.590E+09 1.591E+09
IN SOIL AIR 4.724E+08 4.587E+08 4.416E+08 3.996E+08 3.969E+08 4.061E+08 4.191E+08 4.326E+08 4.405E+08 4.432E+08 4.491E+08 4.571E+08

SUBLAYER 9

IN SOIL MOI 2.677E+08 2.940E+08 3.233E+08 3.871E+08 3.895E+08 3.755E+08 3.488E+08 3.258E+08 3.106E+08 2.997E+08 2.909E+08 2.808E+08
ADS ON SOIL 1.823E+09 1.817E+09 1.812E+09 1.800E+09 1.802E+09 1.806E+09 1.819E+09 1.826E+09 1.832E+09 1.840E+09 1.842E+09 1.843E+09
IN SOIL AIR 5.399E+08 5.249E+08 5.061E+08 4.596E+08 4.577E+08 4.694E+08 4.851E+08 5.009E+08 5.101E+08 5.132E+08 5.200E+08 5.294E+08

SUBLAYER 10

IN SOIL MOI 2.354E+08 2.587E+08 2.849E+08 3.425E+08 3.460E+08 3.346E+08 3.113E+08 2.910E+08 2.774E+08 2.677E+08 2.598E+08 2.509E+08
ADS ON SOIL 1.603E+09 1.599E+09 1.596E+09 1.593E+09 1.600E+09 1.610E+09 1.623E+09 1.631E+09 1.636E+09 1.643E+09 1.645E+09 1.647E+09
IN SOIL AIR 4.747E+08 4.619E+08 4.459E+08 4.067E+08 4.066E+08 4.182E+08 4.330E+08 4.473E+08 4.556E+08 4.584E+08 4.645E+08 4.730E+08
GWR. RUNOFF 0.000E+00 0.000E+00 1.873E+06 2.228E+07 2.391E+07 1.867E+07 9.865E+06 4.142E+06 1.525E+06 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 5.362E-01 5.319E-01 5.277E-01 5.203E-01 5.181E-01 5.171E-01 5.193E-01 5.211E-01 5.228E-01 5.250E-01 5.255E-01 5.255E-01
%SOLUBILITY 2.234E-01 2.216E-01 2.199E-01 2.168E-01 2.159E-01 2.155E-01 2.164E-01 2.171E-01 2.178E-01 2.187E-01 2.190E-01 2.190E-01
ADSORBED 1.815E-01 1.801E-01 1.787E-01 1.761E-01 1.754E-01 1.751E-01 1.758E-01 1.764E-01 1.770E-01 1.777E-01 1.779E-01 1.779E-01
SOIL AIR 3.888E-01 3.907E-01 3.914E-01 3.907E-01 3.884E-01 3.869E-01 3.812E-01 3.795E-01 3.776E-01 3.734E-01 3.735E-01 3.748E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.291E-01 4.259E-01 4.227E-01 4.167E-01 4.148E-01 4.140E-01 4.157E-01 4.171E-01 4.184E-01 4.202E-01 4.206E-01 4.206E-01
%SOLUBILITY 1.788E-01 1.774E-01 1.761E-01 1.736E-01 1.729E-01 1.725E-01 1.732E-01 1.738E-01 1.743E-01 1.751E-01 1.752E-01 1.753E-01
ADSORBED 1.453E-01 1.442E-01 1.431E-01 1.411E-01 1.404E-01 1.401E-01 1.407E-01 1.412E-01 1.416E-01 1.422E-01 1.424E-01 1.424E-01
SOIL AIR 3.112E-01 3.128E-01 3.135E-01 3.129E-01 3.110E-01 3.098E-01 3.051E-01 3.038E-01 3.022E-01 2.988E-01 2.990E-01 3.000E-01

SUBLAYER 2

MOISTURE 5.405E-01 5.365E-01 5.325E-01 5.249E-01 5.225E-01 5.213E-01 5.235E-01 5.253E-01 5.269E-01 5.291E-01 5.297E-01 5.297E-01
%SOLUBILITY 2.252E-01 2.235E-01 2.219E-01 2.187E-01 2.177E-01 2.172E-01 2.181E-01 2.189E-01 2.195E-01 2.205E-01 2.207E-01 2.207E-01
ADSORBED 1.830E-01 1.816E-01 1.803E-01 1.777E-01 1.769E-01 1.765E-01 1.772E-01 1.778E-01 1.784E-01 1.791E-01 1.793E-01 1.793E-01
SOIL AIR 3.920E-01 3.940E-01 3.949E-01 3.942E-01 3.917E-01 3.901E-01 3.843E-01 3.826E-01 3.805E-01 3.764E-01 3.765E-01 3.778E-01

SUBLAYER 3

MOISTURE 6.990E-01 6.938E-01 6.888E-01 6.789E-01 6.758E-01 6.742E-01 6.770E-01 6.792E-01 6.814E-01 6.842E-01 6.850E-01 6.850E-01
%SOLUBILITY 2.912E-01 2.891E-01 2.870E-01 2.829E-01 2.816E-01 2.809E-01 2.821E-01 2.830E-01 2.839E-01 2.851E-01 2.854E-01 2.854E-01
ADSORBED 2.366E-01 2.349E-01 2.332E-01 2.298E-01 2.288E-01 2.282E-01 2.292E-01 2.299E-01 2.307E-01 2.316E-01 2.319E-01 2.319E-01
SOIL AIR 5.069E-01 5.096E-01 5.108E-01 5.099E-01 5.066E-01 5.045E-01 4.970E-01 4.947E-01 4.921E-01 4.867E-01 4.869E-01 4.886E-01

SUBLAYER 4

MOISTURE 9.331E-01 9.263E-01 9.197E-01 9.066E-01 9.023E-01 9.002E-01 9.039E-01 9.069E-01 9.097E-01 9.135E-01 9.145E-01 9.146E-01
%SOLUBILITY 3.888E-01 3.860E-01 3.832E-01 3.777E-01 3.759E-01 3.751E-01 3.766E-01 3.779E-01 3.790E-01 3.806E-01 3.810E-01 3.811E-01
ADSORBED 3.159E-01 3.136E-01 3.113E-01 3.069E-01 3.054E-01 3.047E-01 3.060E-01 3.070E-01 3.079E-01 3.092E-01 3.096E-01 3.096E-01
SOIL AIR 6.766E-01 6.803E-01 6.820E-01 6.808E-01 6.764E-01 6.736E-01 6.635E-01 6.605E-01 6.570E-01 6.498E-01 6.500E-01 6.523E-01

SUBLAYER 5

MOISTURE 1.292E+00 1.283E+00 1.274E+00 1.256E+00 1.250E+00 1.247E+00 1.253E+00 1.257E+00 1.260E+00 1.266E+00 1.267E+00 1.267E+00
%SOLUBILITY 5.384E-01 5.347E-01 5.309E-01 5.234E-01 5.210E-01 5.198E-01 5.219E-01 5.236E-01 5.252E-01 5.274E-01 5.280E-01 5.281E-01
ADSORBED 4.375E-01 4.344E-01 4.314E-01 4.253E-01 4.232E-01 4.223E-01 4.240E-01 4.254E-01 4.267E-01 4.285E-01 4.289E-01 4.290E-01
SOIL AIR 9.371E-01 9.424E-01 9.450E-01 9.434E-01 9.373E-01 9.334E-01 9.194E-01 9.152E-01 9.104E-01 9.003E-01 9.007E-01 9.039E-01

SUBLAYER 6

MOISTURE 1.848E+00 1.836E+00 1.824E+00 1.799E+00 1.791E+00 1.787E+00 1.795E+00 1.800E+00 1.806E+00 1.814E+00 1.816E+00 1.816E+00
%SOLUBILITY 7.699E-01 7.648E-01 7.598E-01 7.495E-01 7.461E-01 7.446E-01 7.477E-01 7.502E-01 7.525E-01 7.557E-01 7.565E-01 7.567E-01
ADSORBED 6.255E-01 6.214E-01 6.173E-01 6.089E-01 6.062E-01 6.049E-01 6.075E-01 6.095E-01 6.114E-01 6.139E-01 6.146E-01 6.147E-01
SOIL AIR 1.340E+00 1.348E+00 1.352E+00 1.351E+00 1.342E+00 1.337E+00 1.317E+00 1.311E+00 1.304E+00 1.290E+00 1.291E+00 1.295E+00

SUBLAYER 7

MOISTURE 2.640E+00 2.625E+00 2.610E+00 2.578E+00 2.569E+00 2.565E+00 2.577E+00 2.586E+00 2.594E+00 2.605E+00 2.608E+00 2.609E+00
%SOLUBILITY 1.100E+00 1.094E+00 1.088E+00 1.074E+00 1.070E+00 1.069E+00 1.074E+00 1.078E+00 1.081E+00 1.085E+00 1.087E+00 1.087E+00
ADSORBED 8.939E-01 8.886E-01 8.836E-01 8.726E-01 8.695E-01 8.684E-01 8.725E-01 8.754E-01 8.781E-01 8.818E-01 8.828E-01 8.831E-01
SOIL AIR 1.915E+00 1.928E+00 1.936E+00 1.936E+00 1.925E+00 1.920E+00 1.892E+00 1.883E+00 1.873E+00 1.853E+00 1.854E+00 1.861E+00

SUBLAYER 8

MOISTURE 3.530E+00 3.513E+00 3.498E+00 3.463E+00 3.457E+00 3.458E+00 3.477E+00 3.489E+00 3.500E+00 3.515E+00 3.519E+00 3.521E+00
%SOLUBILITY 1.471E+00 1.464E+00 1.457E+00 1.443E+00 1.440E+00 1.441E+00 1.449E+00 1.454E+00 1.458E+00 1.465E+00 1.466E+00 1.467E+00
ADSORBED 1.195E+00 1.189E+00 1.184E+00 1.172E+00 1.170E+00 1.171E+00 1.177E+00 1.181E+00 1.185E+00 1.190E+00 1.191E+00 1.192E+00
SOIL AIR 2.560E+00 2.580E+00 2.594E+00 2.601E+00 2.591E+00 2.587E+00 2.552E+00 2.541E+00 2.528E+00 2.500E+00 2.502E+00 2.511E+00

SUBLAYER 9

MOISTURE 4.035E+00 4.021E+00 4.009E+00 3.982E+00 3.986E+00 3.997E+00 4.025E+00 4.040E+00 4.053E+00 4.071E+00 4.075E+00 4.078E+00
%SOLUBILITY 1.681E+00 1.675E+00 1.670E+00 1.659E+00 1.661E+00 1.665E+00 1.677E+00 1.683E+00 1.689E+00 1.696E+00 1.698E+00 1.699E+00
ADSORBED 1.366E+00 1.361E+00 1.357E+00 1.348E+00 1.349E+00 1.353E+00 1.362E+00 1.368E+00 1.372E+00 1.378E+00 1.380E+00 1.381E+00
SOIL AIR 2.926E+00 2.953E+00 2.973E+00 2.991E+00 2.988E+00 2.991E+00 2.954E+00 2.942E+00 2.927E+00 2.895E+00 2.897E+00 2.909E+00

SUBLAYER 10

STURE 3.547E+00 3.538E+00 3.532E+00 3.524E+00 3.541E+00 3.561E+00 3.592E+00 3.608E+00 3.620E+00 3.636E+00 3.640E+00 3.643E+00
%SOLUBILITY 1.478E+00 1.474E+00 1.472E+00 1.468E+00 1.475E+00 1.484E+00 1.497E+00 1.503E+00 1.508E+00 1.515E+00 1.517E+00 1.518E+00
ADSORBED 1.201E+00 1.198E+00 1.196E+00 1.193E+00 1.199E+00 1.206E+00 1.216E+00 1.221E+00 1.225E+00 1.231E+00 1.232E+00 1.233E+00
SOIL AIR 2.572E+00 2.599E+00 2.620E+00 2.646E+00 2.654E+00 2.665E+00 2.637E+00 2.628E+00 2.615E+00 2.586E+00 2.588E+00 2.598E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 7.313E-04 8.696E-03 9.322E-03 7.283E-03 3.848E-03 1.615E-03 5.948E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 90 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

-- 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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 8.227E+07
1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 5.242E-01
ADSORBED SOIL (UG/G) 1.775E-01
SOIL AIR (UG/ML) 3.831E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.196E-01
ADSORBED SOIL (UG/G) 1.421E-01
SOIL AIR (UG/ML) 3.067E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 5.285E-01
ADSORBED SOIL (UG/G) 1.789E-01
SOIL AIR (UG/ML) 3.862E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 6.835E-01
ADSORBED SOIL (UG/G) 2.314E-01
SOIL AIR (UG/ML) 4.995E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 9.126E-01
ADSORBED SOIL (UG/G) 3.089E-01
SOIL AIR (UG/ML) 6.669E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.264E+00
ADSORBED SOIL (UG/G) 4.280E-01
SOIL AIR (UG/ML) 9.240E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.811E+00
ADSORBED SOIL (UG/G) 6.130E-01
SOIL AIR (UG/ML) 1.323E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.597E+00
ADSORBED SOIL (UG/G) 8.792E-01
SOIL AIR (UG/ML) 1.898E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.495E+00
ADSORBED SOIL (UG/G) 1.183E+00
SOIL AIR (UG/ML) 2.554E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.031E+00
ADSORBED SOIL (UG/G) 1.365E+00
SOIL AIR (UG/ML) 2.946E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 3.582E+00
ADSORBED SOIL (UG/G) 1.213E+00
SOIL AIR (UG/ML) 2.617E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 2.674E-03

YEAR - 100 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
L. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095

YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+0(
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.752E+08	1.915E+08	2.096E+08	2.491E+08	2.493E+08	2.392E+08	2.216E+08	2.070E+08	1.973E+08	1.903E+08	1.847E+08	1.782E+08
ADS ON SOIL	1.193E+09	1.184E+09	1.175E+09	1.158E+09	1.153E+09	1.151E+09	1.156E+09	1.160E+09	1.163E+09	1.168E+09	1.170E+09	1.170E+09
IN SOIL AIR	3.533E+08	3.420E+08	3.281E+08	2.957E+08	2.930E+08	2.990E+08	3.083E+08	3.182E+08	3.240E+08	3.259E+08	3.302E+08	3.360E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	2.266E+07	2.478E+07	2.713E+07	3.224E+07	3.226E+07	3.095E+07	2.867E+07	2.677E+07	2.552E+07	2.462E+07	2.389E+07	2.305E+07
ADS ON SOIL	1.543E+08	1.532E+08	1.520E+08	1.499E+08	1.492E+08	1.489E+08	1.495E+08	1.500E+08	1.505E+08	1.511E+08	1.513E+08	1.513E+08
IN SOIL AIR	4.570E+07	4.425E+07	4.247E+07	3.827E+07	3.791E+07	3.869E+07	3.988E+07	4.115E+07	4.190E+07	4.216E+07	4.271E+07	4.346E+07

SUBLAYER 2

IN SOIL MOI	2.854E+07	3.122E+07	3.418E+07	4.061E+07	4.063E+07	3.898E+07	3.611E+07	3.371E+07	3.214E+07	3.100E+07	3.008E+07	2.903E+07
ADS ON SOIL	1.944E+08	1.929E+08	1.915E+08	1.888E+08	1.879E+08	1.875E+08	1.883E+08	1.889E+08	1.895E+08	1.903E+08	1.905E+08	1.905E+08
IN SOIL AIR	5.756E+07	5.574E+07	5.350E+07	4.821E+07	4.775E+07	4.872E+07	5.022E+07	5.183E+07	5.277E+07	5.309E+07	5.379E+07	5.473E+07

SUBLAYER 3

IN SOIL MOI	3.691E+07	4.038E+07	4.421E+07	5.253E+07	5.255E+07	5.041E+07	4.670E+07	4.360E+07	4.156E+07	4.010E+07	3.891E+07	3.754E+07
ADS ON SOIL	2.514E+08	2.496E+08	2.477E+08	2.442E+08	2.431E+08	2.425E+08	2.435E+08	2.443E+08	2.451E+08	2.461E+08	2.464E+08	2.464E+08
IN SOIL AIR	7.445E+07	7.209E+07	6.920E+07	6.236E+07	6.176E+07	6.302E+07	6.495E+07	6.703E+07	6.825E+07	6.866E+07	6.956E+07	7.078E+07

SUBLAYER 4

IN SOIL MOI	4.934E+07	5.398E+07	5.911E+07	7.023E+07	7.025E+07	6.739E+07	6.242E+07	5.828E+07	5.555E+07	5.359E+07	5.200E+07	5.018E+07
ADS ON SOIL	3.361E+08	3.336E+08	3.312E+08	3.265E+08	3.249E+08	3.242E+08	3.255E+08	3.266E+08	3.276E+08	3.290E+08	3.293E+08	3.294E+08

IN SOIL AIR 9.951E+07 9.637E+07 9.252E+07 8.337E+07 8.256E+07 8.424E+07 8.682E+07 8.959E+07 9.122E+07 9.177E+07 9.298E+07 9.461E+07

SUBLAYER 5

N SOIL MOI 6.860E+07 7.507E+07 8.222E+07 9.769E+07 9.772E+07 9.373E+07 8.682E+07 8.105E+07 7.726E+07 7.453E+07 7.232E+07 6.979E+07
ADS ON SOIL 4.673E+08 4.640E+08 4.607E+08 4.542E+08 4.520E+08 4.509E+08 4.527E+08 4.542E+08 4.556E+08 4.575E+08 4.580E+08 4.581E+08
IN SOIL AIR 1.384E+08 1.340E+08 1.287E+08 1.160E+08 1.148E+08 1.172E+08 1.208E+08 1.246E+08 1.269E+08 1.276E+08 1.293E+08 1.316E+08

SUBLAYER 6

IN SOIL MOI 9.975E+07 1.092E+08 1.196E+08 1.422E+08 1.422E+08 1.364E+08 1.264E+08 1.180E+08 1.124E+08 1.085E+08 1.053E+08 1.016E+08
ADS ON SOIL 6.794E+08 6.748E+08 6.703E+08 6.609E+08 6.578E+08 6.563E+08 6.590E+08 6.611E+08 6.631E+08 6.659E+08 6.666E+08 6.668E+08
N SOIL AIR 2.012E+08 1.949E+08 1.872E+08 1.688E+08 1.671E+08 1.705E+08 1.758E+08 1.814E+08 1.847E+08 1.858E+08 1.882E+08 1.915E+08

SUBLAYER 7

N SOIL MOI 1.492E+08 1.634E+08 1.791E+08 2.131E+08 2.132E+08 2.047E+08 1.896E+08 1.770E+08 1.687E+08 1.628E+08 1.580E+08 1.525E+08
ADS ON SOIL 1.016E+09 1.010E+09 1.004E+09 9.906E+08 9.863E+08 9.845E+08 9.889E+08 9.921E+08 9.951E+08 9.993E+08 1.000E+09 1.001E+09
IN SOIL AIR 3.009E+08 2.917E+08 2.804E+08 2.530E+08 2.506E+08 2.558E+08 2.638E+08 2.722E+08 2.771E+08 2.788E+08 2.825E+08 2.875E+08

SUBLAYER 8

N SOIL MOI 2.175E+08 2.385E+08 2.617E+08 3.119E+08 3.125E+08 3.003E+08 2.785E+08 2.600E+08 2.478E+08 2.391E+08 2.320E+08 2.240E+08
ADS ON SOIL 1.482E+09 1.474E+09 1.467E+09 1.450E+09 1.446E+09 1.445E+09 1.452E+09 1.457E+09 1.461E+09 1.468E+09 1.469E+09 1.470E+09
N SOIL AIR 4.387E+08 4.258E+08 4.097E+08 3.702E+08 3.673E+08 3.754E+08 3.873E+08 3.997E+08 4.069E+08 4.094E+08 4.148E+08 4.222E+08

SUBLAYER 9

IN SOIL MOI 2.823E+08 3.099E+08 3.406E+08 4.070E+08 4.088E+08 3.936E+08 3.654E+08 3.412E+08 3.252E+08 3.138E+08 3.045E+08 2.940E+08
ADS ON SOIL 1.923E+09 1.915E+09 1.909E+09 1.892E+09 1.891E+09 1.894E+09 1.905E+09 1.912E+09 1.918E+09 1.926E+09 1.929E+09 1.930E+09
N SOIL AIR 5.694E+08 5.533E+08 5.331E+08 4.832E+08 4.805E+08 4.920E+08 5.081E+08 5.245E+08 5.341E+08 5.374E+08 5.445E+08 5.543E+08

