2831-SCU-023
0044240

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

NARRATIVE

DATE: March 10, 1992
REFERENCE NO.: 32359-14, SDG 2831

VOLATILES

Samples were analysed by the CLP VOA procedures. No dilutions or reanalyses were required. Samples had trace levels of MeCl2, acetone and MEK. Samples BC139MS and MSD had elevated levels of acetone and MEK.

Surrogate, MS/MSD and LCS recoveries were acceptable. IS2 and IS3 problems were found in samples BC139 and BC139MSD. They were slightly outside the 50% window, however they were not rerun. Calibration QC was acceptable.

SEMIVOLATILES

Samples were analyzed by the CLP SVOA procedures. No dilutions or reanalysis were required. The samples were clean.

Surrogate, MS/MSD and LCS recoveries were good with the exception of 2,4-Dinitrotoluene which was at 95% in the MS and MSD. Calibrations were acceptable.

PESTICIDES

Organochlorine pesticides/PCBs were analysed by the EPA CLP procedures. Several samples were rerun due to retention time shifts. Samples had a few peaks but no confirmed hits. Sample 2831-4 had several peaks but did not match any PCBs.

Surrogates were not recovered in sample 2831-2. This may be due to a missed spike. MS/MSD and LCS recoveries were acceptable. Aldrin and gamma BHC were slightly (0.01 min) out of RTW in PEM05. Samples were checked for similar effects and no problems were found. All other calibration QC was good.

JUN 1996
RECEIVED
EDMC

1b

Telephone (619) 453-0060 - FAX (619) 755-0[illegible] Division Office

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-1095
P.O. Box 1620, La Jolla, CA 92038-1620

TRACE METALS

Metals were analysed by the EPA CLP methods for the TAL list and by SW-846 methods for Mo, Ti and Zr. Some samples had elevated levels of Al and Fe. Samples were diluted 1:2 to meet CLP final volume levels.

MS, Rep and LCS recoveries were within limits. No solid LCS was available for Zr and Ti. The aqueous LCS was digested by the soil method for Zr and Ti. Calibration and supporting QC was acceptable.

The equation for calculating results for ICP and GFAA is provided below:

$$\text{Final Concentration in mg/Kg} = \frac{A \times B \times C}{D \times E}$$

A = Raw data (mg/L)
B = Dilution factor
C = Final volume (L)
D = Sample weight (Kg)
E = Percent solids in decimal form

SILICA

The samples were analysed according to Method 370.1 with a 1:5 DI Leach for dissolved silica. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

AMMONIA

The samples were analysed according to Method 350.3 with a 1:5 DI Leach. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

1c

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

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S-CUBED Division

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P.O. Box 1620, La Jolla, CA 92038-1620

ALKALINITY

The samples were analysed according to Method 310.1 with a 1:5 DI Leach. There were no difficulties with the analysis. There were signifigant levels detected in the samples.

The quality control results were acceptable.

ANIONS

The samples were analysed according to Method 300.0 with a 1:5 DI Leach. There were no difficulties with the analysis. There were low levels detected in the samples.

The quality control results were acceptable.

TOC

TOC was analysed using the furnace modification to Method 9060. Samples were diluted 1:10 and moderate levels of organic carbon were present.

The quality control results were acceptable.

John DeWald
Manager, Commercial Analysis Section

1d

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

SAMPLE SUMMARY

S-Cubed Reference No.32359-14, SDG No. 2831 , Project Name: WHC

Sample ID	S-Cubed Number	Date Received	Sample Type	Analysis										
				A	B	C	D	E	F	G	H	I	J	K
B0136	2831-1	2/29/92	SOIL	1	0	0	0	0	0	0	0	0	0	0
B0137	2831-2	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0138	2831-3	2/29/92	SOIL	1	0	0	0	0	0	0	0	0	0	0
B0139	2831-4	2/29/92	SOIL	3	3	1	3	3	3	3	3	3	3	3
B0140	2831-5	2/29/92	SOIL	1	1	3	1	1	1	1	1	1	1	1
B0141	2831-6	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0142	2831-7	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0143	2831-8	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0144	2831-9	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0145	2831-10	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0146	2831-11	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0147	2831-12	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0148	2831-13	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0149	2831-14	2/29/92	SOIL	1	1	1	1	0	0	0	0	0	0	0
B0150	2831-15	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0153	2831-16	2/29/92	SOIL	0	0	0	0	1	1	1	1	1	1	1

ANALYSIS KEY:

A=VOAOLM	F=FURNCLP	K=SiO4
B=SVOAOLM	G=HGCLP	L=Zr
C=OCPOLM	H=ANIONS	M=Mo
D=TOC	I=ALK	N=Ti
E=ICPCLP	J=N-NH3	

1F

S3 Lot #2831 1/3

Westinghouse Hanford Company

CHAIN OF CUSTODY

Priority Samples Project 92-155

Custody Form Initiator C. D. Kramer

Company Contact Chris Kramer Telephone (509) 376-4186

Project Designation/Sampling Locations Site-wide Soil Background - Organic Sampling Sites Collection Date 2/27/92

Ice Chest No. 7 Field Logbook No. WHC-N-438

Bill of Lading/Airbill No. 250 986 568 8 Offsite Property No. W92-0-0123 #58

Method of Shipment Emery

Shipped to S-Cubed, San Diego, CA

Possible Sample Hazards/Remarks None

Sample Identification

B06136 (1) 120-ml jar
B06137 (1) 120-ml, (2) 250-ml
B06138 (1) 120-ml jar
B06139 (1) 120-ml, (2) 250-ml
B06140
B06141
B06142

☐ Field Transfer of Custody

CHAIN OF POSSESSION (Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
C. D. Kramer C. D. Kramer	JR 12:30PM [illegible] 2/29/92	2/29/92 12:30 PM
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

19

A-6000-407 (12/90)

53 Lot # 2831 2/3

Westinghouse Hanford Company

CHAIN OF CUSTODY

Priority Samples Project 92-155

Custody Form Initiator C. D. Kramer

Company Contact Chris Kramer Telephone (509) 376-4186

Project Designation/Sampling Locations Site-wide Soil Background Collection Date 2/27/92

-Organic Sampling Sites

Ice Chest No. RM 42 Field Logbook No. WHC-N-438

Bill of Lading/Airbill No. 250 986 5688 Offsite Property No. W92-0-0123 #58

Method of Shipment Emery

Shipped to S-Cubed, San Diego, CA

Possible Sample Hazards/Remarks None

Sample Identification

B06143 (1) 120-ml, (2) 250-ml
B06144
B06145
B06146
B06147
B06148
B06149 (2) 250-ml
B06150 (1) 120-ml, (2) 250-ml
*

☐ Field Transfer of Custody

CHAIN OF POSSESSION

(Sign and Print Names)

Relinquished by:	Received by:	Date/Time:
C. D. Kramer C. D. Kramer	[illegible]	2/29/92 12:30 PM
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: 1h

A-6000-407 (12/90)

S³ Lot # 2831

3/3

Westinghouse Hanford Company	CHAIN OF CUSTODY Priority Sample	Project 92-155

Custody Form Initiator S.W. Petersen

Company Contact S.W. Petersen Telephone 6-1273

Project Designation/Sampling Locations Site-wide Soil Background Collection Date 2/27/92

Ice Chest No. RM 42 Field Logbook No. NA

Bill of Lading/Airbill No. 250 986 568 8 Offsite Property No. W92-0-0123 #58

Method of Shipment Emery

Shipped to S-Cubed, San Diego, CA

Possible Sample Hazards/Remarks None

Sample Identification

B06153 (1) 250-ml

Ringold Fm, North of Hatchery

☐ Field Transfer of Custody	CHAIN OF POSSESSION	(Sign and Print Names)
Relinquished by: [signature]	Received by: [signature]	Date/Time: 2/27/92 10:30 AM
Relinquished by: [signature]	Received by: C.D. Kramer	Date/Time: 2/28/92 7:37 AM
Relinquished by: C.D. Kramer [signature]	Received by: [signature]	Date/Time: 2/29/92 11:30 AM
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:

1i

A-6000-407 (12/

S3 Lot# 2831

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST

Priority Samples Project 92-155

PART I: FIELD SECTION

Collector C. D. Kramer Date Sampled 2/27/92 Time 8:00 hours

Company Contact Chris Kramer Telephone (509) 376-4186

Sample Number	Number and Type of Sample Containers	Type of Sample*	Analysis Requested
B06136	(1) 120-ml amber jar	Soil	CLP VOA
B06138	"	"	"
B06137	(1) 120-ml (2) 250-ml	Soil	CLP VOA, Semi-voa, PCB/Pest.
B06139	"	"	TOC
B06140	"	"	ICP Metals: Al, Ca, Fe, Mg, Mn,
B06141	"	"	Mo, K, Na, Si, Ti, Zr, Ba,
B06142	"	"	Be, Cr, Co, Cu, Ni, V, Zn
B06143	"	" each	AA Metals: Sb, As, Cd, Pb, Hg,
B06144	"	" sample	Se, Ag, Tl, Mo
B06145	"	"	Anions: F, Cl, NO_2, NO_3, PO_4,
B06146	"	"	SO_4
B06147	"	"	Ammonium
B06148	"	"	Carbonate
B06150	"	"	
B06149	(2) 250-ml	Soil	CLP VOA, Semi-voa, PCB/Pest plus TOC
B06153	(1) 250-ml	Soil	ICP Metals, AA Metals, Anions, Ammonium, and Carbonate as above

Field Information** Three attached tables show requested analytes, methods, and approximate expected ranges.

Special Handling and/or Storage Sample B06153 has a seperate chain of Custody form in this shipment.

Possible Sample Hazards

PART II: LABORATORY SECTION

Received by _____ Title _____ Date _____

Analysis Required _____

*Indicate whether sample is soil, sludge, water, etc.

**Use back of page for additional information relative to sample location.

A-6000-406 (05/90)

Signature Security
SATURDAY DELIVERY

SB Lot # 2831

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
Westinghouse Hanford		W92-0-0123 #58

PART I—TO BE COMPLETED BY ORIGINATOR

Department: Envir. Engineering | Section: Technical Baseline | Unit:

The following items are to be shipped from: ☒ Contractor ☐ Vendor

Routing: Emery ☒ Contractor ☐ Vendor

Shipped to:
S-Cubed
3398 Carmel Mt. Rd.
San Diego, CA 92121-1095

Off-site Custodian: John Donald

Full Title: Project Coordinator

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	Poly Ice Chests (RM#42 7)	
Weight: 44 lbs	Glass single bottles of soil packed in blue ice and vermiculite	
[illegible] lbs	RM#42 [illegible] samples [illegible] B06143 thru B06150 and B06153	
[illegible] lbs	7 Samples B06136 thru B06142	

☐ Classified ☒ Unclassified ☒ Shipped Under DOE Contract ☐ Shipped Under Contractor's Use Permit Contract

Necessity for the Off Site Use of this Property:
Program not available on site

Bill of Lading # 250 986 568 8

CERTIFICATION OF THE RADIATION MONITORING RELEASE MUST BE SECURED THE SAME DAY THAT MATERIAL IS DELIVERED TO SHIPPING.

RM Clearance for Public Release	RM Survey No.	Date
[signature]	20514	2-28-92

Location of Property (Area & Bldg.)	Contact	Phone
Background – Organic Sites	C.D. Kramer	(509) 376-4186

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
2/28/92	PK1BB	

Originated By	Date	Authorized By	Date
C.D. Kramer / C.D. Kramer	2/28/92	[signature]	2-28-92

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
		[signature]	2/28/92

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No.	Date Issued	Purchase Order No.	Date Issued
[signature]				
Date 2-28-92				

DISTRIBUTION

BEST AVAILABLE COPY

By Originator	Shipping Operation – Sign all Copies and Forward to:	
White, Green, Yellow, Pink – Property Management Goldenrod – Retain	White – Property Management Yellow – Retain	Green – Property Control Custodian (Issuing Office) Pink – Originator

1K

54-3000-479 (09/89)

FORM OF PAYMENT

Check ☐ GBL ☐ FOB/CD ☐

Bill to Shipper ☐ Bill to Consignee ☐ Third Party Billing ☐

EMERY WORLDWIDE — A CF Company

SERVICES

UNITED STATES / CANADA: Same Day ☐ AM ☐ PM ☐ Second Day ☐ Saturday Delivery ☐

INTERNATIONAL: Express ☐ Preferred ☐ Standard ☐ Business Documents ☐ Customs Clearance ☐ Delivery ☐