SUBLAYER 10

SOIL MOI 2.902E+08 3.188E+08 3.509E+08 4.209E+08 4.242E+08 4.096E+08 3.807E+08 3.557E+08 3.391E+08 3.272E+08 3.176E+08 3.066E+08
ON SOIL 1.976E+09 1.971E+09 1.966E+09 1.957E+09 1.962E+09 1.970E+09 1.985E+09 1.993E+09 2.000E+09 2.009E+09 2.011E+09 2.013E+09
SOIL AIR 5.852E+08 5.693E+08 5.492E+08 4.997E+08 4.985E+08 5.119E+08 5.295E+08 5.468E+08 5.569E+08 5.603E+08 5.678E+08 5.781E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.307E+06 2.741E+07 2.935E+07 2.288E+07 1.207E+07 5.064E+06 1.864E+06 0.000E+00 0.000E+00 0.000E+00

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

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UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
DSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
DSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

STURE 4.267E-01 4.233E-01 4.200E-01 4.141E-01 4.124E-01 4.116E-01 4.133E-01 4.147E-01 4.161E-01 4.178E-01 4.182E-01 4.183E-01
LUBILITY 1.778E-01 1.764E-01 1.750E-01 1.725E-01 1.718E-01 1.715E-01 1.722E-01 1.728E-01 1.734E-01 1.741E-01 1.743E-01 1.743E-01

ADSORBED 1.445E-01 1.433E-01 1.422E-01 1.402E-01 1.396E-01 1.393E-01 1.399E-01 1.404E-01 1.408E-01 1.414E-01 1.416E-01 1.416E-01
SOIL AIR 3.095E-01 3.109E-01 3.115E-01 3.110E-01 3.091E-01 3.080E-01 3.034E-01 3.021E-01 3.005E-01 2.972E-01 2.973E-01 2.983E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 3.415E-01 3.389E-01 3.364E-01 3.316E-01 3.301E-01 3.294E-01 3.308E-01 3.319E-01 3.330E-01 3.344E-01 3.347E-01 3.347E-01
%SOLUBILITY 1.423E-01 1.412E-01 1.402E-01 1.382E-01 1.376E-01 1.373E-01 1.378E-01 1.383E-01 1.387E-01 1.393E-01 1.395E-01 1.395E-01
ADSORBED 1.156E-01 1.147E-01 1.139E-01 1.123E-01 1.118E-01 1.115E-01 1.120E-01 1.124E-01 1.127E-01 1.132E-01 1.133E-01 1.133E-01
SOIL AIR 2.477E-01 2.489E-01 2.495E-01 2.491E-01 2.475E-01 2.465E-01 2.428E-01 2.418E-01 2.405E-01 2.378E-01 2.379E-01 2.387E-01

SUBLAYER 2

MOISTURE 4.302E-01 4.269E-01 4.238E-01 4.177E-01 4.158E-01 4.149E-01 4.166E-01 4.180E-01 4.193E-01 4.211E-01 4.215E-01 4.216E-01
%SOLUBILITY 1.792E-01 1.779E-01 1.766E-01 1.741E-01 1.733E-01 1.729E-01 1.736E-01 1.742E-01 1.747E-01 1.755E-01 1.756E-01 1.757E-01
ADSORBED 1.456E-01 1.445E-01 1.435E-01 1.414E-01 1.408E-01 1.405E-01 1.410E-01 1.415E-01 1.420E-01 1.426E-01 1.427E-01 1.427E-01
SOIL AIR 3.119E-01 3.136E-01 3.143E-01 3.137E-01 3.117E-01 3.105E-01 3.058E-01 3.045E-01 3.029E-01 2.995E-01 2.996E-01 3.007E-01

SUBLAYER 3

MOISTURE 5.563E-01 5.522E-01 5.482E-01 5.404E-01 5.379E-01 5.366E-01 5.388E-01 5.406E-01 5.423E-01 5.446E-01 5.452E-01 5.452E-01
%SOLUBILITY 2.318E-01 2.301E-01 2.284E-01 2.252E-01 2.241E-01 2.236E-01 2.245E-01 2.253E-01 2.260E-01 2.269E-01 2.272E-01 2.272E-01
ADSORBED 1.883E-01 1.869E-01 1.856E-01 1.829E-01 1.821E-01 1.817E-01 1.824E-01 1.830E-01 1.836E-01 1.844E-01 1.845E-01 1.846E-01
SOIL AIR 4.034E-01 4.056E-01 4.065E-01 4.058E-01 4.032E-01 4.016E-01 3.955E-01 3.937E-01 3.917E-01 3.874E-01 3.875E-01 3.889E-01

SUBLAYER 4

MOISTURE 7.436E-01 7.382E-01 7.329E-01 7.224E-01 7.190E-01 7.173E-01 7.202E-01 7.226E-01 7.249E-01 7.279E-01 7.287E-01 7.288E-01
%SOLUBILITY 3.098E-01 3.076E-01 3.054E-01 3.010E-01 2.996E-01 2.989E-01 3.001E-01 3.011E-01 3.020E-01 3.033E-01 3.036E-01 3.037E-01
ADSORBED 2.517E-01 2.499E-01 2.481E-01 2.446E-01 2.434E-01 2.428E-01 2.438E-01 2.446E-01 2.454E-01 2.464E-01 2.467E-01 2.467E-01
SOIL AIR 5.392E-01 5.422E-01 5.435E-01 5.425E-01 5.390E-01 5.368E-01 5.287E-01 5.263E-01 5.235E-01 5.177E-01 5.180E-01 5.198E-01

SUBLAYER 5

MOISTURE 1.034E+00 1.027E+00 1.019E+00 1.005E+00 1.000E+00 9.977E-01 1.002E+00 1.005E+00 1.008E+00 1.012E+00 1.013E+00 1.014E+00
%SOLUBILITY 4.308E-01 4.277E-01 4.248E-01 4.187E-01 4.167E-01 4.157E-01 4.174E-01 4.188E-01 4.200E-01 4.218E-01 4.222E-01 4.223E-01
ADSORBED 3.500E-01 3.475E-01 3.451E-01 3.402E-01 3.385E-01 3.377E-01 3.391E-01 3.402E-01 3.413E-01 3.427E-01 3.431E-01 3.431E-01
SOIL AIR 7.498E-01 7.540E-01 7.560E-01 7.547E-01 7.497E-01 7.466E-01 7.354E-01 7.320E-01 7.281E-01 7.200E-01 7.203E-01 7.229E-01

SUBLAYER 6

MOISTURE 1.503E+00 1.493E+00 1.483E+00 1.462E+00 1.455E+00 1.452E+00 1.458E+00 1.463E+00 1.467E+00 1.474E+00 1.475E+00 1.475E+00
%SOLUBILITY 6.264E-01 6.222E-01 6.180E-01 6.094E-01 6.064E-01 6.051E-01 6.076E-01 6.095E-01 6.114E-01 6.140E-01 6.146E-01 6.147E-01
ADSORBED 5.089E-01 5.055E-01 5.021E-01 4.951E-01 4.927E-01 4.916E-01 4.936E-01 4.952E-01 4.967E-01 4.988E-01 4.993E-01 4.995E-01
SOIL AIR 1.090E+00 1.097E+00 1.100E+00 1.098E+00 1.091E+00 1.087E+00 1.070E+00 1.065E+00 1.060E+00 1.048E+00 1.049E+00 1.052E+00

SUBLAYER 7

MOISTURE 2.248E+00 2.235E+00 2.221E+00 2.192E+00 2.182E+00 2.178E+00 2.188E+00 2.195E+00 2.202E+00 2.211E+00 2.214E+00 2.214E+00
%SOLUBILITY 9.369E-01 9.311E-01 9.254E-01 9.133E-01 9.093E-01 9.077E-01 9.117E-01 9.147E-01 9.175E-01 9.213E-01 9.223E-01 9.226E-01
ADSORBED 7.612E-01 7.565E-01 7.519E-01 7.420E-01 7.388E-01 7.375E-01 7.407E-01 7.431E-01 7.454E-01 7.485E-01 7.494E-01 7.496E-01
SOIL AIR 1.631E+00 1.641E+00 1.647E+00 1.646E+00 1.636E+00 1.630E+00 1.606E+00 1.599E+00 1.590E+00 1.573E+00 1.573E+00 1.579E+00

SUBLAYER 8

MOISTURE 3.279E+00 3.261E+00 3.245E+00 3.208E+00 3.199E+00 3.197E+00 3.213E+00 3.224E+00 3.233E+00 3.247E+00 3.251E+00 3.252E+00
%SOLUBILITY 1.366E+00 1.359E+00 1.352E+00 1.337E+00 1.333E+00 1.332E+00 1.339E+00 1.343E+00 1.347E+00 1.353E+00 1.355E+00 1.355E+00
ADSORBED 1.110E+00 1.104E+00 1.099E+00 1.086E+00 1.083E+00 1.082E+00 1.088E+00 1.091E+00 1.095E+00 1.099E+00 1.101E+00 1.101E+00
SOIL AIR 2.377E+00 2.395E+00 2.407E+00 2.409E+00 2.398E+00 2.392E+00 2.358E+00 2.348E+00 2.335E+00 2.310E+00 2.311E+00 2.320E+00

SUBLAYER 9

MOISTURE 4.255E+00 4.238E+00 4.223E+00 4.187E+00 4.184E+00 4.190E+00 4.215E+00 4.231E+00 4.244E+00 4.262E+00 4.267E+00 4.270E+00
%SOLUBILITY 1.773E+00 1.766E+00 1.760E+00 1.745E+00 1.743E+00 1.746E+00 1.756E+00 1.763E+00 1.768E+00 1.776E+00 1.778E+00 1.779E+00
ADSORBED 1.440E+00 1.435E+00 1.430E+00 1.417E+00 1.416E+00 1.418E+00 1.427E+00 1.432E+00 1.437E+00 1.443E+00 1.445E+00 1.445E+00
SOIL AIR 3.086E+00 3.113E+00 3.132E+00 3.144E+00 3.137E+00 3.135E+00 3.094E+00 3.081E+00 3.065E+00 3.032E+00 3.033E+00 3.045E+00

SUBLAYER 10

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MOISTURE    4.373E+00 4.360E+00 4.351E+00 4.330E+00 4.342E+00 4.359E+00 4.393E+00 4.411E+00 4.425E+00 4.444E+00 4.450E+00 4.453E+00
SOLUBILITY 1.822E+00 1.817E+00 1.813E+00 1.804E+00 1.809E+00 1.816E+00 1.830E+00 1.838E+00 1.844E+00 1.852E+00 1.854E+00 1.856E+00
ORBED    1.480E+00 1.476E+00 1.473E+00 1.466E+00 1.470E+00 1.476E+00 1.487E+00 1.493E+00 1.498E+00 1.504E+00 1.506E+00 1.508E+00
IL AIR    3.171E+00 3.202E+00 3.226E+00 3.252E+00 3.255E+00 3.262E+00 3.225E+00 3.212E+00 3.196E+00 3.161E+00 3.163E+00 3.176E+00

POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 9.007E-04 1.069E-02 1.143E-02 8.915E-03 4.705E-03 1.975E-03 7.270E-04 0.000E+00 0.000E+00 0.000E+00
1                YEAR - 100 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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                 32.338
TOTAL INFILTRATION (CM)                  25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                    1.265
TOTAL MOISTURE RETENTION (CM)              0.001
AL YIELD (CM)                          7.763
-- 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

SOIL ZONE 2:

SUBLAYER  1

SOIL ZONE 3:

SUBLAYER  1

LOWER SOIL ZONE:

SUBLAYER  1

SUBLAYER  2

SUBLAYER  3

SUBLAYER  4
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SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.009E+08
1 -- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.172E-01
ADSORBED SOIL (UG/G) 1.412E-01
SOIL AIR (UG/ML) 3.049E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.340E-01
ADSORBED SOIL (UG/G) 1.131E-01
SOIL AIR (UG/ML) 2.441E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 4.206E-01
ADSORBED SOIL (UG/G) 1.424E-01
SOIL AIR (UG/ML) 3.074E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 5.440E-01
ADSORBED SOIL (UG/G) 1.842E-01
SOIL AIR (UG/ML) 3.976E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 7.272E-01
ADSORBED SOIL (UG/G) 2.462E-01
SOIL AIR (UG/ML) 5.314E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 1.011E+00
ADSORBED SOIL (UG/G) 3.424E-01
SOIL AIR (UG/ML) 7.391E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.472E+00
ADSORBED SOIL (UG/G) 4.982E-01
SOIL AIR (UG/ML) 1.076E+00

SUBLAYER 7

SOIL MOISTURE (UG/ML) 2.207E+00
ADSORBED SOIL (UG/G) 7.470E-01
SOIL AIR (UG/ML) 1.613E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 3.234E+00
ADSORBED SOIL (UG/G) 1.095E+00
SOIL AIR (UG/ML) 2.363E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.231E+00
ADSORBED SOIL (UG/G) 1.432E+00
SOIL AIR (UG/ML) 3.091E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.391E+00
ADSORBED SOIL (UG/G) 1.486E+00
SOIL AIR (UG/ML) 3.209E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.278E-03
1

YEAR - 110 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 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
SUBW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
LD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199

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PAU/MPA (GZU)     1.088  0.992  0.998  0.992  1.000  0.998  1.001  1.138  1.002  1.705  2.177  1.008
PA/MPA (GZ)       1.088  0.992  0.998  0.992  1.000  0.998  1.001  1.138  1.002  1.705  2.177  1.008

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

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

   SOIL ZONE 2:

      SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

   SOIL ZONE 3:

      SUBLAYER 1

IN SOIL MOI 1.394E+08 1.524E+08 1.668E+08 1.982E+08 1.984E+08 1.904E+08 1.764E+08 1.647E+08 1.570E+08 1.515E+08 1.470E+08 1.418E+08
ADS ON SOIL 9.497E+08 9.421E+08 9.347E+08 9.215E+08 9.177E+08 9.159E+08 9.198E+08 9.230E+08 9.259E+08 9.298E+08 9.308E+08 9.308E+08
IN SOIL AIR 2.812E+08 2.721E+08 2.611E+08 2.353E+08 2.332E+08 2.380E+08 2.453E+08 2.532E+08 2.578E+08 2.594E+08 2.628E+08 2.674E+08

   LOWER SOIL ZONE:

      SUBLAYER 1

IN SOIL MOI 1.803E+07 1.972E+07 2.159E+07 2.565E+07 2.567E+07 2.463E+07 2.282E+07 2.130E+07 2.031E+07 1.959E+07 1.901E+07 1.834E+07
ADS ON SOIL 1.228E+08 1.219E+08 1.210E+08 1.193E+08 1.187E+08 1.185E+08 1.190E+08 1.194E+08 1.198E+08 1.203E+08 1.204E+08 1.204E+08
IN SOIL AIR 3.637E+07 3.521E+07 3.380E+07 3.046E+07 3.017E+07 3.079E+07 3.173E+07 3.275E+07 3.335E+07 3.355E+07 3.399E+07 3.458E+07

      SUBLAYER 2

IN SOIL MOI 2.271E+07 2.484E+07 2.720E+07 3.232E+07 3.233E+07 3.102E+07 2.874E+07 2.683E+07 2.557E+07 2.467E+07 2.394E+07 2.310E+07
ADS ON SOIL 1.547E+08 1.535E+08 1.524E+08 1.502E+08 1.496E+08 1.492E+08 1.498E+08 1.503E+08 1.508E+08 1.515E+08 1.516E+08 1.516E+08
IN SOIL AIR 4.581E+07 4.436E+07 4.258E+07 3.837E+07 3.800E+07 3.877E+07 3.997E+07 4.124E+07 4.200E+07 4.225E+07 4.280E+07 4.355E+07

      SUBLAYER 3

IN SOIL MOI 2.938E+07 3.214E+07 3.519E+07 4.180E+07 4.182E+07 4.012E+07 3.717E+07 3.470E+07 3.308E+07 3.191E+07 3.096E+07 2.988E+07
ADS ON SOIL 2.001E+08 1.986E+08 1.972E+08 1.944E+08 1.935E+08 1.930E+08 1.938E+08 1.944E+08 1.951E+08 1.959E+08 1.961E+08 1.961E+08
IN SOIL AIR 5.925E+07 5.738E+07 5.508E+07 4.963E+07 4.915E+07 5.015E+07 5.169E+07 5.334E+07 5.431E+07 5.464E+07 5.536E+07 5.633E+07

      SUBLAYER 4

IN SOIL MOI 3.928E+07 4.298E+07 4.706E+07 5.591E+07 5.593E+07 5.365E+07 4.970E+07 4.640E+07 4.422E+07 4.267E+07 4.140E+07 3.995E+07
ADS ON SOIL 2.676E+08 2.656E+08 2.637E+08 2.599E+08 2.587E+08 2.581E+08 2.591E+08 2.600E+08 2.608E+08 2.619E+08 2.622E+08 2.622E+08
IN SOIL AIR 7.922E+07 7.673E+07 7.366E+07 6.638E+07 6.573E+07 6.706E+07 6.912E+07 7.133E+07 7.262E+07 7.306E+07 7.402E+07 7.532E+07
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SUBLAYER 5

IN SOIL MOI 5.477E+07 5.993E+07 6.563E+07 7.798E+07 7.800E+07 7.481E+07 6.930E+07 6.470E+07 6.166E+07 5.949E+07 5.773E+07 5.571E+07
ADS ON SOIL 3.730E+08 3.704E+08 3.678E+08 3.625E+08 3.608E+08 3.599E+08 3.614E+08 3.625E+08 3.636E+08 3.652E+08 3.656E+08 3.656E+08
IN SOIL AIR 1.105E+08 1.070E+08 1.027E+08 9.258E+07 9.166E+07 9.351E+07 9.638E+07 9.945E+07 1.013E+08 1.019E+08 1.032E+08 1.050E+08

SUBLAYER 6

IN SOIL MOI 8.029E+07 8.788E+07 9.627E+07 1.144E+08 1.144E+08 1.097E+08 1.017E+08 9.489E+07 9.045E+07 8.726E+07 8.467E+07 8.171E+07
ADS ON SOIL 5.469E+08 5.431E+08 5.394E+08 5.318E+08 5.292E+08 5.279E+08 5.300E+08 5.318E+08 5.334E+08 5.356E+08 5.362E+08 5.363E+08
IN SOIL AIR 1.619E+08 1.569E+08 1.507E+08 1.358E+08 1.344E+08 1.372E+08 1.414E+08 1.459E+08 1.485E+08 1.494E+08 1.514E+08 1.541E+08

SUBLAYER 7

IN SOIL MOI 1.236E+08 1.354E+08 1.484E+08 1.764E+08 1.765E+08 1.693E+08 1.569E+08 1.464E+08 1.396E+08 1.347E+08 1.307E+08 1.261E+08
ADS ON SOIL 8.422E+08 8.368E+08 8.316E+08 8.202E+08 8.164E+08 8.146E+08 8.180E+08 8.206E+08 8.231E+08 8.266E+08 8.275E+08 8.277E+08
IN SOIL AIR 2.494E+08 2.417E+08 2.323E+08 2.095E+08 2.074E+08 2.117E+08 2.182E+08 2.251E+08 2.292E+08 2.306E+08 2.336E+08 2.378E+08

SUBLAYER 8

IN SOIL MOI 1.927E+08 2.112E+08 2.317E+08 2.758E+08 2.762E+08 2.652E+08 2.458E+08 2.294E+08 2.187E+08 2.110E+08 2.048E+08 1.976E+08
ADS ON SOIL 1.313E+09 1.305E+09 1.298E+09 1.282E+09 1.277E+09 1.276E+09 1.282E+09 1.286E+09 1.290E+09 1.295E+09 1.297E+09 1.297E+09
IN SOIL AIR 3.886E+08 3.771E+08 3.626E+08 3.274E+08 3.245E+08 3.315E+08 3.418E+08 3.527E+08 3.591E+08 3.613E+08 3.661E+08 3.726E+08