E Shipper's Account Number: 850281585

Date: 02-28-92 | Origin: PSC | Shipment Number: 250986568 8

From:
WESTINGHOUSE SHIPPING DEPT (509) 376-6665
US DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD
BLDG 1163
2355 STEVENS DRIVE
RICHLAND WA Zip 99352 Canada ☐

Customer's Reference Numbers: PK1BB W92-0-0123#58

To:
JOHN DEWALD
S-CUBED
3398 CARMEL MT. ROAD
SAN DIEGO CA Zip 92121-1095 Canada ☐ Hold for Pick Up ☐

E Consignee's Account Number

Tariff Dest. | Gateway

Check to Shipper $

EMERY WORLDWIDE will accept Consignee's check with all risks being assumed by Shipper, including but not limited to non-payment, fraud and misrepresentation.

Description: 2 ICE CHESTS RM#42 44#
#7 36# SOIL SAMPLES
W92-0-0123 #58

Dimensions / Pieces / Total Weight (in Lbs): 80

FOR INFORMATION OR RATES CALL 1-800 44 EMERY (1-800-443-6379)

Declared Value $

Remarks: SATURDAY DELIVERY
SIGNATURE SECURITY SERVICE

Zip Ship ☐ For shipments within the 50 United States, Shipper has the option to check this box and, by checking, agree that the Zip Ship conditions, described in the area to the right, apply.

Mark if Emery Waybill is used ☐

Urgent Letter 9X12 ☐ Urgent Pack 12X15 ☐

Shipper's Signature X

International Shipments: Free Domicile ☐ Commodity Code

Third Party Account Number mandatory for Third Party Billing. E Third Party Account Number

International Customs Value | International Insurance

Base Charge

Total Transportation Charges | Other Charges Advance at Origin ☐ OCMO $

250986568 8

SAN

SAT

Terms and Conditions on Back

EMERY WORLDWIDE — A CF Company

SIGNATURE AND TALLY RECORD

60029-48 (8/88) Litho USA

DATE: 02-28-92 SHIPMENT NO.: N 250986568 6
SHIPPER: WESTINGHOUSE SHIPPING DEPT (509) 376-6665
REFERENCE NO.: W92-0-0123 #58

SHIPPER NAME AND ADDRESS

WESTINGHOUSE SHIPPING DEPT (509) 376-6665
G2-06 US DEPARTMENT OF ENERGY C/O
WESTINGHOUSE HANFORD COMPANY
2355 STEVENS DRIVE 1163 BUILDING
PO BOX 1970
RICHLAND WA 99352

W92-0-0123#58 2831 B359-04

CONSIGNEE NAME AND ADDRESS

JOHN DEWALD
S-CUBED
3398 CARMEL MT. ROAD
SAN DIEGO CA 92121-1095

16

Pieces	Weight	Description/Marks	Emery Authorization No.
2	80 LBS	SOIL SAMPLES COOLER RM#42 440, #7 360	

EACH PERSON HANDLING OR TAKING CUSTODY OF THIS SHIPMENT MUST SIGN AND COMPLETE THE INFORMATION BELOW

Name of Person/Company	Transship Point/Destination	Signature of Person Accepting Custody	Time/Date
1. [illegible]	[illegible]	[illegible]	[illegible]
2. [illegible]	[illegible]	[illegible]	[illegible]
3. [illegible] EWW	PSC	[illegible]	1545 2-27-92
4. [illegible] OK	PSC	[illegible]	1400 2/28
5. ETHEL C. ROGER	EWW/Hdy	Ethel C. Roger	0415 4/29/92
6. S. May	EWW	S. May	1155 2-29
7. J. DOVE	EWW SM	J. Dove	1231 - 2-27-92
8. J. DeWald	S-CUBED	J. DeWald	12.31 - 2/29/92

SPECIAL HANDLING INSTRUCTIONS

CONSIGNEE COPY

1m

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0136

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-1
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH311
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 0.00 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	46	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	22	
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0136

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
2.				
3.				
4.				
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30.				

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH312
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 16.80 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	13	B
67-64-1	Acetone	75	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	29	
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	4	J
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0137

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
2.				
3.				
4.				
5.				
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0138

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-3
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH313
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 19.10 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	8	J B
67-64-1	Acetone	81	
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
B0138

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH314
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 33.20 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	U
74-83-9	Bromomethane	15	U
75-01-4	Vinyl Chloride	15	U
75-00-3	Chloroethane	15	U
75-09-2	Methylene Chloride	13	J B
67-64-1	Acetone	110	
75-15-0	Carbon Disulfide	15	U
75-35-4	1,1-Dichloroethene	15	U
75-34-3	1,1-Dichloroethane	15	U
540-59-0	1,2-Dichloroethene (total)	15	U
67-66-3	Chloroform	15	U
107-06-2	1,2-Dichloroethane	15	U
78-93-3	2-Butanone	15	U
71-55-6	1,1,1-Trichloroethane	15	U
56-23-5	Carbon Tetrachloride	15	U
75-27-4	Bromodichloromethane	15	U
78-87-5	1,2-Dichloropropane	15	U
10061-01-5	cis-1,3-Dichloropropene	15	U
79-01-6	Trichloroethene	15	U
124-48-1	Dibromochloromethane	15	U
79-00-5	1,1,2-Trichloroethane	15	U
71-43-2	Benzene	15	U
10061-02-6	trans-1,3-Dichloropropene	15	U
75-25-2	Bromoform	15	U
108-10-1	4-Methyl-2-pentanone	15	U
591-78-6	2-Hexanone	15	U
127-18-4	Tetrachloroethene	15	U
108-88-3	Toluene	15	U
79-34-5	1,1,2,2-Tetrachloroethane	15	U
108-90-7	Chlorobenzene	15	U
100-41-4	Ethyl Benzene	15	U
100-42-5	Styrene	15	U
1330-20-7	Xylene (total)	15	U

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Sample Number
B0139

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC315
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 15.10 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	7	JB
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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Sample Number
B0140

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC316
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 18.50 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	10	JB
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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Sample Number
B0141

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH317
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 7.60 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	14	B
67-64-1	Acetone	50	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	23	
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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Sample Number
B0142

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH318
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 13.10 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	21	B
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	31	
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

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Sample Number
B0143

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH319
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 6.50 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	15	B
67-64-1	Acetone	37	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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Sample Number
B0144

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH110
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 7.70 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	7	JB
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
B0145

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH111
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 29.10 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	9	JB
67-64-1	Acetone	33	
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	42	B
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethyl Benzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

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Sample Number
B0146

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH112
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 29.60 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	JB
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	33	B
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	U
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethyl Benzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

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Sample Number
B0147

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH113
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 9.40 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	24	B
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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Sample Number
B0148

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC114
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 0.20 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	13	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

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Sample Number
B0149

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH115
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 8.20 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	15	
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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Sample Number
B0150