SUBLAYER 9

IN SOIL MOI 2.789E+08 3.061E+08 3.362E+08 4.012E+08 4.025E+08 3.871E+08 3.591E+08 3.353E+08 3.196E+08 3.083E+08 2.992E+08 2.889E+08
ADS ON SOIL 1.900E+09 1.892E+09 1.884E+09 1.865E+09 1.861E+09 1.862E+09 1.872E+09 1.879E+09 1.885E+09 1.893E+09 1.895E+09 1.896E+09
IN SOIL AIR 5.625E+08 5.464E+08 5.262E+08 4.763E+08 4.729E+08 4.838E+08 4.994E+08 5.154E+08 5.248E+08 5.280E+08 5.350E+08 5.446E+08

SUBLAYER 10

IN SOIL MOI 3.309E+08 3.635E+08 3.998E+08 4.788E+08 4.817E+08 4.644E+08 4.314E+08 4.030E+08 3.841E+08 3.706E+08 3.597E+08 3.473E+08
ADS ON SOIL 2.254E+09 2.247E+09 2.240E+09 2.226E+09 2.228E+09 2.234E+09 2.250E+09 2.258E+09 2.265E+09 2.275E+09 2.278E+09 2.280E+09
IN SOIL AIR 6.673E+08 6.490E+08 6.258E+08 5.684E+08 5.661E+08 5.805E+08 6.000E+08 6.195E+08 6.308E+08 6.347E+08 6.431E+08 6.548E+08
SURR. RUNOFF 0.000E+00 0.000E+00 2.629E+06 3.121E+07 3.335E+07 2.596E+07 1.368E+07 5.738E+06 2.112E+06 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 3.396E-01 3.369E-01 3.343E-01 3.295E-01 3.282E-01 3.275E-01 3.289E-01 3.301E-01 3.311E-01 3.325E-01 3.328E-01 3.329E-01
%SOLUBILITY 1.415E-01 1.404E-01 1.393E-01 1.373E-01 1.367E-01 1.365E-01 1.370E-01 1.375E-01 1.380E-01 1.385E-01 1.387E-01 1.387E-01
ADSORBED 1.150E-01 1.140E-01 1.132E-01 1.116E-01 1.111E-01 1.109E-01 1.113E-01 1.117E-01 1.121E-01 1.126E-01 1.127E-01 1.127E-01

SOIL AIR 2.463E-01 2.474E-01 2.479E-01 2.475E-01 2.460E-01 2.451E-01 2.414E-01 2.404E-01 2.391E-01 2.365E-01 2.366E-01 2.374E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.718E-01 2.697E-01 2.677E-01 2.639E-01 2.627E-01 2.622E-01 2.633E-01 2.642E-01 2.650E-01 2.661E-01 2.664E-01 2.664E-01
%SOLUBILITY 1.132E-01 1.124E-01 1.115E-01 1.100E-01 1.095E-01 1.092E-01 1.097E-01 1.101E-01 1.104E-01 1.109E-01 1.110E-01 1.110E-01
ADSORBED 9.200E-02 9.130E-02 9.062E-02 8.934E-02 8.894E-02 8.875E-02 8.912E-02 8.942E-02 8.970E-02 9.008E-02 9.017E-02 9.018E-02
SOIL AIR 1.971E-01 1.981E-01 1.985E-01 1.982E-01 1.970E-01 1.962E-01 1.933E-01 1.924E-01 1.914E-01 1.893E-01 1.893E-01 1.900E-01

SUBLAYER 2

MOISTURE 3.423E-01 3.398E-01 3.373E-01 3.324E-01 3.309E-01 3.302E-01 3.316E-01 3.327E-01 3.337E-01 3.351E-01 3.355E-01 3.355E-01
%SOLUBILITY 1.426E-01 1.416E-01 1.405E-01 1.385E-01 1.379E-01 1.376E-01 1.381E-01 1.386E-01 1.390E-01 1.396E-01 1.398E-01 1.398E-01
ADSORBED 1.159E-01 1.150E-01 1.142E-01 1.125E-01 1.120E-01 1.118E-01 1.122E-01 1.126E-01 1.130E-01 1.134E-01 1.136E-01 1.136E-01
SOIL AIR 2.482E-01 2.495E-01 2.501E-01 2.497E-01 2.481E-01 2.471E-01 2.434E-01 2.423E-01 2.410E-01 2.384E-01 2.385E-01 2.393E-01

SUBLAYER 3

MOISTURE 4.428E-01 4.395E-01 4.363E-01 4.301E-01 4.280E-01 4.271E-01 4.288E-01 4.303E-01 4.316E-01 4.334E-01 4.339E-01 4.339E-01
%SOLUBILITY 1.845E-01 1.831E-01 1.818E-01 1.792E-01 1.784E-01 1.779E-01 1.787E-01 1.793E-01 1.798E-01 1.806E-01 1.808E-01 1.808E-01
ADSORBED 1.499E-01 1.488E-01 1.477E-01 1.456E-01 1.449E-01 1.446E-01 1.452E-01 1.456E-01 1.461E-01 1.467E-01 1.469E-01 1.469E-01
SOIL AIR 3.211E-01 3.228E-01 3.235E-01 3.230E-01 3.209E-01 3.196E-01 3.148E-01 3.134E-01 3.117E-01 3.083E-01 3.084E-01 3.095E-01

SUBLAYER 4

MOISTURE 5.920E-01 5.877E-01 5.835E-01 5.752E-01 5.724E-01 5.711E-01 5.734E-01 5.753E-01 5.771E-01 5.795E-01 5.801E-01 5.802E-01
%SOLUBILITY 2.467E-01 2.449E-01 2.431E-01 2.396E-01 2.385E-01 2.379E-01 2.389E-01 2.397E-01 2.404E-01 2.415E-01 2.417E-01 2.418E-01
ADSORBED 2.004E-01 1.990E-01 1.975E-01 1.947E-01 1.938E-01 1.933E-01 1.941E-01 1.947E-01 1.954E-01 1.962E-01 1.964E-01 1.964E-01
SOIL AIR 4.293E-01 4.316E-01 4.327E-01 4.319E-01 4.291E-01 4.273E-01 4.209E-01 4.190E-01 4.168E-01 4.122E-01 4.124E-01 4.138E-01

SUBLAYER 5

MOISTURE 8.254E-01 8.195E-01 8.138E-01 8.022E-01 7.983E-01 7.963E-01 7.996E-01 8.022E-01 8.046E-01 8.080E-01 8.089E-01 8.090E-01
%SOLUBILITY 3.439E-01 3.415E-01 3.391E-01 3.342E-01 3.326E-01 3.318E-01 3.332E-01 3.342E-01 3.353E-01 3.367E-01 3.370E-01 3.371E-01
ADSORBED 2.794E-01 2.774E-01 2.755E-01 2.715E-01 2.702E-01 2.696E-01 2.707E-01 2.716E-01 2.724E-01 2.735E-01 2.738E-01 2.739E-01
SOIL AIR 5.986E-01 6.019E-01 6.035E-01 6.024E-01 5.984E-01 5.959E-01 5.869E-01 5.842E-01 5.811E-01 5.747E-01 5.750E-01 5.770E-01

SUBLAYER 6

MOISTURE 1.210E+00 1.202E+00 1.194E+00 1.177E+00 1.171E+00 1.168E+00 1.173E+00 1.177E+00 1.180E+00 1.185E+00 1.186E+00 1.187E+00
%SOLUBILITY 5.042E-01 5.007E-01 4.973E-01 4.903E-01 4.879E-01 4.867E-01 4.887E-01 4.903E-01 4.917E-01 4.938E-01 4.943E-01 4.945E-01
ADSORBED 4.096E-01 4.068E-01 4.041E-01 3.983E-01 3.964E-01 3.954E-01 3.970E-01 3.983E-01 3.995E-01 4.012E-01 4.016E-01 4.017E-01
SOIL AIR 8.775E-01 8.826E-01 8.852E-01 8.837E-01 8.778E-01 8.741E-01 8.609E-01 8.569E-01 8.524E-01 8.430E-01 8.433E-01 8.464E-01

SUBLAYER 7

MOISTURE 1.864E+00 1.852E+00 1.840E+00 1.815E+00 1.806E+00 1.802E+00 1.810E+00 1.816E+00 1.821E+00 1.829E+00 1.831E+00 1.832E+00
%SOLUBILITY 7.765E-01 7.715E-01 7.667E-01 7.562E-01 7.527E-01 7.510E-01 7.542E-01 7.566E-01 7.589E-01 7.621E-01 7.629E-01 7.631E-01
ADSORBED 6.309E-01 6.268E-01 6.229E-01 6.144E-01 6.115E-01 6.102E-01 6.127E-01 6.147E-01 6.166E-01 6.192E-01 6.198E-01 6.200E-01
SOIL AIR 1.351E+00 1.360E+00 1.365E+00 1.363E+00 1.354E+00 1.349E+00 1.329E+00 1.323E+00 1.315E+00 1.301E+00 1.302E+00 1.306E+00

SUBLAYER 8

MOISTURE 2.904E+00 2.888E+00 2.873E+00 2.837E+00 2.826E+00 2.823E+00 2.836E+00 2.845E+00 2.854E+00 2.866E+00 2.869E+00 2.870E+00
%SOLUBILITY 1.210E+00 1.203E+00 1.197E+00 1.182E+00 1.178E+00 1.176E+00 1.182E+00 1.185E+00 1.189E+00 1.194E+00 1.195E+00 1.196E+00
ADSORBED 9.832E-01 9.777E-01 9.724E-01 9.604E-01 9.568E-01 9.555E-01 9.599E-01 9.631E-01 9.660E-01 9.701E-01 9.712E-01 9.716E-01
SOIL AIR 2.106E+00 2.121E+00 2.130E+00 2.131E+00 2.119E+00 2.112E+00 2.082E+00 2.072E+00 2.061E+00 2.038E+00 2.039E+00 2.047E+00

SUBLAYER 9

MOISTURE 4.204E+00 4.185E+00 4.168E+00 4.127E+00 4.119E+00 4.120E+00 4.143E+00 4.157E+00 4.170E+00 4.188E+00 4.193E+00 4.195E+00
%SOLUBILITY 1.752E+00 1.744E+00 1.737E+00 1.720E+00 1.716E+00 1.717E+00 1.726E+00 1.732E+00 1.738E+00 1.745E+00 1.747E+00 1.748E+00
ADSORBED 1.423E+00 1.417E+00 1.411E+00 1.397E+00 1.394E+00 1.395E+00 1.402E+00 1.407E+00 1.412E+00 1.418E+00 1.419E+00 1.420E+00
SOIL AIR 3.049E+00 3.074E+00 3.091E+00 3.099E+00 3.088E+00 3.083E+00 3.041E+00 3.028E+00 3.012E+00 2.979E+00 2.980E+00 2.992E+00

SUBLAYER 10

MOISTURE 4.987E+00 4.971E+00 4.957E+00 4.925E+00 4.930E+00 4.943E+00 4.978E+00 4.997E+00 5.013E+00 5.034E+00 5.040E+00 5.044E+00

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%SOLUBILITY 2.078E+00 2.071E+00 2.066E+00 2.052E+00 2.054E+00 2.060E+00 2.074E+00 2.082E+00 2.089E+00 2.098E+00 2.100E+00 2.102E+00
ADSORBED    1.688E+00 1.683E+00 1.678E+00 1.667E+00 1.669E+00 1.673E+00 1.685E+00 1.691E+00 1.697E+00 1.704E+00 1.706E+00 1.708E+00
  L AIR    3.616E+00 3.651E+00 3.676E+00 3.699E+00 3.696E+00 3.699E+00 3.654E+00 3.639E+00 3.620E+00 3.581E+00 3.583E+00 3.597E+00


POL DEP CM  1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03


  -- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC.  0.000E+00 0.000E+00 1.026E-03 1.215E-02 1.298E-02 1.011E-02 5.332E-03 2.237E-03 8.235E-04 0.000E+00 0.000E+00 0.000E+00
1                    YEAR - 110 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 (%)          8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%)      8.992
TOTAL PRECIPITATION (CM)                 32.338
TOTAL INFILTRATION (CM)                 25.841
TOTAL EVAPOTRANSPIRATION (CM)              24.575
TOTAL SURFACE RUNOFF (CM)                 6.491
TOTAL GRW RUNOFF (CM)                   1.265
TOTAL MOISTURE RETENTION (CM)              0.001
TOTAL YIELD (CM)                      7.763
      -- 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


  SOIL ZONE 2:

    SUBLAYER  1


  SOIL ZONE 3:

    SUBLAYER  1


  LOWER SOIL ZONE:

    SUBLAYER  1


    SUBLAYER  2


    SUBLAYER  3


    SUBLAYER  4
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SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.147E+08

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.320E-01
ADSORBED SOIL (UG/G) 1.124E-01
SOIL AIR (UG/ML) 2.426E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.658E-01
ADSORBED SOIL (UG/G) 8.997E-02
SOIL AIR (UG/ML) 1.942E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 3.347E-01
ADSORBED SOIL (UG/G) 1.133E-01
SOIL AIR (UG/ML) 2.446E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 4.330E-01
ADSORBED SOIL (UG/G) 1.466E-01
SOIL AIR (UG/ML) 3.164E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 5.790E-01

ADSORBED SOIL (UG/G) 1.960E-01
SOIL AIR (UG/ML) 4.231E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 8.073E-01
ADSORBED SOIL (UG/G) 2.733E-01
SOIL AIR (UG/ML) 5.900E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 1.184E+00
ADSORBED SOIL (UG/G) 4.008E-01
SOIL AIR (UG/ML) 8.653E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.826E+00
ADSORBED SOIL (UG/G) 6.183E-01
SOIL AIR (UG/ML) 1.335E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.858E+00
ADSORBED SOIL (UG/G) 9.673E-01
SOIL AIR (UG/ML) 2.088E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 4.164E+00
ADSORBED SOIL (UG/G) 1.410E+00
SOIL AIR (UG/ML) 3.043E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 4.985E+00
ADSORBED SOIL (UG/G) 1.687E+00
SOIL AIR (UG/ML) 3.643E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.722E-03

YEAR - 120 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
P*/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

-- 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

IN SOIL MOI	2.907E-01	3.204E-01	3.533E-01	4.259E-01	4.281E-01	4.116E-01	3.797E-01	3.533E-01	3.358E-01	3.226E-01	3.127E-01	3.017E-01
ADS ON SOIL	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00	1.980E+00
IN SOIL AIR	5.863E-01	5.720E-01	5.531E-01	5.056E-01	5.031E-01	5.145E-01	5.281E-01	5.432E-01	5.514E-01	5.524E-01	5.590E-01	5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI	2.830E-01	3.119E-01	3.440E-01	4.147E-01	4.168E-01	4.007E-01	3.697E-01	3.440E-01	3.269E-01	3.141E-01	3.044E-01	2.937E-01
ADS ON SOIL	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00	1.928E+00
IN SOIL AIR	5.708E-01	5.569E-01	5.385E-01	4.923E-01	4.898E-01	5.009E-01	5.142E-01	5.289E-01	5.368E-01	5.378E-01	5.443E-01	5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI	1.109E+08	1.213E+08	1.327E+08	1.577E+08	1.579E+08	1.515E+08	1.404E+08	1.311E+08	1.249E+08	1.205E+08	1.170E+08	1.129E+08
ADS ON SOIL	7.557E+08	7.497E+08	7.438E+08	7.333E+08	7.302E+08	7.288E+08	7.319E+08	7.345E+08	7.368E+08	7.399E+08	7.406E+08	7.407E+08
IN SOIL AIR	2.238E+08	2.166E+08	2.078E+08	1.873E+08	1.855E+08	1.894E+08	1.952E+08	2.015E+08	2.052E+08	2.064E+08	2.091E+08	2.128E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI	1.435E+07	1.569E+07	1.718E+07	2.041E+07	2.043E+07	1.960E+07	1.816E+07	1.695E+07	1.616E+07	1.559E+07	1.513E+07	1.459E+07
ADS ON SOIL	9.773E+07	9.699E+07	9.627E+07	9.490E+07	9.448E+07	9.428E+07	9.467E+07	9.499E+07	9.529E+07	9.569E+07	9.578E+07	9.579E+07
IN SOIL AIR	2.894E+07	2.802E+07	2.689E+07	2.423E+07	2.400E+07	2.450E+07	2.525E+07	2.606E+07	2.653E+07	2.669E+07	2.704E+07	2.752E+07

SUBLAYER 2

IN SOIL MOI	1.807E+07	1.977E+07	2.164E+07	2.571E+07	2.573E+07	2.468E+07	2.287E+07	2.135E+07	2.035E+07	1.963E+07	1.905E+07	1.838E+07
ADS ON SOIL	1.231E+08	1.222E+08	1.213E+08	1.195E+08	1.190E+08	1.187E+08	1.192E+08	1.196E+08	1.200E+08	1.205E+08	1.206E+08	1.206E+08
IN SOIL AIR	3.645E+07	3.529E+07	3.388E+07	3.053E+07	3.023E+07	3.085E+07	3.180E+07	3.282E+07	3.342E+07	3.362E+07	3.406E+07	3.466E+07

SUBLAYER 3

IN SOIL MOI	2.338E+07	2.557E+07	2.800E+07	3.327E+07	3.328E+07	3.193E+07	2.957E+07	2.761E+07	2.632E+07	2.539E+07	2.464E+07	2.378E+07
ADS ON SOIL	1.592E+08	1.580E+08	1.569E+08	1.547E+08	1.539E+08	1.536E+08	1.542E+08	1.547E+08	1.552E+08	1.559E+08	1.560E+08	1.560E+08
IN SOIL AIR	4.715E+07	4.566E+07	4.383E+07	3.949E+07	3.911E+07	3.991E+07	4.113E+07	4.245E+07	4.322E+07	4.348E+07	4.405E+07	4.483E+07

SUBLAYER 4

IN SOIL MOI	3.126E+07	3.420E+07	3.745E+07	4.450E+07	4.451E+07	4.270E+07	3.955E+07	3.693E+07	3.520E+07	3.396E+07	3.295E+07	3.180E+07
ADS ON SOIL	2.129E+08	2.114E+08	2.099E+08	2.069E+08	2.059E+08	2.054E+08	2.062E+08	2.069E+08	2.076E+08	2.084E+08	2.087E+08	2.087E+08
IN SOIL AIR	6.305E+07	6.107E+07	5.863E+07	5.283E+07	5.231E+07	5.337E+07	5.501E+07	5.677E+07	5.780E+07	5.815E+07	5.891E+07	5.995E+07

SUBLAYER 5

IN SOIL MOI	4.364E+07	4.775E+07	5.230E+07	6.213E+07	6.215E+07	5.961E+07	5.521E+07	5.155E+07	4.913E+07	4.740E+07	4.599E+07	4.439E+07
ADS ON SOIL	2.972E+08	2.951E+08	2.931E+08	2.889E+08	2.874E+08	2.867E+08	2.879E+08	2.888E+08	2.897E+08	2.910E+08	2.913E+08	2.913E+08

IN SOIL AIR 8.801E+07 8.525E+07 8.186E+07 7.376E+07 7.303E+07 7.451E+07 7.679E+07 7.924E+07 8.068E+07 8.117E+07 8.224E+07 8.368E+07

SUBLAYER 6

IN SOIL MOI 6.428E+07 7.036E+07 7.707E+07 9.157E+07 9.158E+07 8.784E+07 8.136E+07 7.595E+07 7.239E+07 6.984E+07 6.777E+07 6.541E+07
ADS ON SOIL 4.378E+08 4.348E+08 4.319E+08 4.257E+08 4.236E+08 4.225E+08 4.243E+08 4.256E+08 4.269E+08 4.287E+08 4.292E+08 4.293E+08
IN SOIL AIR 1.296E+08 1.256E+08 1.206E+08 1.087E+08 1.076E+08 1.098E+08 1.132E+08 1.168E+08 1.189E+08 1.196E+08 1.212E+08 1.233E+08

SUBLAYER 7

IN SOIL MOI 1.008E+08 1.104E+08 1.210E+08 1.437E+08 1.438E+08 1.379E+08 1.277E+08 1.192E+08 1.137E+08 1.097E+08 1.064E+08 1.027E+08
ADS ON SOIL 6.866E+08 6.821E+08 6.778E+08 6.683E+08 6.650E+08 6.634E+08 6.661E+08 6.682E+08 6.703E+08 6.731E+08 6.738E+08 6.740E+08
IN SOIL AIR 2.033E+08 1.971E+08 1.893E+08 1.707E+08 1.690E+08 1.724E+08 1.777E+08 1.833E+08 1.866E+08 1.878E+08 1.902E+08 1.936E+08

SUBLAYER 8

IN SOIL MOI 1.651E+08 1.809E+08 1.984E+08 2.360E+08 2.362E+08 2.266E+08 2.100E+08 1.960E+08 1.868E+08 1.803E+08 1.749E+08 1.688E+08
ADS ON SOIL 1.124E+09 1.118E+09 1.112E+09 1.097E+09 1.092E+09 1.090E+09 1.095E+09 1.099E+09 1.102E+09 1.107E+09 1.108E+09 1.108E+09
IN SOIL AIR 3.329E+08 3.229E+08 3.105E+08 2.802E+08 2.775E+08 2.833E+08 2.921E+08 3.014E+08 3.068E+08 3.087E+08 3.128E+08 3.183E+08

SUBLAYER 9

IN SOIL MOI 2.621E+08 2.875E+08 3.157E+08 3.763E+08 3.772E+08 3.624E+08 3.361E+08 3.138E+08 2.991E+08 2.886E+08 2.800E+08 2.703E+08
ADS ON SOIL 1.785E+09 1.777E+09 1.769E+09 1.750E+09 1.745E+09 1.744E+09 1.753E+09 1.758E+09 1.764E+09 1.771E+09 1.773E+09 1.774E+09
IN SOIL AIR 5.287E+08 5.133E+08 4.942E+08 4.468E+08 4.432E+08 4.530E+08 4.674E+08 4.824E+08 4.911E+08 4.941E+08 5.007E+08 5.096E+08

SUBLAYER 10

IN SOIL MOI 3.547E+08 3.895E+08 4.283E+08 5.121E+08 5.146E+08 4.955E+08 4.601E+08 4.297E+08 4.095E+08 3.952E+08 3.835E+08 3.703E+08
ADS ON SOIL 2.416E+09 2.407E+09 2.400E+09 2.381E+09 2.380E+09 2.384E+09 2.399E+09 2.408E+09 2.415E+09 2.426E+09 2.428E+09 2.430E+09
IN SOIL AIR 7.153E+08 6.954E+08 6.704E+08 6.080E+08 6.047E+08 6.194E+08 6.398E+08 6.605E+08 6.725E+08 6.766E+08 6.857E+08 6.981E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.817E+06 3.340E+07 3.565E+07 2.771E+07 1.459E+07 6.118E+06 2.252E+06 0.000E+00 0.000E+00 0.000E+00

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

UPPER SOIL ZONE:

SUBLAYER 1

MOISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.702E-01 2.681E-01 2.660E-01 2.622E-01 2.611E-01 2.606E-01 2.617E-01 2.626E-01 2.635E-01 2.646E-01 2.649E-01 2.649E-01
%SOLUBILITY 1.126E-01 1.117E-01 1.108E-01 1.093E-01 1.088E-01 1.086E-01 1.091E-01 1.094E-01 1.098E-01 1.102E-01 1.104E-01 1.104E-01
ADSORBED 9.148E-02 9.075E-02 9.004E-02 8.877E-02 8.840E-02 8.823E-02 8.860E-02 8.891E-02 8.919E-02 8.957E-02 8.966E-02 8.966E-02
SOIL AIR 1.960E-01 1.969E-01 1.973E-01 1.969E-01 1.958E-01 1.950E-01 1.921E-01 1.913E-01 1.903E-01 1.882E-01 1.883E-01 1.889E-01

OWER SOIL ZONE:

SUBLAYER 1

MOISTURE 2.162E-01 2.146E-01 2.130E-01 2.100E-01 2.091E-01 2.086E-01 2.095E-01 2.102E-01 2.108E-01 2.117E-01 2.119E-01 2.120E-01
%SOLUBILITY 9.010E-02 8.942E-02 8.875E-02 8.750E-02 8.711E-02 8.692E-02 8.728E-02 8.758E-02 8.785E-02 8.822E-02 8.831E-02 8.831E-02
ADSORBED 7.320E-02 7.265E-02 7.211E-02 7.109E-02 7.077E-02 7.062E-02 7.091E-02 7.115E-02 7.137E-02 7.168E-02 7.175E-02 7.175E-02
SOIL AIR 1.568E-01 1.576E-01 1.580E-01 1.577E-01 1.567E-01 1.561E-01 1.538E-01 1.531E-01 1.523E-01 1.506E-01 1.507E-01 1.512E-01

SUBLAYER 2

MOISTURE 2.724E-01 2.703E-01 2.683E-01 2.645E-01 2.633E-01 2.627E-01 2.638E-01 2.647E-01 2.655E-01 2.666E-01 2.669E-01 2.670E-01
%SOLUBILITY 1.135E-01 1.126E-01 1.118E-01 1.102E-01 1.097E-01 1.095E-01 1.099E-01 1.103E-01 1.106E-01 1.111E-01 1.112E-01 1.112E-01
ADSORBED 9.221E-02 9.152E-02 9.084E-02 8.955E-02 8.914E-02 8.894E-02 8.931E-02 8.961E-02 8.989E-02 9.027E-02 9.036E-02 9.037E-02
SOIL AIR 1.975E-01 1.986E-01 1.990E-01 1.987E-01 1.974E-01 1.966E-01 1.937E-01 1.928E-01 1.918E-01 1.897E-01 1.897E-01 1.904E-01

SUBLAYER 3

MOISTURE 3.523E-01 3.497E-01 3.472E-01 3.422E-01 3.406E-01 3.398E-01 3.412E-01 3.424E-01 3.434E-01 3.449E-01 3.452E-01 3.453E-01
%SOLUBILITY 1.468E-01 1.457E-01 1.447E-01 1.426E-01 1.419E-01 1.416E-01 1.422E-01 1.427E-01 1.431E-01 1.437E-01 1.438E-01 1.439E-01
ADSORBED 1.193E-01 1.184E-01 1.175E-01 1.158E-01 1.153E-01 1.150E-01 1.155E-01 1.159E-01 1.163E-01 1.168E-01 1.169E-01 1.169E-01
SOIL AIR 2.555E-01 2.568E-01 2.575E-01 2.570E-01 2.553E-01 2.543E-01 2.505E-01 2.494E-01 2.480E-01 2.453E-01 2.454E-01 2.463E-01

SUBLAYER 4

MOISTURE 4.712E-01 4.678E-01 4.644E-01 4.578E-01 4.556E-01 4.545E-01 4.564E-01 4.579E-01 4.593E-01 4.612E-01 4.617E-01 4.618E-01
%SOLUBILITY 1.963E-01 1.949E-01 1.935E-01 1.907E-01 1.898E-01 1.894E-01 1.901E-01 1.908E-01 1.914E-01 1.922E-01 1.924E-01 1.924E-01
ADSORBED 1.595E-01 1.583E-01 1.572E-01 1.550E-01 1.542E-01 1.539E-01 1.545E-01 1.550E-01 1.555E-01 1.561E-01 1.563E-01 1.563E-01
SOIL AIR 3.417E-01 3.435E-01 3.444E-01 3.438E-01 3.415E-01 3.401E-01 3.350E-01 3.335E-01 3.317E-01 3.280E-01 3.282E-01 3.293E-01

SUBLAYER 5

MOISTURE 6.577E-01 6.530E-01 6.484E-01 6.392E-01 6.360E-01 6.345E-01 6.370E-01 6.391E-01 6.411E-01 6.438E-01 6.445E-01 6.446E-01
%SOLUBILITY 2.740E-01 2.721E-01 2.702E-01 2.663E-01 2.650E-01 2.644E-01 2.654E-01 2.663E-01 2.671E-01 2.683E-01 2.685E-01 2.686E-01
ADSORBED 2.226E-01 2.211E-01 2.195E-01 2.164E-01 2.153E-01 2.148E-01 2.157E-01 2.164E-01 2.170E-01 2.179E-01 2.182E-01 2.182E-01
SOIL AIR 4.770E-01 4.796E-01 4.809E-01 4.800E-01 4.768E-01 4.748E-01 4.676E-01 4.655E-01 4.630E-01 4.579E-01 4.581E-01 4.597E-01

SUBLAYER 6

MOISTURE 9.688E-01 9.621E-01 9.556E-01 9.420E-01 9.373E-01 9.350E-01 9.387E-01 9.418E-01 9.446E-01 9.486E-01 9.496E-01 9.499E-01
%SOLUBILITY 4.037E-01 4.009E-01 3.982E-01 3.925E-01 3.905E-01 3.896E-01 3.911E-01 3.924E-01 3.936E-01 3.953E-01 3.957E-01 3.958E-01
ADSORBED 3.280E-01 3.257E-01 3.235E-01 3.189E-01 3.173E-01 3.165E-01 3.178E-01 3.188E-01 3.198E-01 3.211E-01 3.215E-01 3.215E-01
SOIL AIR 7.026E-01 7.066E-01 7.087E-01 7.074E-01 7.026E-01 6.996E-01 6.891E-01 6.859E-01 6.823E-01 6.747E-01 6.750E-01 6.775E-01

SUBLAYER 7

MOISTURE 1.519E+00 1.509E+00 1.500E+00 1.479E+00 1.471E+00 1.468E+00 1.474E+00 1.479E+00 1.483E+00 1.489E+00 1.491E+00 1.491E+00
%SOLUBILITY 6.330E-01 6.289E-01 6.249E-01 6.161E-01 6.131E-01 6.116E-01 6.141E-01 6.161E-01 6.179E-01 6.206E-01 6.212E-01 6.214E-01
ADSORBED 5.143E-01 5.110E-01 5.077E-01 5.006E-01 4.981E-01 4.969E-01 4.989E-01 5.005E-01 5.020E-01 5.042E-01 5.047E-01 5.048E-01
SOIL AIR 1.102E+00 1.109E+00 1.112E+00 1.111E+00 1.103E+00 1.098E+00 1.082E+00 1.077E+00 1.071E+00 1.059E+00 1.060E+00 1.064E+00

SUBLAYER 8

MOISTURE 2.488E+00 2.474E+00 2.460E+00 2.427E+00 2.417E+00 2.412E+00 2.423E+00 2.431E+00 2.438E+00 2.448E+00 2.451E+00 2.452E+00
%SOLUBILITY 1.037E+00 1.031E+00 1.025E+00 1.011E+00 1.007E+00 1.005E+00 1.010E+00 1.013E+00 1.016E+00 1.020E+00 1.021E+00 1.022E+00
ADSORBED 8.422E-01 8.374E-01 8.326E-01 8.218E-01 8.182E-01 8.166E-01 8.202E-01 8.229E-01 8.253E-01 8.289E-01 8.298E-01 8.301E-01
SOIL AIR 1.804E+00 1.817E+00 1.824E+00 1.823E+00 1.812E+00 1.805E+00 1.779E+00 1.770E+00 1.761E+00 1.742E+00 1.742E+00 1.749E+00

SUBLAYER 9

MOISTURE 3.951E+00 3.932E+00 3.914E+00 3.871E+00 3.860E+00 3.858E+00 3.878E+00 3.891E+00 3.903E+00 3.919E+00 3.924E+00 3.926E+00
%SOLUBILITY 1.646E+00 1.638E+00 1.631E+00 1.613E+00 1.608E+00 1.607E+00 1.616E+00 1.621E+00 1.626E+00 1.633E+00 1.635E+00 1.636E+00
ADSORBED 1.337E+00 1.331E+00 1.325E+00 1.311E+00 1.307E+00 1.306E+00 1.313E+00 1.317E+00 1.321E+00 1.327E+00 1.328E+00 1.329E+00
SOIL AIR 2.865E+00 2.888E+00 2.903E+00 2.907E+00 2.894E+00 2.887E+00 2.847E+00 2.834E+00 2.819E+00 2.788E+00 2.789E+00 2.800E+00

SUBLAYER 10

MOISTURE 5.345E+00 5.327E+00 5.310E+00 5.268E+00 5.266E+00 5.275E+00 5.308E+00 5.327E+00 5.344E+00 5.367E+00 5.374E+00 5.377E+00
%SOLUBILITY 2.227E+00 2.219E+00 2.213E+00 2.195E+00 2.194E+00 2.198E+00 2.212E+00 2.220E+00 2.227E+00 2.236E+00 2.239E+00 2.241E+00
ADSORBED 1.810E+00 1.803E+00 1.798E+00 1.783E+00 1.783E+00 1.786E+00 1.797E+00 1.803E+00 1.809E+00 1.817E+00 1.819E+00 1.820E+00
SOIL AIR 3.876E+00 3.912E+00 3.938E+00 3.956E+00 3.948E+00 3.947E+00 3.897E+00 3.880E+00 3.860E+00 3.817E+00 3.820E+00 3.835E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.099E-03 1.300E-02 1.386E-02 1.079E-02 5.686E-03 2.385E-03 8.780E-04 0.000E+00 0.000E+00 0.000E+00

1 YEAR - 120 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.225E+08
1 – AVERAGE POLLUTANT CONCENTRATIONS – NOTE: ONLY NON-ZERO VALUES ARE PRINTED –

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.642E-01
ADSORBED SOIL (UG/G) 8.944E-02
SOIL AIR (UG/ML) 1.931E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.115E-01
ADSORBED SOIL (UG/G) 7.159E-02
SOIL AIR (UG/ML) 1.545E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.664E-01
ADSORBED SOIL (UG/G) 9.017E-02
SOIL AIR (UG/ML) 1.946E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 3.445E-01
ADSORBED SOIL (UG/G) 1.166E-01
SOIL AIR (UG/ML) 2.518E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 4.608E-01
ADSORBED SOIL (UG/G) 1.560E-01
SOIL AIR (UG/ML) 3.367E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 6.432E-01
ADSORBED SOIL (UG/G) 2.178E-01
SOIL AIR (UG/ML) 4.701E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 9.478E-01
ADSORBED SOIL (UG/G) 3.209E-01
SOIL AIR (UG/ML) 6.927E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.488E+00
ADSORBED SOIL (UG/G) 5.036E-01
SOIL AIR (UG/ML) 1.087E+00

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.443E+00
ADSORBED SOIL (UG/G) 8.272E-01
SOIL AIR (UG/ML) 1.786E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.902E+00
ADSORBED SOIL (UG/G) 1.321E+00
SOIL AIR (UG/ML) 2.852E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.324E+00
ADSORBED SOIL (UG/G) 1.802E+00
SOIL AIR (UG/ML) 3.891E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.975E-03

YEAR - 128 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

-- 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

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IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01
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SOIL ZONE 2:

SUBLAYER 1

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IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01
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SOIL ZONE 3:

SUBLAYER 1

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IN SOIL MOI 9.240E+07 1.010E+08 1.105E+08 1.314E+08 1.315E+08 1.262E+08 1.169E+08 1.092E+08 1.041E+08 1.004E+08 9.740E+07 9.399E+07
ADS ON SOIL 6.294E+08 6.243E+08 6.194E+08 6.107E+08 6.082E+08 6.070E+08 6.095E+08 6.117E+08 6.136E+08 6.162E+08 6.168E+08 6.169E+08
IN SOIL AIR 1.864E+08 1.804E+08 1.730E+08 1.559E+08 1.545E+08 1.577E+08 1.626E+08 1.678E+08 1.709E+08 1.719E+08 1.742E+08 1.772E+08
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LOWER SOIL ZONE:

SUBLAYER 1

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IN SOIL MOI 1.195E+07 1.307E+07 1.431E+07 1.700E+07 1.701E+07 1.632E+07 1.512E+07 1.412E+07 1.346E+07 1.298E+07 1.260E+07 1.215E+07
ADS ON SOIL 8.139E+07 8.077E+07 8.017E+07 7.904E+07 7.868E+07 7.852E+07 7.884E+07 7.911E+07 7.936E+07 7.969E+07 7.977E+07 7.977E+07
IN SOIL AIR 2.410E+07 2.333E+07 2.240E+07 2.018E+07 1.999E+07 2.040E+07 2.103E+07 2.170E+07 2.210E+07 2.223E+07 2.252E+07 2.292E+07
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SUBLAYER 2

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IN SOIL MOI 1.505E+07 1.646E+07 1.802E+07 2.141E+07 2.143E+07 2.056E+07 1.904E+07 1.778E+07 1.695E+07 1.635E+07 1.586E+07 1.531E+07
ADS ON SOIL 1.025E+08 1.018E+08 1.010E+08 9.956E+07 9.911E+07 9.889E+07 9.929E+07 9.963E+07 9.994E+07 1.004E+08 1.005E+08 1.005E+08
IN SOIL AIR 3.036E+07 2.939E+07 2.821E+07 2.542E+07 2.518E+07 2.569E+07 2.648E+07 2.733E+07 2.783E+07 2.800E+07 2.836E+07 2.886E+07
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SUBLAYER 3

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IN SOIL MOI 1.947E+07 2.130E+07 2.332E+07 2.771E+07 2.772E+07 2.659E+07 2.463E+07 2.300E+07 2.192E+07 2.115E+07 2.052E+07 1.980E+07
ADS ON SOIL 1.326E+08 1.316E+08 1.307E+08 1.288E+08 1.282E+08 1.279E+08 1.284E+08 1.289E+08 1.293E+08 1.298E+08 1.299E+08 1.300E+08
IN SOIL AIR 3.927E+07 3.802E+07 3.650E+07 3.289E+07 3.257E+07 3.324E+07 3.426E+07 3.535E+07 3.599E+07 3.621E+07 3.669E+07 3.733E+07
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SUBLAYER 4

```
IN SOIL MOI 2.604E+07 2.849E+07 3.120E+07 3.706E+07 3.708E+07 3.557E+07 3.294E+07 3.076E+07 2.932E+07 2.828E+07 2.745E+07 2.648E+07
ADS ON SOIL 1.774E+08 1.761E+08 1.748E+08 1.723E+08 1.715E+08 1.711E+08 1.718E+08 1.724E+08 1.729E+08 1.736E+08 1.738E+08 1.738E+08
IN SOIL AIR 5.252E+07 5.087E+07 4.883E+07 4.400E+07 4.357E+07 4.446E+07 4.582E+07 4.728E+07 4.814E+07 4.843E+07 4.907E+07 4.993E+07
```