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO TIC'S FOUND	VOA		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3102
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 16.80 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	790	U
111-44-4	bis(2-Chloroethyl)ether	790	U
95-57-8	2-Chlorophenol	790	U
541-73-1	1,3-Dichlorobenzene	790	U
106-46-7	1,4-Dichlorobenzene	790	U
95-50-1	1,2-Dichlorobenzene	790	U
95-48-7	2-Methylphenol	790	U
108-60-1	2,2'-oxybis(1-Chloropropane)	790	U
106-44-5	4-Methylphenol	790	U
621-64-7	N-Nitroso-di-n-propylamine	790	U
67-72-1	Hexachloroethane	790	U
98-95-3	Nitrobenzene	790	U
78-59-1	Isophorone	790	U
88-75-5	2-Nitrophenol	790	U
105-67-9	2,4-Dimethylphenol	790	U
111-91-1	bis(2-Chloroethoxy)methane	790	U
120-83-2	2,4-Dichlorophenol	790	U
120-82-1	1,2,4-Trichlorobenzene	790	U
91-20-3	Naphthalene	790	U
106-47-8	4-Chloroaniline	790	U
87-68-3	Hexachlorobutadiene	790	U
59-50-7	4-Chloro-3-methylphenol	790	U
91-57-6	2-Methylnaphthalene	790	U
77-47-4	Hexachlorocyclopentadiene	790	U
88-06-2	2,4,6-Trichlorophenol	790	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	790	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	790	U
208-96-8	Acenaphthylene	790	U
606-20-2	2,6-Dinitrotoluene	790	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	790	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	790	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3102
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 16.80 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	790	U
84-66-2	Diethylphthalate	790	U
7005-72-3	4-Chlorophenyl-phenyl ether	790	U
86-73-7	Fluorene	790	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	790	U
101-55-3	4-Bromophenyl-phenylether	790	U
118-74-1	Hexachlorobenzene	790	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	790	U
120-12-7	Anthracene	790	U
86-74-8	Carbazole	790	U
84-74-2	Di-n-butylphthalate	790	U
206-44-0	Fluoranthene	790	U
129-00-0	Pyrene	790	U
85-68-7	Butylbenzylphthalate	790	U
91-94-1	3,3'-Dichlorobenzidine	790	U
56-55-3	Benzo(a)anthracene	790	U
218-01-9	Chrysene	790	U
117-81-7	Bis(2-Ethylhexyl)phthalate	790	U
117-84-0	Di-n-octylphthalate	790	U
205-99-2	Benzo(b)fluoranthene	790	U
207-08-9	Benzo(k)fluoranthene	790	U
50-32-8	Benzo(a)pyrene	790	U
193-39-5	Indeno(1,2,3-cd)pyrene	790	U
53-70-3	Dibenz(a,h)anthracene	790	U
191-24-2	Benzo(g,h,i)perylene	790	U

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Sample Number
B0137

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	360 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.24	1600 JNB
3.	UNKNOWN HYDROCARBON	"	32.85	690 J
4.	UNKNOWN HYDROCARBON	"	34.67	2000 J
5.	UNKNOWN HYDROCARBON	"	36.37	880 J
6.	UNKNOWN	"	37.78	620 J
7.	UNKNOWN	"	38.28	340 J
8.	UNKNOWN	"	40.26	1200 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.11 (g/mL) G Lab File ID: A3104
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 33.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	980	U
111-44-4	bis(2-Chloroethyl)ether	980	U
95-57-8	2-Chlorophenol	980	U
541-73-1	1,3-Dichlorobenzene	980	U
106-46-7	1,4-Dichlorobenzene	980	U
95-50-1	1,2-Dichlorobenzene	980	U
95-48-7	2-Methylphenol	980	U
108-60-1	2,2'-oxybis(1-Chloropropane)	980	U
106-44-5	4-Methylphenol	980	U
621-64-7	N-Nitroso-di-n-propylamine	980	U
67-72-1	Hexachloroethane	980	U
98-95-3	Nitrobenzene	980	U
78-59-1	Isophorone	980	U
88-75-5	2-Nitrophenol	980	U
105-67-9	2,4-Dimethylphenol	980	U
111-91-1	bis(2-Chloroethoxy)methane	980	U
120-83-2	2,4-Dichlorophenol	980	U
120-82-1	1,2,4-Trichlorobenzene	980	U
91-20-3	Naphthalene	980	U
106-47-8	4-Chloroaniline	980	U
87-68-3	Hexachlorobutadiene	980	U
59-50-7	4-Chloro-3-methylphenol	980	U
91-57-6	2-Methylnaphthalene	980	U
77-47-4	Hexachlorocyclopentadiene	980	U
88-06-2	2,4,6-Trichlorophenol	980	U
95-95-4	2,4,5-Trichlorophenol	2400	U
91-58-7	2-Chloronaphthalene	980	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	980	U
208-96-8	Acenaphthylene	980	U
606-20-2	2,6-Dinitrotoluene	980	U
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	980	U
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	980	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.11 (g/mL) G Lab File ID: A3104
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 33.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	980	U
84-66-2	Diethylphthalate	980	U
7005-72-3	4-Chlorophenyl-phenyl ether	980	U
86-73-7	Fluorene	980	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	980	U
101-55-3	4-Bromophenyl-phenylether	980	U
118-74-1	Hexachlorobenzene	980	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	980	U
120-12-7	Anthracene	980	U
86-74-8	Carbazole	980	U
84-74-2	Di-n-butylphthalate	980	U
206-44-0	Fluoranthene	980	U
129-00-0	Pyrene	980	U
85-68-7	Butylbenzylphthalate	980	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)anthracene	980	U
218-01-9	Chrysene	980	U
117-81-7	Bis(2-Ethylhexyl)phthalate	980	U
117-84-0	Di-n-octylphthalate	980	U
205-99-2	Benzo(b)fluoranthene	980	U
207-08-9	Benzo(k)fluoranthene	980	U
50-32-8	Benzo(a)pyrene	980	U
193-39-5	Indeno(1,2,3-cd)pyrene	980	U
53-70-3	Dibenz(a,h)anthracene	980	U
191-24-2	Benzo(g,h,i)perylene	980	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0139