SUBLAYER 5

```
IN SOIL MOI 3.637E+07 3.979E+07 4.358E+07 5.177E+07 5.179E+07 4.967E+07 4.601E+07 4.295E+07 4.094E+07 3.950E+07 3.833E+07 3.699E+07
ADS ON SOIL 2.477E+08 2.459E+08 2.442E+08 2.407E+08 2.395E+08 2.389E+08 2.399E+08 2.407E+08 2.414E+08 2.424E+08 2.427E+08 2.427E+08
IN SOIL AIR 7.334E+07 7.104E+07 6.821E+07 6.147E+07 6.085E+07 6.209E+07 6.399E+07 6.603E+07 6.723E+07 6.764E+07 6.852E+07 6.973E+07
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SUBLAYER 6

SOIL MOI 5.371E+07 5.879E+07 6.440E+07 7.651E+07 7.651E+07 7.338E+07 6.797E+07 6.345E+07 6.048E+07 5.835E+07 5.662E+07 5.464E+07
ON SOIL 3.659E+08 3.633E+08 3.609E+08 3.557E+08 3.539E+08 3.530E+08 3.544E+08 3.556E+08 3.567E+08 3.582E+08 3.585E+08 3.586E+08
SOIL AIR 1.083E+08 1.050E+08 1.008E+08 9.083E+07 8.992E+07 9.173E+07 9.453E+07 9.755E+07 9.931E+07 9.992E+07 1.012E+08 1.030E+08

SUBLAYER 7

IN SOIL MOI 8.499E+07 9.305E+07 1.020E+08 1.212E+08 1.212E+08 1.162E+08 1.076E+08 1.005E+08 9.577E+07 9.240E+07 8.966E+07 8.653E+07
ADS ON SOIL 5.789E+08 5.751E+08 5.714E+08 5.633E+08 5.604E+08 5.590E+08 5.613E+08 5.631E+08 5.648E+08 5.672E+08 5.678E+08 5.679E+08
IN SOIL AIR 1.714E+08 1.661E+08 1.596E+08 1.438E+08 1.424E+08 1.453E+08 1.497E+08 1.545E+08 1.573E+08 1.582E+08 1.603E+08 1.631E+08

SUBLAYER 8

IN SOIL MOI 1.434E+08 1.571E+08 1.722E+08 2.048E+08 2.049E+08 1.966E+08 1.821E+08 1.700E+08 1.620E+08 1.563E+08 1.517E+08 1.464E+08
ADS ON SOIL 9.765E+08 9.708E+08 9.651E+08 9.521E+08 9.476E+08 9.456E+08 9.496E+08 9.526E+08 9.555E+08 9.596E+08 9.606E+08 9.610E+08
IN SOIL AIR 2.891E+08 2.804E+08 2.696E+08 2.431E+08 2.408E+08 2.457E+08 2.533E+08 2.613E+08 2.661E+08 2.677E+08 2.712E+08 2.760E+08

SUBLAYER 9

IN SOIL MOI 2.425E+08 2.659E+08 2.919E+08 3.477E+08 3.483E+08 3.345E+08 3.101E+08 2.895E+08 2.759E+08 2.662E+08 2.584E+08 2.494E+08
ADS ON SOIL 1.652E+09 1.644E+09 1.636E+09 1.617E+09 1.611E+09 1.609E+09 1.617E+09 1.622E+09 1.627E+09 1.634E+09 1.636E+09 1.637E+09
IN SOIL AIR 4.891E+08 4.748E+08 4.570E+08 4.128E+08 4.093E+08 4.182E+08 4.313E+08 4.451E+08 4.531E+08 4.559E+08 4.619E+08 4.702E+08

SUBLAYER 10

IN SOIL MOI 3.616E+08 3.970E+08 4.364E+08 5.213E+08 5.234E+08 5.037E+08 4.674E+08 4.365E+08 4.160E+08 4.014E+08 3.896E+08 3.761E+08
ADS ON SOIL 2.463E+09 2.454E+09 2.446E+09 2.424E+09 2.421E+09 2.423E+09 2.437E+09 2.446E+09 2.453E+09 2.464E+09 2.467E+09 2.469E+09
IN SOIL AIR 7.292E+08 7.088E+08 6.831E+08 6.190E+08 6.150E+08 6.296E+08 6.501E+08 6.710E+08 6.832E+08 6.874E+08 6.965E+08 7.091E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.871E+06 3.402E+07 3.627E+07 2.818E+07 1.483E+07 6.216E+06 2.287E+06 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.251E-01 2.233E-01 2.215E-01 2.184E-01 2.175E-01 2.171E-01 2.180E-01 2.187E-01 2.194E-01 2.204E-01 2.206E-01 2.206E-01
%SOLUBILITY 9.378E-02 9.303E-02 9.230E-02 9.099E-02 9.062E-02 9.044E-02 9.082E-02 9.114E-02 9.143E-02 9.181E-02 9.191E-02 9.191E-02
ADSORBED 7.619E-02 7.558E-02 7.499E-02 7.393E-02 7.362E-02 7.348E-02 7.379E-02 7.405E-02 7.428E-02 7.459E-02 7.467E-02 7.467E-02
SOIL AIR 1.632E-01 1.640E-01 1.643E-01 1.640E-01 1.630E-01 1.624E-01 1.600E-01 1.593E-01 1.585E-01 1.567E-01 1.568E-01 1.573E-01

LOWER SOIL ZONE:

SUBLAYER 1

STURE 1.801E-01 1.787E-01 1.774E-01 1.749E-01 1.741E-01 1.737E-01 1.745E-01 1.750E-01 1.756E-01 1.763E-01 1.765E-01 1.765E-01
OLUBILITY 7.504E-02 7.447E-02 7.392E-02 7.287E-02 7.254E-02 7.239E-02 7.269E-02 7.294E-02 7.316E-02 7.347E-02 7.354E-02 7.355E-02

ADSORBED 6.097E-02 6.050E-02 6.005E-02 5.920E-02 5.894E-02 5.881E-02 5.906E-02 5.926E-02 5.944E-02 5.969E-02 5.975E-02 5.975E-02
SOIL AIR 1.306E-01 1.313E-01 1.316E-01 1.313E-01 1.305E-01 1.300E-01 1.281E-01 1.275E-01 1.268E-01 1.254E-01 1.255E-01 1.259E-01

SUBLAYER 2

MOISTURE 2.269E-01 2.251E-01 2.235E-01 2.203E-01 2.193E-01 2.188E-01 2.197E-01 2.204E-01 2.211E-01 2.221E-01 2.223E-01 2.223E-01
%SOLUBILITY 9.452E-02 9.381E-02 9.312E-02 9.179E-02 9.137E-02 9.117E-02 9.154E-02 9.185E-02 9.214E-02 9.253E-02 9.262E-02 9.263E-02
ADSORBED 7.679E-02 7.622E-02 7.565E-02 7.458E-02 7.423E-02 7.407E-02 7.437E-02 7.462E-02 7.486E-02 7.517E-02 7.525E-02 7.526E-02
SOIL AIR 1.645E-01 1.654E-01 1.657E-01 1.654E-01 1.644E-01 1.637E-01 1.613E-01 1.606E-01 1.597E-01 1.579E-01 1.580E-01 1.586E-01

SUBLAYER 3

MOISTURE 2.934E-01 2.913E-01 2.891E-01 2.850E-01 2.837E-01 2.830E-01 2.842E-01 2.851E-01 2.860E-01 2.872E-01 2.875E-01 2.876E-01
%SOLUBILITY 1.223E-01 1.214E-01 1.205E-01 1.188E-01 1.182E-01 1.179E-01 1.184E-01 1.188E-01 1.192E-01 1.197E-01 1.198E-01 1.198E-01
ADSORBED 9.933E-02 9.860E-02 9.788E-02 9.648E-02 9.603E-02 9.581E-02 9.620E-02 9.652E-02 9.682E-02 9.723E-02 9.733E-02 9.735E-02
SOIL AIR 2.128E-01 2.139E-01 2.144E-01 2.140E-01 2.127E-01 2.118E-01 2.086E-01 2.077E-01 2.066E-01 2.043E-01 2.044E-01 2.051E-01

SUBLAYER 4

MOISTURE 3.925E-01 3.896E-01 3.868E-01 3.813E-01 3.795E-01 3.786E-01 3.801E-01 3.814E-01 3.825E-01 3.842E-01 3.846E-01 3.846E-01
%SOLUBILITY 1.635E-01 1.623E-01 1.612E-01 1.589E-01 1.581E-01 1.577E-01 1.584E-01 1.589E-01 1.594E-01 1.601E-01 1.602E-01 1.603E-01
ADSORBED 1.329E-01 1.319E-01 1.309E-01 1.291E-01 1.285E-01 1.282E-01 1.287E-01 1.291E-01 1.295E-01 1.300E-01 1.302E-01 1.302E-01
SOIL AIR 2.846E-01 2.862E-01 2.869E-01 2.863E-01 2.845E-01 2.833E-01 2.790E-01 2.778E-01 2.763E-01 2.732E-01 2.734E-01 2.743E-01

SUBLAYER 5

MOISTURE 5.481E-01 5.442E-01 5.403E-01 5.326E-01 5.300E-01 5.287E-01 5.308E-01 5.326E-01 5.342E-01 5.365E-01 5.370E-01 5.371E-01
%SOLUBILITY 2.284E-01 2.267E-01 2.251E-01 2.219E-01 2.208E-01 2.203E-01 2.212E-01 2.219E-01 2.226E-01 2.235E-01 2.238E-01 2.238E-01
ADSORBED 1.855E-01 1.842E-01 1.829E-01 1.803E-01 1.794E-01 1.790E-01 1.797E-01 1.803E-01 1.808E-01 1.816E-01 1.818E-01 1.818E-01
SOIL AIR 3.975E-01 3.997E-01 4.007E-01 4.000E-01 3.973E-01 3.956E-01 3.897E-01 3.879E-01 3.858E-01 3.816E-01 3.817E-01 3.831E-01

SUBLAYER 6

MOISTURE 8.095E-01 8.040E-01 7.985E-01 7.870E-01 7.831E-01 7.811E-01 7.843E-01 7.868E-01 7.892E-01 7.925E-01 7.934E-01 7.935E-01
%SOLUBILITY 3.373E-01 3.350E-01 3.327E-01 3.279E-01 3.263E-01 3.255E-01 3.268E-01 3.278E-01 3.288E-01 3.302E-01 3.306E-01 3.306E-01
ADSORBED 2.740E-01 2.722E-01 2.703E-01 2.664E-01 2.651E-01 2.644E-01 2.655E-01 2.663E-01 2.672E-01 2.683E-01 2.686E-01 2.686E-01
SOIL AIR 5.871E-01 5.905E-01 5.921E-01 5.911E-01 5.870E-01 5.845E-01 5.757E-01 5.730E-01 5.700E-01 5.637E-01 5.639E-01 5.660E-01

SUBLAYER 7

MOISTURE 1.281E+00 1.272E+00 1.264E+00 1.246E+00 1.240E+00 1.237E+00 1.242E+00 1.246E+00 1.250E+00 1.255E+00 1.256E+00 1.257E+00
%SOLUBILITY 5.337E-01 5.302E-01 5.268E-01 5.193E-01 5.167E-01 5.154E-01 5.175E-01 5.191E-01 5.207E-01 5.229E-01 5.234E-01 5.236E-01
ADSORBED 4.336E-01 4.308E-01 4.280E-01 4.219E-01 4.198E-01 4.187E-01 4.204E-01 4.218E-01 4.230E-01 4.248E-01 4.253E-01 4.254E-01
SOIL AIR 9.289E-01 9.346E-01 9.376E-01 9.360E-01 9.296E-01 9.256E-01 9.117E-01 9.074E-01 9.025E-01 8.926E-01 8.930E-01 8.962E-01

SUBLAYER 8

MOISTURE 2.161E+00 2.148E+00 2.135E+00 2.107E+00 2.097E+00 2.092E+00 2.101E+00 2.108E+00 2.114E+00 2.123E+00 2.126E+00 2.126E+00
%SOLUBILITY 9.003E-01 8.950E-01 8.898E-01 8.778E-01 8.737E-01 8.718E-01 8.755E-01 8.783E-01 8.809E-01 8.847E-01 8.856E-01 8.860E-01
ADSORBED 7.315E-01 7.271E-01 7.229E-01 7.132E-01 7.098E-01 7.083E-01 7.113E-01 7.136E-01 7.157E-01 7.188E-01 7.195E-01 7.198E-01
SOIL AIR 1.567E+00 1.578E+00 1.584E+00 1.582E+00 1.572E+00 1.566E+00 1.542E+00 1.535E+00 1.527E+00 1.510E+00 1.511E+00 1.517E+00

SUBLAYER 9

MOISTURE 3.655E+00 3.637E+00 3.620E+00 3.577E+00 3.565E+00 3.561E+00 3.578E+00 3.590E+00 3.601E+00 3.616E+00 3.620E+00 3.622E+00
%SOLUBILITY 1.523E+00 1.515E+00 1.508E+00 1.491E+00 1.485E+00 1.484E+00 1.491E+00 1.496E+00 1.500E+00 1.507E+00 1.508E+00 1.509E+00
ADSORBED 1.237E+00 1.231E+00 1.225E+00 1.211E+00 1.207E+00 1.205E+00 1.211E+00 1.215E+00 1.219E+00 1.224E+00 1.225E+00 1.226E+00
SOIL AIR 2.650E+00 2.671E+00 2.684E+00 2.687E+00 2.672E+00 2.665E+00 2.627E+00 2.615E+00 2.601E+00 2.572E+00 2.573E+00 2.583E+00

SUBLAYER 10

MOISTURE 5.449E+00 5.429E+00 5.411E+00 5.363E+00 5.356E+00 5.361E+00 5.393E+00 5.412E+00 5.429E+00 5.452E+00 5.458E+00 5.462E+00
%SOLUBILITY 2.270E+00 2.262E+00 2.255E+00 2.235E+00 2.232E+00 2.234E+00 2.247E+00 2.255E+00 2.262E+00 2.272E+00 2.274E+00 2.276E+00
ADSORBED 1.845E+00 1.838E+00 1.832E+00 1.816E+00 1.813E+00 1.815E+00 1.826E+00 1.832E+00 1.838E+00 1.846E+00 1.848E+00 1.849E+00
SOIL AIR 3.952E+00 3.987E+00 4.013E+00 4.028E+00 4.015E+00 4.012E+00 3.959E+00 3.942E+00 3.921E+00 3.878E+00 3.880E+00 3.896E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

R. CONC. 0.000E+00 0.000E+00 1.120E-03 1.324E-02 1.410E-02 1.096E-02 5.777E-03 2.423E-03 8.919E-04 0.000E+00 0.000E+00 0.000E+00

YEAR - 128 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

-- 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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.247E+08
1 – AVERAGE POLLUTANT CONCENTRATIONS – NOTE: ONLY NON-ZERO VALUES ARE PRINTED –

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.200E-01
ADSORBED SOIL (UG/G) 7.449E-02
SOIL AIR (UG/ML) 1.608E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.761E-01
ADSORBED SOIL (UG/G) 5.962E-02
SOIL AIR (UG/ML) 1.287E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.218E-01
ADSORBED SOIL (UG/G) 7.509E-02
SOIL AIR (UG/ML) 1.621E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.869E-01
ADSORBED SOIL (UG/G) 9.713E-02
SOIL AIR (UG/ML) 2.097E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 3.838E-01
ADSORBED SOIL (UG/G) 1.299E-01
SOIL AIR (UG/ML) 2.805E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.360E-01
ADSORBED SOIL (UG/G) 1.815E-01
SOIL AIR (UG/ML) 3.917E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 7.919E-01
ADSORBED SOIL (UG/G) 2.681E-01
SOIL AIR (UG/ML) 5.787E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.254E+00
ADSORBED SOIL (UG/G) 4.245E-01
SOIL AIR (UG/ML) 9.163E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.120E+00
ADSORBED SOIL (UG/G) 7.176E-01
SOIL AIR (UG/ML) 1.549E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.603E+00
ADSORBED SOIL (UG/G) 1.220E+00
SOIL AIR (UG/ML) 2.633E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.415E+00
ADSORBED SOIL (UG/G) 1.833E+00
SOIL AIR (UG/ML) 3.957E+00

MAX. POLL. DEPTH (M) 1.828E+01

/E. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 4.043E-03

YEAR - 130 MONTHLY RESULTS (OUTPUT)
======== ==========

– HYDROLOGIC CYCLE COMPONENTS –

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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
D 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
D 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

```
IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01
```

SOIL ZONE 2:

SUBLAYER 1

```
IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01
```

SOIL ZONE 3:

SUBLAYER 1

```
IN SOIL MOI 8.827E+07 9.650E+07 1.056E+08 1.255E+08 1.256E+08 1.205E+08 1.117E+08 1.043E+08 9.940E+07 9.589E+07 9.305E+07 8.978E+07
ADS ON SOIL 6.012E+08 5.964E+08 5.917E+08 5.834E+08 5.809E+08 5.798E+08 5.823E+08 5.843E+08 5.862E+08 5.886E+08 5.892E+08 5.893E+08
IN SOIL AIR 1.780E+08 1.723E+08 1.653E+08 1.490E+08 1.476E+08 1.507E+08 1.553E+08 1.603E+08 1.632E+08 1.642E+08 1.664E+08 1.693E+08
```

LOWER SOIL ZONE:

SUBLAYER 1

```
IN SOIL MOI 1.142E+07 1.248E+07 1.367E+07 1.624E+07 1.625E+07 1.559E+07 1.444E+07 1.349E+07 1.285E+07 1.240E+07 1.203E+07 1.161E+07
ADS ON SOIL 7.775E+07 7.716E+07 7.659E+07 7.550E+07 7.516E+07 7.500E+07 7.532E+07 7.557E+07 7.581E+07 7.613E+07 7.620E+07 7.621E+07
IN SOIL AIR 2.302E+07 2.229E+07 2.139E+07 1.928E+07 1.910E+07 1.949E+07 2.009E+07 2.073E+07 2.111E+07 2.124E+07 2.151E+07 2.189E+07
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SUBLAYER 2

```
IN SOIL MOI 1.438E+07 1.573E+07 1.722E+07 2.046E+07 2.047E+07 1.964E+07 1.819E+07 1.698E+07 1.619E+07 1.562E+07 1.515E+07 1.462E+07
ADS ON SOIL 9.794E+07 9.720E+07 9.648E+07 9.511E+07 9.467E+07 9.446E+07 9.485E+07 9.517E+07 9.547E+07 9.587E+07 9.597E+07 9.598E+07
IN SOIL AIR 2.900E+07 2.808E+07 2.695E+07 2.429E+07 2.405E+07 2.454E+07 2.530E+07 2.611E+07 2.658E+07 2.674E+07 2.710E+07 2.757E+07
```

SUBLAYER 3

```
IN SOIL MOI 1.860E+07 2.035E+07 2.228E+07 2.647E+07 2.648E+07 2.540E+07 2.353E+07 2.197E+07 2.094E+07 2.020E+07 1.960E+07 1.892E+07
ADS ON SOIL 1.267E+08 1.257E+08 1.248E+08 1.230E+08 1.225E+08 1.222E+08 1.227E+08 1.231E+08 1.235E+08 1.240E+08 1.241E+08 1.242E+08
IN SOIL AIR 3.751E+07 3.632E+07 3.487E+07 3.142E+07 3.112E+07 3.175E+07 3.272E+07 3.377E+07 3.439E+07 3.459E+07 3.505E+07 3.566E+07
```

SUBLAYER 4

```
IN SOIL MOI 2.488E+07 2.722E+07 2.980E+07 3.541E+07 3.542E+07 3.398E+07 3.147E+07 2.938E+07 2.801E+07 2.702E+07 2.622E+07 2.530E+07
ADS ON SOIL 1.694E+08 1.682E+08 1.670E+08 1.646E+08 1.638E+08 1.634E+08 1.641E+08 1.646E+08 1.652E+08 1.659E+08 1.660E+08 1.661E+08
IN SOIL AIR 5.017E+07 4.859E+07 4.665E+07 4.204E+07 4.162E+07 4.247E+07 4.377E+07 4.517E+07 4.599E+07 4.627E+07 4.688E+07 4.770E+07
```

SUBLAYER 5

```
IN SOIL MOI 3.474E+07 3.802E+07 4.163E+07 4.946E+07 4.947E+07 4.745E+07 4.396E+07 4.103E+07 3.911E+07 3.774E+07 3.662E+07 3.534E+07
ADS ON SOIL 2.366E+08 2.350E+08 2.333E+08 2.300E+08 2.288E+08 2.283E+08 2.292E+08 2.299E+08 2.307E+08 2.316E+08 2.319E+08 2.319E+08
IN SOIL AIR 7.007E+07 6.787E+07 6.517E+07 5.872E+07 5.814E+07 5.932E+07 6.113E+07 6.308E+07 6.423E+07 6.462E+07 6.547E+07 6.662E+07
```

SUBLAYER 6

```
IN SOIL MOI 5.134E+07 5.619E+07 6.155E+07 7.313E+07 7.313E+07 7.014E+07 6.497E+07 6.065E+07 5.781E+07 5.577E+07 5.412E+07 5.223E+07
ADS ON SOIL 3.497E+08 3.473E+08 3.449E+08 3.400E+08 3.383E+08 3.374E+08 3.388E+08 3.399E+08 3.409E+08 3.423E+08 3.427E+08 3.428E+08
IN SOIL AIR 1.035E+08 1.003E+08 9.635E+07 8.682E+07 8.594E+07 8.767E+07 9.036E+07 9.323E+07 9.492E+07 9.550E+07 9.676E+07 9.846E+07
```

SUBLAYER 7

OIL MOI 8.138E+07 8.910E+07 9.763E+07 1.160E+08 1.160E+08 1.113E+08 1.031E+08 9.620E+07 9.169E+07 8.846E+07 8.584E+07 8.284E+07
ADS ON SOIL 5.543E+08 5.506E+08 5.471E+08 5.393E+08 5.366E+08 5.352E+08 5.374E+08 5.391E+08 5.407E+08 5.430E+08 5.436E+08 5.437E+08
IN SOIL AIR 1.641E+08 1.591E+08 1.528E+08 1.377E+08 1.363E+08 1.391E+08 1.433E+08 1.479E+08 1.506E+08 1.515E+08 1.535E+08 1.562E+08

SUBLAYER 8

IN SOIL MOI 1.381E+08 1.513E+08 1.659E+08 1.973E+08 1.974E+08 1.894E+08 1.754E+08 1.638E+08 1.561E+08 1.506E+08 1.461E+08 1.410E+08
ADS ON SOIL 9.410E+08 9.354E+08 9.299E+08 9.173E+08 9.129E+08 9.109E+08 9.148E+08 9.176E+08 9.204E+08 9.243E+08 9.253E+08 9.256E+08
IN SOIL AIR 2.786E+08 2.702E+08 2.597E+08 2.342E+08 2.319E+08 2.367E+08 2.440E+08 2.517E+08 2.563E+08 2.579E+08 2.613E+08 2.659E+08

SUBLAYER 9

IN SOIL MOI 2.370E+08 2.600E+08 2.853E+08 3.398E+08 3.403E+08 3.269E+08 3.030E+08 2.829E+08 2.696E+08 2.601E+08 2.524E+08 2.437E+08
ADS ON SOIL 1.615E+09 1.607E+09 1.599E+09 1.580E+09 1.574E+09 1.572E+09 1.580E+09 1.585E+09 1.590E+09 1.597E+09 1.598E+09 1.599E+09
IN SOIL AIR 4.781E+08 4.641E+08 4.466E+08 4.035E+08 4.000E+08 4.086E+08 4.214E+08 4.348E+08 4.427E+08 4.454E+08 4.513E+08 4.594E+08

SUBLAYER 10

IN SOIL MOI 3.617E+08 3.972E+08 4.366E+08 5.214E+08 5.233E+08 5.036E+08 4.673E+08 4.363E+08 4.159E+08 4.013E+08 3.894E+08 3.760E+08
ADS ON SOIL 2.464E+09 2.455E+09 2.446E+09 2.424E+09 2.421E+09 2.422E+09 2.437E+09 2.445E+09 2.453E+09 2.463E+09 2.466E+09 2.468E+09
IN SOIL AIR 7.295E+08 7.091E+08 6.834E+08 6.190E+08 6.150E+08 6.294E+08 6.499E+08 6.708E+08 6.829E+08 6.871E+08 6.963E+08 7.089E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.872E+06 3.403E+07 3.628E+07 2.817E+07 1.483E+07 6.214E+06 2.286E+06 0.000E+00 0.000E+00 0.000E+00

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

UPPER SOIL ZONE:

SUBLAYER 1

...OISTURE 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 2.150E-01 2.133E-01 2.116E-01 2.086E-01 2.078E-01 2.073E-01 2.082E-01 2.089E-01 2.096E-01 2.105E-01 2.107E-01 2.107E-01
%SOLUBILITY 8.958E-02 8.887E-02 8.817E-02 8.692E-02 8.656E-02 8.639E-02 8.676E-02 8.706E-02 8.734E-02 8.771E-02 8.780E-02 8.780E-02
ADSORBED 7.278E-02 7.220E-02 7.163E-02 7.062E-02 7.033E-02 7.019E-02 7.049E-02 7.073E-02 7.096E-02 7.126E-02 7.133E-02 7.133E-02
SOIL AIR 1.559E-01 1.566E-01 1.569E-01 1.567E-01 1.557E-01 1.552E-01 1.529E-01 1.522E-01 1.514E-01 1.497E-01 1.498E-01 1.503E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.720E-01 1.707E-01 1.695E-01 1.671E-01 1.663E-01 1.660E-01 1.667E-01 1.672E-01 1.677E-01 1.684E-01 1.686E-01 1.686E-01
%SOLUBILITY 7.168E-02 7.114E-02 7.061E-02 6.961E-02 6.930E-02 6.915E-02 6.944E-02 6.967E-02 6.989E-02 7.018E-02 7.025E-02 7.026E-02
ADSORBED 5.824E-02 5.780E-02 5.737E-02 5.655E-02 5.630E-02 5.618E-02 5.641E-02 5.661E-02 5.678E-02 5.702E-02 5.708E-02 5.708E-02
SOIL AIR 1.248E-01 1.254E-01 1.257E-01 1.255E-01 1.247E-01 1.242E-01 1.223E-01 1.218E-01 1.211E-01 1.198E-01 1.199E-01 1.203E-01

SUBLAYER 2

MOISTURE 2.167E-01 2.151E-01 2.135E-01 2.104E-01 2.095E-01 2.090E-01 2.099E-01 2.106E-01 2.112E-01 2.121E-01 2.123E-01 2.124E-01
%SOLUBILITY 9.029E-02 8.961E-02 8.895E-02 8.769E-02 8.728E-02 8.709E-02 8.745E-02 8.774E-02 8.802E-02 8.839E-02 8.848E-02 8.849E-02
ADSORBED 7.336E-02 7.281E-02 7.227E-02 7.124E-02 7.091E-02 7.076E-02 7.105E-02 7.129E-02 7.151E-02 7.181E-02 7.188E-02 7.189E-02
SOIL AIR 1.571E-01 1.580E-01 1.583E-01 1.580E-01 1.570E-01 1.564E-01 1.541E-01 1.534E-01 1.526E-01 1.509E-01 1.509E-01 1.515E-01

SUBLAYER 3

MOISTURE 2.803E-01 2.782E-01 2.762E-01 2.723E-01 2.710E-01 2.704E-01 2.715E-01 2.724E-01 2.732E-01 2.744E-01 2.747E-01 2.747E-01
%SOLUBILITY 1.168E-01 1.159E-01 1.151E-01 1.134E-01 1.129E-01 1.127E-01 1.131E-01 1.135E-01 1.138E-01 1.143E-01 1.144E-01 1.145E-01
ADSORBED 9.489E-02 9.419E-02 9.350E-02 9.217E-02 9.174E-02 9.153E-02 9.190E-02 9.221E-02 9.250E-02 9.289E-02 9.298E-02 9.300E-02
SOIL AIR 2.033E-01 2.044E-01 2.048E-01 2.045E-01 2.031E-01 2.023E-01 1.993E-01 1.984E-01 1.973E-01 1.952E-01 1.952E-01 1.959E-01

SUBLAYER 4

MOISTURE 3.749E-01 3.722E-01 3.695E-01 3.642E-01 3.625E-01 3.616E-01 3.631E-01 3.643E-01 3.654E-01 3.670E-01 3.674E-01 3.674E-01
%SOLUBILITY 1.562E-01 1.551E-01 1.540E-01 1.518E-01 1.510E-01 1.507E-01 1.513E-01 1.518E-01 1.523E-01 1.529E-01 1.531E-01 1.531E-01
ADSORBED 1.269E-01 1.260E-01 1.251E-01 1.233E-01 1.227E-01 1.224E-01 1.229E-01 1.233E-01 1.237E-01 1.242E-01 1.244E-01 1.244E-01
SOIL AIR 2.719E-01 2.734E-01 2.740E-01 2.735E-01 2.717E-01 2.706E-01 2.666E-01 2.653E-01 2.639E-01 2.610E-01 2.611E-01 2.621E-01

SUBLAYER 5

MOISTURE 5.236E-01 5.199E-01 5.162E-01 5.088E-01 5.063E-01 5.051E-01 5.071E-01 5.088E-01 5.104E-01 5.125E-01 5.131E-01 5.132E-01
%SOLUBILITY 2.182E-01 2.166E-01 2.151E-01 2.120E-01 2.110E-01 2.105E-01 2.113E-01 2.120E-01 2.127E-01 2.136E-01 2.138E-01 2.138E-01
ADSORBED 1.773E-01 1.760E-01 1.748E-01 1.723E-01 1.714E-01 1.710E-01 1.717E-01 1.722E-01 1.728E-01 1.735E-01 1.737E-01 1.737E-01
SOIL AIR 3.797E-01 3.818E-01 3.828E-01 3.821E-01 3.796E-01 3.780E-01 3.723E-01 3.706E-01 3.686E-01 3.645E-01 3.647E-01 3.660E-01

SUBLAYER 6

MOISTURE 7.738E-01 7.684E-01 7.632E-01 7.523E-01 7.485E-01 7.466E-01 7.496E-01 7.520E-01 7.543E-01 7.575E-01 7.583E-01 7.585E-01
%SOLUBILITY 3.224E-01 3.202E-01 3.180E-01 3.134E-01 3.119E-01 3.111E-01 3.123E-01 3.133E-01 3.143E-01 3.156E-01 3.160E-01 3.160E-01
ADSORBED 2.619E-01 2.601E-01 2.584E-01 2.547E-01 2.534E-01 2.527E-01 2.538E-01 2.546E-01 2.553E-01 2.564E-01 2.567E-01 2.568E-01
SOIL AIR 5.611E-01 5.644E-01 5.660E-01 5.650E-01 5.611E-01 5.587E-01 5.503E-01 5.477E-01 5.448E-01 5.388E-01 5.390E-01 5.409E-01

SUBLAYER 7

MOISTURE 1.226E+00 1.218E+00 1.211E+00 1.193E+00 1.187E+00 1.184E+00 1.189E+00 1.193E+00 1.196E+00 1.201E+00 1.203E+00 1.203E+00
%SOLUBILITY 5.110E-01 5.077E-01 5.044E-01 4.972E-01 4.947E-01 4.935E-01 4.954E-01 4.970E-01 4.985E-01 5.006E-01 5.011E-01 5.013E-01
ADSORBED 4.152E-01 4.125E-01 4.098E-01 4.040E-01 4.019E-01 4.009E-01 4.025E-01 4.038E-01 4.050E-01 4.067E-01 4.072E-01 4.073E-01
SOIL AIR 8.894E-01 8.949E-01 8.977E-01 8.962E-01 8.900E-01 8.862E-01 8.729E-01 8.687E-01 8.641E-01 8.546E-01 8.549E-01 8.580E-01

SUBLAYER 8

MOISTURE 2.082E+00 2.070E+00 2.058E+00 2.030E+00 2.020E+00 2.016E+00 2.024E+00 2.030E+00 2.037E+00 2.045E+00 2.047E+00 2.048E+00
%SOLUBILITY 8.675E-01 8.624E-01 8.573E-01 8.457E-01 8.417E-01 8.398E-01 8.434E-01 8.460E-01 8.486E-01 8.522E-01 8.531E-01 8.534E-01
ADSORBED 7.048E-01 7.006E-01 6.965E-01 6.871E-01 6.838E-01 6.823E-01 6.852E-01 6.873E-01 6.894E-01 6.923E-01 6.931E-01 6.933E-01
SOIL AIR 1.510E+00 1.520E+00 1.526E+00 1.524E+00 1.514E+00 1.508E+00 1.486E+00 1.479E+00 1.471E+00 1.455E+00 1.455E+00 1.461E+00

SUBLAYER 9

MOISTURE 3.573E+00 3.555E+00 3.538E+00 3.496E+00 3.483E+00 3.479E+00 3.496E+00 3.507E+00 3.518E+00 3.533E+00 3.537E+00 3.539E+00
%SOLUBILITY 1.489E+00 1.481E+00 1.474E+00 1.457E+00 1.451E+00 1.450E+00 1.457E+00 1.461E+00 1.466E+00 1.472E+00 1.474E+00 1.474E+00
ADSORBED 1.209E+00 1.203E+00 1.198E+00 1.183E+00 1.179E+00 1.178E+00 1.183E+00 1.187E+00 1.191E+00 1.196E+00 1.197E+00 1.198E+00
SOIL AIR 2.591E+00 2.611E+00 2.624E+00 2.626E+00 2.611E+00 2.603E+00 2.566E+00 2.554E+00 2.541E+00 2.513E+00 2.514E+00 2.524E+00

SUBLAYER 10

MOISTURE 5.452E+00 5.431E+00 5.413E+00 5.364E+00 5.356E+00 5.360E+00 5.391E+00 5.410E+00 5.427E+00 5.450E+00 5.457E+00 5.460E+00
%SOLUBILITY 2.271E+00 2.263E+00 2.255E+00 2.235E+00 2.232E+00 2.233E+00 2.246E+00 2.254E+00 2.261E+00 2.271E+00 2.274E+00 2.275E+00
ADSORBED 1.845E+00 1.839E+00 1.832E+00 1.816E+00 1.813E+00 1.814E+00 1.825E+00 1.831E+00 1.837E+00 1.845E+00 1.847E+00 1.848E+00
SOIL AIR 3.953E+00 3.989E+00 4.014E+00 4.028E+00 4.015E+00 4.011E+00 3.958E+00 3.940E+00 3.919E+00 3.876E+00 3.879E+00 3.894E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

– POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) –

GWR. CONC. 0.000E+00 0.000E+00 1.121E-03 1.324E-02 1.410E-02 1.096E-02 5.775E-03 2.422E-03 8.916E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 130 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.247E+08

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 2.102E-01
ADSORBED SOIL (UG/G) 7.115E-02
SOIL AIR (UG/ML) 1.536E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.682E-01
ADSORBED SOIL (UG/G) 5.695E-02
SOIL AIR (UG/ML) 1.229E-01

SUBLAYER 2

SOIL MOISTURE (UG/ML) 2.119E-01
ADSORBED SOIL (UG/G) 7.173E-02
SOIL AIR (UG/ML) 1.549E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.741E-01
ADSORBED SOIL (UG/G) 9.279E-02
SOIL AIR (UG/ML) 2.003E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 3.666E-01
ADSORBED SOIL (UG/G) 1.241E-01
SOIL AIR (UG/ML) 2.679E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 5.121E-01
ADSORBED SOIL (UG/G) 1.734E-01
SOIL AIR (UG/ML) 3.742E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 7.569E-01
ADSORBED SOIL (UG/G) 2.562E-01

SOIL AIR (UG/ML) 5.531E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 1.200E+00
ADSORBED SOIL (UG/G) 4.064E-01
SOIL AIR (UG/ML) 8.773E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 2.042E+00
ADSORBED SOIL (UG/G) 6.913E-01
SOIL AIR (UG/ML) 1.492E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.521E+00
ADSORBED SOIL (UG/G) 1.192E+00
SOIL AIR (UG/ML) 2.573E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.414E+00
ADSORBED SOIL (UG/G) 1.833E+00
SOIL AIR (UG/ML) 3.957E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 4.042E-03

1

YEAR - 140 MONTHLY RESULTS (OUTPUT)
======== ==========

-- HYDROLOGIC CYCLE COMPONENTS --

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

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

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 7.021E+07 7.675E+07 8.399E+07 9.980E+07 9.990E+07 9.587E+07 8.882E+07 8.293E+07 7.906E+07 7.627E+07 7.401E+07 7.141E+07
ADS ON SOIL 4.782E+08 4.744E+08 4.707E+08 4.640E+08 4.621E+08 4.612E+08 4.631E+08 4.647E+08 4.662E+08 4.682E+08 4.687E+08 4.687E+08
IN SOIL AIR 1.416E+08 1.370E+08 1.315E+08 1.185E+08 1.174E+08 1.198E+08 1.235E+08 1.275E+08 1.298E+08 1.306E+08 1.323E+08 1.346E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 9.079E+06 9.930E+06 1.087E+07 1.292E+07 1.293E+07 1.240E+07 1.149E+07 1.073E+07 1.022E+07 9.864E+06 9.571E+06 9.235E+06
ADS ON SOIL 6.184E+07 6.137E+07 6.092E+07 6.005E+07 5.978E+07 5.966E+07 5.990E+07 6.011E+07 6.030E+07 6.055E+07 6.061E+07 6.061E+07
IN SOIL AIR 1.831E+07 1.773E+07 1.702E+07 1.534E+07 1.519E+07 1.550E+07 1.598E+07 1.649E+07 1.679E+07 1.689E+07 1.711E+07 1.741E+07

SUBLAYER 2

IN SOIL MOI 1.144E+07 1.251E+07 1.369E+07 1.627E+07 1.628E+07 1.562E+07 1.447E+07 1.351E+07 1.288E+07 1.242E+07 1.205E+07 1.163E+07
ADS ON SOIL 7.790E+07 7.731E+07 7.674E+07 7.565E+07 7.530E+07 7.513E+07 7.544E+07 7.569E+07 7.593E+07 7.625E+07 7.633E+07 7.634E+07
IN SOIL AIR 2.306E+07 2.233E+07 2.144E+07 1.932E+07 1.913E+07 1.952E+07 2.012E+07 2.077E+07 2.114E+07 2.127E+07 2.155E+07 2.193E+07

SUBLAYER 3

IN SOIL MOI 1.479E+07 1.618E+07 1.772E+07 2.105E+07 2.106E+07 2.020E+07 1.872E+07 1.747E+07 1.665E+07 1.607E+07 1.559E+07 1.505E+07
ADS ON SOIL 1.008E+08 1.000E+08 9.929E+07 9.787E+07 9.741E+07 9.719E+07 9.759E+07 9.791E+07 9.822E+07 9.863E+07 9.873E+07 9.875E+07
IN SOIL AIR 2.984E+07 2.889E+07 2.773E+07 2.499E+07 2.475E+07 2.525E+07 2.603E+07 2.686E+07 2.735E+07 2.751E+07 2.788E+07 2.837E+07

SUBLAYER 4

IN SOIL MOI 1.979E+07 2.165E+07 2.371E+07 2.817E+07 2.818E+07 2.703E+07 2.504E+07 2.337E+07 2.228E+07 2.149E+07 2.086E+07 2.013E+07
ADS ON SOIL 1.348E+08 1.338E+08 1.329E+08 1.310E+08 1.303E+08 1.300E+08 1.305E+08 1.310E+08 1.314E+08 1.319E+08 1.321E+08 1.321E+08
IN SOIL AIR 3.991E+07 3.866E+07 3.711E+07 3.344E+07 3.311E+07 3.378E+07 3.482E+07 3.593E+07 3.658E+07 3.681E+07 3.729E+07 3.794E+07

SUBLAYER 5

IN SOIL MOI 2.765E+07 3.025E+07 3.313E+07 3.936E+07 3.937E+07 3.776E+07 3.498E+07 3.265E+07 3.112E+07 3.003E+07 2.914E+07 2.812E+07
ADS ON SOIL 1.883E+08 1.870E+08 1.857E+08 1.830E+08 1.821E+08 1.817E+08 1.824E+08 1.830E+08 1.835E+08 1.843E+08 1.845E+08 1.846E+08
IN SOIL AIR 5.576E+07 5.401E+07 5.186E+07 4.673E+07 4.627E+07 4.720E+07 4.865E+07 5.020E+07 5.111E+07 5.142E+07 5.210E+07 5.301E+07

SUBLAYER 6

IN SOIL MOI 4.092E+07 4.479E+07 4.906E+07 5.828E+07 5.829E+07 5.590E+07 5.178E+07 4.834E+07 4.607E+07 4.445E+07 4.313E+07 4.162E+07
ADS ON SOIL 2.787E+08 2.768E+08 2.749E+08 2.710E+08 2.696E+08 2.689E+08 2.700E+08 2.709E+08 2.717E+08 2.728E+08 2.731E+08 2.732E+08
IN SOIL AIR 8.254E+07 7.996E+07 7.680E+07 6.920E+07 6.850E+07 6.988E+07 7.201E+07 7.431E+07 7.565E+07 7.611E+07 7.711E+07 7.847E+07

SUBLAYER 7

IN SOIL MOI 6.530E+07 7.150E+07 7.834E+07 9.307E+07 9.307E+07 8.926E+07 8.267E+07 7.717E+07 7.355E+07 7.096E+07 6.886E+07 6.646E+07
ADS ON SOIL 4.448E+08 4.419E+08 4.390E+08 4.327E+08 4.305E+08 4.294E+08 4.311E+08 4.324E+08 4.338E+08 4.356E+08 4.361E+08 4.362E+08
IN SOIL AIR 1.317E+08 1.276E+08 1.226E+08 1.105E+08 1.094E+08 1.116E+08 1.150E+08 1.186E+08 1.208E+08 1.215E+08 1.231E+08 1.253E+08

SUBLAYER 8

OIL MOI 1.137E+08 1.246E+08 1.366E+08 1.623E+08 1.623E+08 1.557E+08 1.442E+08 1.346E+08 1.283E+08 1.238E+08 1.201E+08 1.160E+08
ADS ON SOIL 7.746E+08 7.699E+08 7.653E+08 7.547E+08 7.509E+08 7.491E+08 7.522E+08 7.545E+08 7.568E+08 7.600E+08 7.608E+08 7.611E+08
IN SOIL AIR 2.294E+08 2.224E+08 2.138E+08 1.927E+08 1.908E+08 1.946E+08 2.006E+08 2.070E+08 2.107E+08 2.120E+08 2.148E+08 2.186E+08

SUBLAYER 9

IN SOIL MOI 2.081E+08 2.282E+08 2.504E+08 2.980E+08 2.983E+08 2.863E+08 2.654E+08 2.477E+08 2.361E+08 2.278E+08 2.210E+08 2.134E+08
ADS ON SOIL 1.418E+09 1.410E+09 1.403E+09 1.386E+09 1.380E+09 1.377E+09 1.384E+09 1.388E+09 1.392E+09 1.398E+09 1.400E+09 1.400E+09
IN SOIL AIR 4.197E+08 4.074E+08 3.920E+08 3.538E+08 3.505E+08 3.579E+08 3.691E+08 3.808E+08 3.877E+08 3.900E+08 3.952E+08 4.023E+08

SUBLAYER 10

IN SOIL MOI 3.544E+08 3.890E+08 4.275E+08 5.101E+08 5.116E+08 4.919E+08 4.563E+08 4.260E+08 4.060E+08 3.917E+08 3.802E+08 3.670E+08
ADS ON SOIL 2.414E+09 2.404E+09 2.396E+09 2.372E+09 2.366E+09 2.366E+09 2.379E+09 2.387E+09 2.394E+09 2.405E+09 2.407E+09 2.409E+09
IN SOIL AIR 7.147E+08 6.945E+08 6.692E+08 6.056E+08 6.011E+08 6.148E+08 6.345E+08 6.548E+08 6.667E+08 6.708E+08 6.797E+08 6.920E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.813E+06 3.331E+07 3.547E+07 2.753E+07 1.448E+07 6.066E+06 2.232E+06 0.000E+00 0.000E+00 0.000E+00

-- 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.710E-01 1.696E-01 1.683E-01 1.659E-01 1.652E-01 1.649E-01 1.656E-01 1.662E-01 1.667E-01 1.674E-01 1.676E-01 1.676E-01
%SOLUBILITY 7.125E-02 7.068E-02 7.013E-02 6.914E-02 6.885E-02 6.872E-02 6.901E-02 6.925E-02 6.947E-02 6.976E-02 6.983E-02 6.983E-02
ADSORBED 5.789E-02 5.743E-02 5.698E-02 5.617E-02 5.594E-02 5.583E-02 5.606E-02 5.626E-02 5.644E-02 5.668E-02 5.673E-02 5.674E-02
SOIL AIR 1.240E-01 1.246E-01 1.248E-01 1.246E-01 1.239E-01 1.234E-01 1.216E-01 1.210E-01 1.204E-01 1.191E-01 1.191E-01 1.195E-01

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.368E-01 1.358E-01 1.348E-01 1.329E-01 1.323E-01 1.320E-01 1.326E-01 1.330E-01 1.334E-01 1.340E-01 1.341E-01 1.341E-01
%SOLUBILITY 5.702E-02 5.658E-02 5.616E-02 5.537E-02 5.512E-02 5.500E-02 5.523E-02 5.542E-02 5.559E-02 5.582E-02 5.588E-02 5.588E-02
ADSORBED 4.632E-02 4.597E-02 4.563E-02 4.498E-02 4.478E-02 4.468E-02 4.487E-02 4.502E-02 4.516E-02 4.535E-02 4.540E-02 4.540E-02
SOIL AIR 9.923E-02 9.974E-02 9.996E-02 9.979E-02 9.917E-02 9.877E-02 9.730E-02 9.687E-02 9.636E-02 9.529E-02 9.533E-02 9.565E-02

SUBLAYER 2

MOISTURE 1.724E-01 1.711E-01 1.698E-01 1.674E-01 1.666E-01 1.662E-01 1.669E-01 1.675E-01 1.680E-01 1.687E-01 1.689E-01 1.689E-01
%SOLUBILITY 7.182E-02 7.128E-02 7.075E-02 6.974E-02 6.942E-02 6.927E-02 6.955E-02 6.979E-02 7.000E-02 7.030E-02 7.037E-02 7.038E-02
ADSORBED 5.835E-02 5.791E-02 5.748E-02 5.666E-02 5.640E-02 5.628E-02 5.651E-02 5.670E-02 5.688E-02 5.712E-02 5.717E-02 5.718E-02
SOIL AIR 1.250E-01 1.256E-01 1.259E-01 1.257E-01 1.249E-01 1.244E-01 1.225E-01 1.220E-01 1.213E-01 1.200E-01 1.201E-01 1.205E-01

SUBLAYER 3

MOISTURE 2.230E-01 2.213E-01 2.197E-01 2.166E-01 2.155E-01 2.151E-01 2.159E-01 2.167E-01 2.173E-01 2.182E-01 2.185E-01 2.185E-01
%SOLUBILITY 9.290E-02 9.221E-02 9.154E-02 9.023E-02 8.981E-02 8.960E-02 8.997E-02 9.027E-02 9.055E-02 9.093E-02 9.103E-02 9.104E-02
ADSORBED 7.548E-02 7.492E-02 7.437E-02 7.331E-02 7.297E-02 7.280E-02 7.310E-02 7.334E-02 7.357E-02 7.388E-02 7.396E-02 7.397E-02
SOIL AIR 1.617E-01 1.625E-01 1.629E-01 1.626E-01 1.616E-01 1.609E-01 1.585E-01 1.578E-01 1.570E-01 1.552E-01 1.553E-01 1.558E-01

SUBLAYER 4

MOISTURE 2.983E-01 2.961E-01 2.940E-01 2.898E-01 2.884E-01 2.877E-01 2.889E-01 2.898E-01 2.907E-01 2.919E-01 2.922E-01 2.923E-01
%SOLUBILITY 1.243E-01 1.234E-01 1.225E-01 1.207E-01 1.202E-01 1.199E-01 1.204E-01 1.208E-01 1.211E-01 1.216E-01 1.218E-01 1.218E-01
ADSORBED 1.010E-01 1.002E-01 9.951E-02 9.809E-02 9.762E-02 9.739E-02 9.779E-02 9.811E-02 9.841E-02 9.883E-02 9.893E-02 9.895E-02
SOIL AIR 2.163E-01 2.175E-01 2.180E-01 2.176E-01 2.162E-01 2.153E-01 2.120E-01 2.111E-01 2.100E-01 2.076E-01 2.077E-01 2.085E-01

SUBLAYER 5

MOISTURE 4.167E-01 4.137E-01 4.108E-01 4.049E-01 4.029E-01 4.020E-01 4.036E-01 4.049E-01 4.061E-01 4.079E-01 4.083E-01 4.084E-01
%SOLUBILITY 1.736E-01 1.724E-01 1.712E-01 1.687E-01 1.679E-01 1.675E-01 1.682E-01 1.687E-01 1.692E-01 1.699E-01 1.701E-01 1.701E-01
ADSORBED 1.411E-01 1.401E-01 1.391E-01 1.371E-01 1.364E-01 1.361E-01 1.366E-01 1.371E-01 1.375E-01 1.381E-01 1.382E-01 1.382E-01
SOIL AIR 3.022E-01 3.039E-01 3.047E-01 3.041E-01 3.021E-01 3.008E-01 2.963E-01 2.949E-01 2.933E-01 2.901E-01 2.902E-01 2.912E-01

SUBLAYER 6

MOISTURE 6.168E-01 6.125E-01 6.083E-01 5.996E-01 5.965E-01 5.950E-01 5.974E-01 5.993E-01 6.012E-01 6.037E-01 6.043E-01 6.045E-01
%SOLUBILITY 2.570E-01 2.552E-01 2.535E-01 2.498E-01 2.486E-01 2.479E-01 2.489E-01 2.497E-01 2.505E-01 2.515E-01 2.518E-01 2.519E-01
ADSORBED 2.088E-01 2.073E-01 2.059E-01 2.030E-01 2.019E-01 2.014E-01 2.022E-01 2.029E-01 2.035E-01 2.044E-01 2.046E-01 2.046E-01
SOIL AIR 4.473E-01 4.499E-01 4.511E-01 4.503E-01 4.472E-01 4.453E-01 4.385E-01 4.365E-01 4.342E-01 4.294E-01 4.296E-01 4.311E-01

SUBLAYER 7

MOISTURE 9.842E-01 9.777E-01 9.713E-01 9.575E-01 9.525E-01 9.501E-01 9.539E-01 9.569E-01 9.598E-01 9.638E-01 9.649E-01 9.651E-01
%SOLUBILITY 4.101E-01 4.074E-01 4.047E-01 3.990E-01 3.969E-01 3.959E-01 3.974E-01 3.987E-01 3.999E-01 4.016E-01 4.020E-01 4.021E-01
ADSORBED 3.332E-01 3.310E-01 3.288E-01 3.241E-01 3.224E-01 3.216E-01 3.229E-01 3.239E-01 3.249E-01 3.263E-01 3.266E-01 3.267E-01
SOIL AIR 7.137E-01 7.181E-01 7.203E-01 7.191E-01 7.141E-01 7.109E-01 7.002E-01 6.969E-01 6.932E-01 6.855E-01 6.858E-01 6.883E-01

SUBLAYER 8

MOISTURE 1.714E+00 1.704E+00 1.693E+00 1.670E+00 1.662E+00 1.658E+00 1.664E+00 1.669E+00 1.674E+00 1.682E+00 1.683E+00 1.684E+00
%SOLUBILITY 7.142E-01 7.099E-01 7.056E-01 6.958E-01 6.923E-01 6.906E-01 6.935E-01 6.956E-01 6.977E-01 7.007E-01 7.014E-01 7.017E-01
ADSORBED 5.802E-01 5.767E-01 5.733E-01 5.653E-01 5.625E-01 5.611E-01 5.634E-01 5.651E-01 5.668E-01 5.692E-01 5.699E-01 5.701E-01
SOIL AIR 1.243E+00 1.251E+00 1.256E+00 1.254E+00 1.246E+00 1.240E+00 1.222E+00 1.216E+00 1.209E+00 1.196E+00 1.197E+00 1.201E+00

SUBLAYER 9

MOISTURE 3.137E+00 3.120E+00 3.105E+00 3.066E+00 3.053E+00 3.048E+00 3.062E+00 3.071E+00 3.081E+00 3.094E+00 3.097E+00 3.099E+00
%SOLUBILITY 1.307E+00 1.300E+00 1.294E+00 1.277E+00 1.272E+00 1.270E+00 1.276E+00 1.280E+00 1.284E+00 1.289E+00 1.291E+00 1.291E+00
ADSORBED 1.062E+00 1.056E+00 1.051E+00 1.038E+00 1.033E+00 1.032E+00 1.036E+00 1.040E+00 1.043E+00 1.047E+00 1.048E+00 1.049E+00
SOIL AIR 2.275E+00 2.292E+00 2.303E+00 2.303E+00 2.289E+00 2.281E+00 2.248E+00 2.237E+00 2.225E+00 2.200E+00 2.202E+00 2.210E+00

SUBLAYER 10

MOISTURE 5.341E+00 5.320E+00 5.301E+00 5.248E+00 5.235E+00 5.236E+00 5.264E+00 5.282E+00 5.298E+00 5.320E+00 5.327E+00 5.330E+00
%SOLUBILITY 2.225E+00 2.217E+00 2.209E+00 2.187E+00 2.181E+00 2.181E+00 2.193E+00 2.201E+00 2.207E+00 2.217E+00 2.219E+00 2.221E+00
ADSORBED 1.808E+00 1.801E+00 1.794E+00 1.776E+00 1.772E+00 1.772E+00 1.782E+00 1.788E+00 1.793E+00 1.801E+00 1.803E+00 1.804E+00
SOIL AIR 3.873E+00 3.907E+00 3.931E+00 3.941E+00 3.925E+00 3.918E+00 3.864E+00 3.847E+00 3.826E+00 3.784E+00 3.786E+00 3.802E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

– POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) –

GWR. CONC. 0.000E+00 0.000E+00 1.097E-03 1.295E-02 1.378E-02 1.071E-02 5.639E-03 2.364E-03 8.704E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 140 ANNUAL SUMMARY REPORT
==========

– TOTAL INPUTS (UG) –

UPPER SOIL ZONE 0.000E+00

SOIL ZONE 2 0.000E+00
'. ZONE 3 0.000E+00
/ER SOIL ZONE 0.000E+00

-- HYDROLOGIC CYCLE COMPONENTS --

AVERAGE SOIL MOISTURE ZONE 1 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763

-- 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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.219E+08

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

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.672E-01
ADSORBED SOIL (UG/G) 5.659E-02
SOIL AIR (UG/ML) 1.222E-01

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.338E-01
ADSORBED SOIL (UG/G) 4.530E-02
SOIL AIR (UG/ML) 9.779E-02

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.685E-01
ADSORBED SOIL (UG/G) 5.705E-02
SOIL AIR (UG/ML) 1.232E-01

SUBLAYER 3

SOIL MOISTURE (UG/ML) 2.180E-01
ADSORBED SOIL (UG/G) 7.380E-02
SOIL AIR (UG/ML) 1.593E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.917E-01
ADSORBED SOIL (UG/G) 9.874E-02
SOIL AIR (UG/ML) 2.131E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 4.075E-01
ADSORBED SOIL (UG/G) 1.380E-01
SOIL AIR (UG/ML) 2.978E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 6.033E-01
ADSORBED SOIL (UG/G) 2.042E-01
SOIL AIR (UG/ML) 4.409E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 9.631E-01
ADSORBED SOIL (UG/G) 3.260E-01

SOIL AIR (UG/ML) 7.039E-01

SUBLAYER 8

SOIL MOISTURE (UG/ML) 1.680E+00
ADSORBED SOIL (UG/G) 5.686E-01
SOIL AIR (UG/ML) 1.228E+00

SUBLAYER 9

SOIL MOISTURE (UG/ML) 3.086E+00
ADSORBED SOIL (UG/G) 1.045E+00
SOIL AIR (UG/ML) 2.255E+00

SUBLAYER 10

SOIL MOISTURE (UG/ML) 5.292E+00
ADSORBED SOIL (UG/G) 1.791E+00
SOIL AIR (UG/ML) 3.867E+00

MAX. POLL. DEPTH (M) 1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML) 3.951E-03

YEAR - 150 MONTHLY RESULTS (OUTPUT)
======== ==========

- HYDROLOGIC CYCLE COMPONENTS –

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MOIS. IN L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
MOIS. BELOW L1 (%)	7.405	8.161	9.001	10.849	10.905	10.485	9.673	9.001	8.553	8.217	7.965	7.685
PRECIPATION (CM)	0.577	3.988	4.381	8.036	6.021	4.888	2.542	0.512	0.090	0.051	0.566	0.685
NET INFILT. (CM)	0.490	3.313	3.723	6.362	4.615	4.066	2.266	0.407	0.068	0.044	0.094	0.392
EVAPOTRANS. (CM)	1.064	2.241	2.405	3.094	4.046	4.331	3.306	1.349	0.720	0.570	0.535	0.913
MOIS. RETEN (CM)	-0.427	1.152	1.280	2.815	0.085	-0.640	-1.237	-1.024	-0.682	-0.512	-0.384	-0.427
SUR. RUNOFF (CM)	0.087	0.675	0.658	1.675	1.406	0.822	0.276	0.105	0.022	0.000	0.472	0.293
GRW. RUNOFF (CM)	-0.148	-0.080	0.038	0.453	0.483	0.375	0.196	0.082	0.030	-0.014	-0.057	-0.095
YIELD (CM)	-0.061	0.595	0.696	2.128	1.889	1.197	0.472	0.187	0.052	-0.007	0.415	0.199
PAU/MPA (GZU)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008
PA/MPA (GZ)	1.088	0.992	0.998	0.992	1.000	0.998	1.001	1.138	1.002	1.705	2.177	1.008

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

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

UPPER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 2.907E-01 3.204E-01 3.533E-01 4.259E-01 4.281E-01 4.116E-01 3.797E-01 3.533E-01 3.358E-01 3.226E-01 3.127E-01 3.017E-01
ADS ON SOIL 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00 1.980E+00
IN SOIL AIR 5.863E-01 5.720E-01 5.531E-01 5.056E-01 5.031E-01 5.145E-01 5.281E-01 5.432E-01 5.514E-01 5.524E-01 5.590E-01 5.688E-01

SOIL ZONE 2:

SUBLAYER 1

IN SOIL MOI 2.830E-01 3.119E-01 3.440E-01 4.147E-01 4.168E-01 4.007E-01 3.697E-01 3.440E-01 3.269E-01 3.141E-01 3.044E-01 2.937E-01
ADS ON SOIL 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00 1.928E+00
IN SOIL AIR 5.708E-01 5.569E-01 5.385E-01 4.923E-01 4.898E-01 5.009E-01 5.142E-01 5.289E-01 5.368E-01 5.378E-01 5.443E-01 5.538E-01

SOIL ZONE 3:

SUBLAYER 1

IN SOIL MOI 5.583E+07 6.103E+07 6.679E+07 7.936E+07 7.944E+07 7.623E+07 7.062E+07 6.595E+07 6.286E+07 6.065E+07 5.885E+07 5.678E+07
ADS ON SOIL 3.803E+08 3.772E+08 3.743E+08 3.690E+08 3.674E+08 3.667E+08 3.683E+08 3.695E+08 3.707E+08 3.723E+08 3.727E+08 3.727E+08
IN SOIL AIR 1.126E+08 1.090E+08 1.045E+08 9.422E+07 9.335E+07 9.529E+07 9.822E+07 1.014E+08 1.032E+08 1.039E+08 1.052E+08 1.071E+08

LOWER SOIL ZONE:

SUBLAYER 1

IN SOIL MOI 7.220E+06 7.896E+06 8.644E+06 1.027E+07 1.028E+07 9.861E+06 9.135E+06 8.529E+06 8.130E+06 7.844E+06 7.611E+06 7.343E+06
ADS ON SOIL 4.918E+07 4.880E+07 4.844E+07 4.775E+07 4.754E+07 4.744E+07 4.764E+07 4.780E+07 4.795E+07 4.815E+07 4.819E+07 4.820E+07
IN SOIL AIR 1.456E+07 1.410E+07 1.353E+07 1.219E+07 1.208E+07 1.233E+07 1.271E+07 1.311E+07 1.335E+07 1.343E+07 1.361E+07 1.384E+07

SUBLAYER 2

IN SOIL MOI 9.094E+06 9.947E+06 1.089E+07 1.294E+07 1.295E+07 1.242E+07 1.150E+07 1.074E+07 1.024E+07 9.878E+06 9.585E+06 9.249E+06
ADS ON SOIL 6.194E+07 6.148E+07 6.102E+07 6.015E+07 5.988E+07 5.974E+07 5.999E+07 6.019E+07 6.038E+07 6.063E+07 6.070E+07 6.070E+0
IN SOIL AIR 1.834E+07 1.776E+07 1.705E+07 1.536E+07 1.521E+07 1.552E+07 1.600E+07 1.651E+07 1.681E+07 1.691E+07 1.714E+07 1.744E+07

SUBLAYER 3

IN SOIL MOI 1.176E+07 1.287E+07 1.409E+07 1.674E+07 1.675E+07 1.607E+07 1.488E+07 1.389E+07 1.324E+07 1.278E+07 1.240E+07 1.196E+07
ADS ON SOIL 8.013E+07 7.953E+07 7.895E+07 7.783E+07 7.746E+07 7.728E+07 7.760E+07 7.786E+07 7.810E+07 7.843E+07 7.851E+07 7.852E+07
IN SOIL AIR 2.373E+07 2.298E+07 2.205E+07 1.987E+07 1.968E+07 2.008E+07 2.070E+07 2.136E+07 2.175E+07 2.188E+07 2.217E+07 2.256E+07

SUBLAYER 4

IN SOIL MOI 1.574E+07 1.722E+07 1.885E+07 2.240E+07 2.241E+07 2.149E+07 1.991E+07 1.859E+07 1.772E+07 1.709E+07 1.659E+07 1.601E+07
ADS ON SOIL 1.072E+08 1.064E+08 1.057E+08 1.041E+08 1.036E+08 1.034E+08 1.038E+08 1.042E+08 1.045E+08 1.049E+08 1.050E+08 1.050E+08
IN SOIL AIR 3.174E+07 3.074E+07 2.951E+07 2.659E+07 2.633E+07 2.687E+07 2.769E+07 2.857E+07 2.909E+07 2.927E+07 2.965E+07 3.017E+07

SUBLAYER 5

IN SOIL MOI 2.199E+07 2.407E+07 2.636E+07 3.131E+07 3.132E+07 3.004E+07 2.782E+07 2.598E+07 2.476E+07 2.389E+07 2.318E+07 2.237E+07
ADS ON SOIL 1.498E+08 1.487E+08 1.477E+08 1.456E+08 1.449E+08 1.445E+08 1.451E+08 1.456E+08 1.460E+08 1.466E+08 1.468E+08 1.468E+08
IN SOIL AIR 4.436E+07 4.297E+07 4.126E+07 3.717E+07 3.680E+07 3.755E+07 3.870E+07 3.993E+07 4.066E+07 4.090E+07 4.144E+07 4.217E+07

SUBLAYER 6

IN SOIL MOI 3.258E+07 3.566E+07 3.906E+07 4.641E+07 4.641E+07 4.451E+07 4.122E+07 3.848E+07 3.668E+07 3.539E+07 3.434E+07 3.314E+07
ADS ON SOIL 2.219E+08 2.204E+08 2.189E+08 2.157E+08 2.147E+08 2.141E+08 2.150E+08 2.156E+08 2.163E+08 2.172E+08 2.175E+08 2.175E+08
IN SOIL AIR 6.572E+07 6.367E+07 6.115E+07 5.509E+07 5.454E+07 5.563E+07 5.733E+07 5.916E+07 6.023E+07 6.060E+07 6.140E+07 6.248E+07

SUBLAYER 7

IN SOIL MOI 5.226E+07 5.721E+07 6.268E+07 7.447E+07 7.446E+07 7.140E+07 6.613E+07 6.173E+07 5.884E+07 5.677E+07 5.508E+07 5.316E+07
ADS ON SOIL 3.559E+08 3.536E+08 3.513E+08 3.462E+08 3.444E+08 3.435E+08 3.448E+08 3.459E+08 3.470E+08 3.485E+08 3.488E+08 3.489E+08
IN SOIL AIR 1.054E+08 1.021E+08 9.812E+07 8.841E+07 8.750E+07 8.925E+07 9.198E+07 9.490E+07 9.662E+07 9.721E+07 9.849E+07 1.002E+08

SUBLAYER 8

IN SOIL MOI 9.260E+07 1.014E+08 1.112E+08 1.321E+08 1.321E+08 1.267E+08 1.173E+08 1.095E+08 1.044E+08 1.007E+08 9.773E+07 9.433E+07
S ON SOIL 6.307E+08 6.268E+08 6.230E+08 6.143E+08 6.110E+08 6.095E+08 6.119E+08 6.138E+08 6.156E+08 6.182E+08 6.189E+08 6.191E+08
OIL AIR 1.867E+08 1.811E+08 1.740E+08 1.569E+08 1.552E+08 1.584E+08 1.632E+08 1.684E+08 1.714E+08 1.725E+08 1.747E+08 1.778E+08

SUBLAYER 9

IN SOIL MOI 1.786E+08 1.958E+08 2.148E+08 2.555E+08 2.556E+08 2.453E+08 2.273E+08 2.122E+08 2.022E+08 1.951E+08 1.893E+08 1.827E+08
ADS ON SOIL 1.216E+09 1.210E+09 1.204E+09 1.188E+09 1.182E+09 1.180E+09 1.185E+09 1.189E+09 1.192E+09 1.197E+09 1.199E+09 1.199E+09
IN SOIL AIR 3.601E+08 3.495E+08 3.362E+08 3.034E+08 3.004E+08 3.066E+08 3.161E+08 3.261E+08 3.320E+08 3.340E+08 3.385E+08 3.445E+08

SUBLAYER 10

IN SOIL MOI 3.359E+08 3.688E+08 4.052E+08 4.831E+08 4.841E+08 4.652E+08 4.314E+08 4.027E+08 3.838E+08 3.703E+08 3.594E+08 3.470E+08
ADS ON SOIL 2.288E+09 2.279E+09 2.270E+09 2.246E+09 2.239E+09 2.238E+09 2.249E+09 2.257E+09 2.263E+09 2.273E+09 2.276E+09 2.277E+09
IN SOIL AIR 6.775E+08 6.584E+08 6.342E+08 5.735E+08 5.689E+08 5.815E+08 5.999E+08 6.190E+08 6.302E+08 6.341E+08 6.425E+08 6.541E+08
GWR. RUNOFF 0.000E+00 0.000E+00 2.666E+06 3.155E+07 3.358E+07 2.604E+07 1.369E+07 5.735E+06 2.110E+06 0.000E+00 0.000E+00 0.000E+00

– 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 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10 4.000E-10
%SOLUBILITY 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10 1.667E-10
ADSORBED 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10 1.354E-10
SOIL AIR 2.901E-10 2.938E-10 2.966E-10 3.004E-10 2.999E-10 2.993E-10 2.936E-10 2.913E-10 2.889E-10 2.845E-10 2.843E-10 2.853E-10

SOIL ZONE 2:

SUBLAYER 1

MOISTURE 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09 3.000E-09
%SOLUBILITY 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09 1.250E-09
ADSORBED 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09 1.016E-09
SOIL AIR 2.176E-09 2.203E-09 2.225E-09 2.253E-09 2.249E-09 2.245E-09 2.202E-09 2.185E-09 2.167E-09 2.134E-09 2.132E-09 2.140E-09

SOIL ZONE 3:

SUBLAYER 1

MOISTURE 1.360E-01 1.349E-01 1.338E-01 1.319E-01 1.314E-01 1.311E-01 1.317E-01 1.322E-01 1.326E-01 1.331E-01 1.333E-01 1.333E-01
%SOLUBILITY 5.666E-02 5.621E-02 5.577E-02 5.498E-02 5.475E-02 5.464E-02 5.487E-02 5.506E-02 5.524E-02 5.547E-02 5.553E-02 5.553E-02
ADSORBED 4.603E-02 4.566E-02 4.531E-02 4.467E-02 4.448E-02 4.439E-02 4.458E-02 4.474E-02 4.488E-02 4.507E-02 4.511E-02 4.511E-02
SOIL AIR 9.861E-02 9.907E-02 9.925E-02 9.909E-02 9.850E-02 9.813E-02 9.667E-02 9.625E-02 9.575E-02 9.469E-02 9.473E-02 9.505E-02

LOWER SOIL ZONE:

SUBLAYER 1

MOISTURE 1.088E-01 1.080E-01 1.072E-01 1.057E-01 1.052E-01 1.050E-01 1.054E-01 1.058E-01 1.061E-01 1.065E-01 1.066E-01 1.066E-01
%SOLUBILITY 4.534E-02 4.499E-02 4.466E-02 4.403E-02 4.383E-02 4.374E-02 4.392E-02 4.407E-02 4.420E-02 4.439E-02 4.443E-02 4.444E-02
ADSORBED 3.684E-02 3.656E-02 3.628E-02 3.577E-02 3.561E-02 3.553E-02 3.568E-02 3.580E-02 3.591E-02 3.606E-02 3.610E-02 3.610E-02
SOIL AIR 7.891E-02 7.931E-02 7.949E-02 7.935E-02 7.886E-02 7.854E-02 7.737E-02 7.703E-02 7.662E-02 7.577E-02 7.580E-02 7.606E-02

SUBLAYER 2

MOISTURE 1.371E-01 1.360E-01 1.350E-01 1.331E-01 1.325E-01 1.322E-01 1.327E-01 1.332E-01 1.336E-01 1.342E-01 1.343E-01 1.343E-01
%SOLUBILITY 5.711E-02 5.668E-02 5.626E-02 5.546E-02 5.521E-02 5.508E-02 5.531E-02 5.549E-02 5.567E-02 5.590E-02 5.596E-02 5.597E-02
ADSORBED 4.640E-02 4.605E-02 4.571E-02 4.506E-02 4.485E-02 4.475E-02 4.494E-02 4.509E-02 4.523E-02 4.542E-02 4.546E-02 4.547E-02
SOIL AIR 9.939E-02 9.991E-02 1.001E-01 9.996E-02 9.932E-02 9.892E-02 9.744E-02 9.700E-02 9.649E-02 9.543E-02 9.546E-02 9.580E-02

SUBLAYER 3

STURE 1.773E-01 1.760E-01 1.747E-01 1.722E-01 1.714E-01 1.710E-01 1.717E-01 1.723E-01 1.728E-01 1.735E-01 1.737E-01 1.737E-01

%SOLUBILITY 7.387E-02 7.333E-02 7.279E-02 7.175E-02 7.142E-02 7.125E-02 7.155E-02 7.178E-02 7.201E-02 7.231E-02 7.238E-02 7.239E-02
ADSORBED 6.002E-02 5.957E-02 5.914E-02 5.829E-02 5.802E-02 5.789E-02 5.813E-02 5.832E-02 5.850E-02 5.875E-02 5.881E-02 5.882E-02
SOIL AIR 1.286E-01 1.293E-01 1.296E-01 1.293E-01 1.285E-01 1.280E-01 1.260E-01 1.255E-01 1.248E-01 1.234E-01 1.235E-01 1.239E-01

SUBLAYER 4

MOISTURE 2.372E-01 2.355E-01 2.338E-01 2.304E-01 2.293E-01 2.288E-01 2.297E-01 2.305E-01 2.312E-01 2.322E-01 2.324E-01 2.324E-01
%SOLUBILITY 9.883E-02 9.811E-02 9.740E-02 9.601E-02 9.555E-02 9.533E-02 9.571E-02 9.603E-02 9.633E-02 9.673E-02 9.683E-02 9.685E-02
ADSORBED 8.030E-02 7.971E-02 7.914E-02 7.800E-02 7.763E-02 7.745E-02 7.776E-02 7.802E-02 7.826E-02 7.859E-02 7.867E-02 7.868E-02
SOIL AIR 1.720E-01 1.729E-01 1.734E-01 1.730E-01 1.719E-01 1.712E-01 1.686E-01 1.679E-01 1.670E-01 1.651E-01 1.652E-01 1.658E-01

SUBLAYER 5

MOISTURE 3.315E-01 3.291E-01 3.268E-01 3.221E-01 3.205E-01 3.197E-01 3.210E-01 3.221E-01 3.231E-01 3.244E-01 3.248E-01 3.248E-01
%SOLUBILITY 1.381E-01 1.371E-01 1.362E-01 1.342E-01 1.336E-01 1.332E-01 1.338E-01 1.342E-01 1.346E-01 1.352E-01 1.353E-01 1.353E-01
ADSORBED 1.122E-01 1.114E-01 1.106E-01 1.090E-01 1.085E-01 1.082E-01 1.087E-01 1.090E-01 1.094E-01 1.098E-01 1.099E-01 1.100E-01
SOIL AIR 2.404E-01 2.417E-01 2.424E-01 2.419E-01 2.403E-01 2.393E-01 2.357E-01 2.346E-01 2.333E-01 2.308E-01 2.309E-01 2.317E-01

SUBLAYER 6

MOISTURE 4.911E-01 4.877E-01 4.843E-01 4.774E-01 4.750E-01 4.737E-01 4.756E-01 4.772E-01 4.786E-01 4.806E-01 4.812E-01 4.813E-01
%SOLUBILITY 2.046E-01 2.032E-01 2.018E-01 1.989E-01 1.979E-01 1.974E-01 1.982E-01 1.988E-01 1.994E-01 2.003E-01 2.005E-01 2.005E-01
ADSORBED 1.662E-01 1.651E-01 1.640E-01 1.616E-01 1.608E-01 1.604E-01 1.610E-01 1.615E-01 1.620E-01 1.627E-01 1.629E-01 1.629E-01
SOIL AIR 3.561E-01 3.582E-01 3.592E-01 3.585E-01 3.560E-01 3.545E-01 3.492E-01 3.475E-01 3.457E-01 3.419E-01 3.420E-01 3.432E-01

SUBLAYER 7

MOISTURE 7.876E-01 7.824E-01 7.772E-01 7.661E-01 7.620E-01 7.600E-01 7.630E-01 7.654E-01 7.678E-01 7.710E-01 7.718E-01 7.720E-01
%SOLUBILITY 3.282E-01 3.260E-01 3.238E-01 3.192E-01 3.175E-01 3.167E-01 3.179E-01 3.189E-01 3.199E-01 3.213E-01 3.216E-01 3.217E-01
ADSORBED 2.666E-01 2.648E-01 2.631E-01 2.593E-01 2.580E-01 2.573E-01 2.583E-01 2.591E-01 2.599E-01 2.610E-01 2.613E-01 2.614E-01
SOIL AIR 5.711E-01 5.746E-01 5.764E-01 5.753E-01 5.713E-01 5.687E-01 5.601E-01 5.575E-01 5.545E-01 5.484E-01 5.486E-01 5.506E-01

SUBLAYER 8

MOISTURE 1.396E+00 1.387E+00 1.379E+00 1.359E+00 1.352E+00 1.349E+00 1.354E+00 1.358E+00 1.362E+00 1.368E+00 1.369E+00 1.370E+00
%SOLUBILITY 5.815E-01 5.779E-01 5.744E-01 5.663E-01 5.633E-01 5.619E-01 5.641E-01 5.659E-01 5.676E-01 5.700E-01 5.706E-01 5.708E-01
ADSORBED 4.724E-01 4.695E-01 4.667E-01 4.601E-01 4.577E-01 4.565E-01 4.583E-01 4.597E-01 4.611E-01 4.631E-01 4.636E-01 4.637E-01
SOIL AIR 1.012E+00 1.019E+00 1.022E+00 1.021E+00 1.014E+00 1.009E+00 9.939E-01 9.891E-01 9.838E-01 9.730E-01 9.734E-01 9.770E-01

SUBLAYER 9

MOISTURE 2.691E+00 2.677E+00 2.663E+00 2.629E+00 2.616E+00 2.611E+00 2.622E+00 2.631E+00 2.638E+00 2.650E+00 2.653E+00 2.654E+00
%SOLUBILITY 1.121E+00 1.115E+00 1.110E+00 1.095E+00 1.090E+00 1.088E+00 1.093E+00 1.096E+00 1.099E+00 1.104E+00 1.105E+00 1.106E+00
ADSORBED 9.111E-01 9.063E-01 9.016E-01 8.898E-01 8.857E-01 8.839E-01 8.877E-01 8.905E-01 8.931E-01 8.969E-01 8.979E-01 8.983E-01
SOIL AIR 1.952E+00 1.966E+00 1.975E+00 1.974E+00 1.961E+00 1.954E+00 1.925E+00 1.916E+00 1.905E+00 1.885E+00 1.885E+00 1.893E+00

SUBLAYER 10

MOISTURE 5.063E+00 5.043E+00 5.024E+00 4.969E+00 4.954E+00 4.951E+00 4.977E+00 4.993E+00 5.008E+00 5.029E+00 5.035E+00 5.039E+00
%SOLUBILITY 2.110E+00 2.101E+00 2.093E+00 2.071E+00 2.064E+00 2.063E+00 2.074E+00 2.080E+00 2.087E+00 2.096E+00 2.098E+00 2.099E+00
ADSORBED 1.714E+00 1.707E+00 1.701E+00 1.682E+00 1.677E+00 1.676E+00 1.685E+00 1.690E+00 1.695E+00 1.703E+00 1.705E+00 1.706E+00
SOIL AIR 3.672E+00 3.704E+00 3.725E+00 3.732E+00 3.714E+00 3.705E+00 3.653E+00 3.636E+00 3.617E+00 3.577E+00 3.579E+00 3.594E+00

POL DEP CM 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03 1.828E+03

-- POLLUTANT CONCENTRATION IN GROUNDWATER (UG/ML) --

GWR. CONC. 0.000E+00 0.000E+00 1.040E-03 1.226E-02 1.304E-02 1.013E-02 5.331E-03 2.235E-03 8.228E-04 0.000E+00 0.000E+00 0.000E+00
1 YEAR - 150 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 (%) 8.992
AVERAGE SOIL MOISTURE BELOW ZONE 1 (%) 8.992
TOTAL PRECIPITATION (CM) 32.338
TOTAL INFILTRATION (CM) 25.841
TOTAL EVAPOTRANSPIRATION (CM) 24.575
TOTAL SURFACE RUNOFF (CM) 6.491
TOTAL GRW RUNOFF (CM) 1.265
TOTAL MOISTURE RETENTION (CM) 0.001
TOTAL YIELD (CM) 7.763
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

SOIL ZONE 2:

SUBLAYER 1

SOIL ZONE 3:

SUBLAYER 1

LOWER SOIL ZONE:

SUBLAYER 1

SUBLAYER 2

SUBLAYER 3

SUBLAYER 4

SUBLAYER 5

SUBLAYER 6

SUBLAYER 7

SUBLAYER 8

SUBLAYER 9

SUBLAYER 10

TOTAL IN GROUNDWATER RUNOFF 1.154E+08
-- AVERAGE POLLUTANT CONCENTRATIONS -- NOTE: ONLY NON-ZERO VALUES ARE PRINTED --

UPPER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 4.000E-10
ADSORBED SOIL (UG/G) 1.354E-10
SOIL AIR (UG/ML) 2.923E-10

SOIL ZONE 2:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 3.000E-09
ADSORBED SOIL (UG/G) 1.016E-09
SOIL AIR (UG/ML) 2.193E-09

SOIL ZONE 3:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.329E-01
ADSORBED SOIL (UG/G) 4.500E-02
SOIL AIR (UG/ML) 9.715E-02

LOWER SOIL ZONE:

SUBLAYER 1

SOIL MOISTURE (UG/ML) 1.064E-01
ADSORBED SOIL (UG/G) 3.602E-02
SOIL AIR (UG/ML) 7.776E-02

SUBLAYER 2

SOIL MOISTURE (UG/ML) 1.340E-01
ADSORBED SOIL (UG/G) 4.537E-02
SOIL AIR (UG/ML) 9.794E-02

SUBLAYER 3

SOIL MOISTURE (UG/ML) 1.734E-01
ADSORBED SOIL (UG/G) 5.869E-02
SOIL AIR (UG/ML) 1.267E-01

SUBLAYER 4

SOIL MOISTURE (UG/ML) 2.319E-01
ADSORBED SOIL (UG/G) 7.852E-02
SOIL AIR (UG/ML) 1.695E-01

SUBLAYER 5

SOIL MOISTURE (UG/ML) 3.242E-01
ADSORBED SOIL (UG/G) 1.097E-01
SOIL AIR (UG/ML) 2.369E-01

SUBLAYER 6

SOIL MOISTURE (UG/ML) 4.803E-01
ADSORBED SOIL (UG/G) 1.626E-01
SOIL AIR (UG/ML) 3.510E-01

SUBLAYER 7

SOIL MOISTURE (UG/ML) 7.705E-01
ADSORBED SOIL (UG/G) 2.608E-01
SOIL AIR (UG/ML) 5.631E-01

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SUBLAYER 8

          SOIL MOISTURE (UG/ML)  1.367E+00
          ADSORBED SOIL (UG/G)   4.627E-01
          SOIL AIR (UG/ML)       9.989E-01

SUBLAYER 9

          SOIL MOISTURE (UG/ML)  2.645E+00
          ADSORBED SOIL (UG/G)   8.952E-01
          SOIL AIR (UG/ML)       1.933E+00

SUBLAYER 10

          SOIL MOISTURE (UG/ML)  5.007E+00
          ADSORBED SOIL (UG/G)   1.695E+00
          SOIL AIR (UG/ML)       3.659E+00

          MAX. POLL. DEPTH (M)   1.828E+01

AVE. CONTAMINANT CONCENTRATION IN GROUNDWATER (UG/ML)  3.738E-03

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