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	BNA	4.25	2000 JNB
2.	UNKNOWN HYDROCARBON	"	30.90	780 J
3.	UNKNOWN	"	31.02	760 J
4.	UNKNOWN	"	32.20	740 J
5.	UNKNOWN HYDROCARBON	"	32.50	710 J
6.	UNKNOWN	"	32.85	3800 J
7.	UNKNOWN	"	32.99	1400 J
8.	UNKNOWN	"	33.78	850 J
9.	UNKNOWN	"	34.68	6000 J
10.	UNKNOWN	"	36.24	800 J
11.	UNKNOWN	"	36.43	2700 J
12.	UNKNOWN	"	36.57	1200 J
13.	UNKNOWN	"	36.98	1100 J
14.	UNKNOWN	"	37.48	650 J
15.	UNKNOWN	"	37.75	2000 J
16.	UNKNOWN	"	37.84	580 J
17.	UNKNOWN	"	38.24	5000 J
18.	UNKNOWN	"	38.33	1600 J
19.	UNKNOWN	"	38.93	920 J
20.	UNKNOWN	"	39.43	600 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.17 (g/mL) G Lab File ID: A3105
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 15.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	770	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.17 (g/mL) G Lab File ID: A3105
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 15.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenyl ether	770	U
86-73-7	Fluorene	770	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
86-74-8	Carbazole	770	U
84-74-2	Di-n-butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	U
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	Bis(2-Ethylhexyl)phthalate	770	U
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	U
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	770	U
193-39-5	Indeno(1,2,3-cd)pyrene	770	U
53-70-3	Dibenz(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	770	U

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P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0140

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.06	2100 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.25	1600 JNB
3.	UNKNOWN HYDROCARBON	"	34.67	580 J
4.	UNKNOWN HYDROCARBON	"	36.37	460 J
5.	UNKNOWN	"	37.73	300 J
6.	UNKNOWN	"	38.21	1200 J
7.	UNKNOWN	"	39.43	480 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.22 (g/mL) G Lab File ID: A3106
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 18.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-di-n-propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
111-91-1	bis(2-Chloroethoxy)methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	800	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.22 (g/mL) G Lab File ID: A3106
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 18.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenyl ether	800	U
86-73-7	Fluorene	800	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
86-74-8	Carbazole	800	U
84-74-2	Di-n-butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	U
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	800	U
56-55-3	Benzo(a)anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	Bis(2-Ethylhexyl)phthalate	800	U
117-84-0	Di-n-octylphthalate	800	U
205-99-2	Benzo(b)fluoranthene	800	U
207-08-9	Benzo(k)fluoranthene	800	U
50-32-8	Benzo(a)pyrene	800	U
193-39-5	Indeno(1,2,3-cd)pyrene	800	U
53-70-3	Dibenz(a,h)anthracene	800	U
191-24-2	Benzo(g,h,i)perylene	800	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
80141

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	BNA	4.25	1800 JNB
2.	UNKNOWN	"	22.61	440 J
3.	UNKNOWN	"	4.03	940 J
4.	UNKNOWN	"	36.43	1600 J
5.	UNKNOWN	"	37.19	470 J
6.	UNKNOWN	"	38.21	1300 J
7.	UNKNOWN	"	39.43	500 J
8.	UNKNOWN	"	40.01	410 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.01 (g/mL) G Lab File ID: A3107
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	bis(2-Chloroethyl)ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	U
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-di-n-propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
111-91-1	bis(2-Chloroethoxy)methane	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	U
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U
91-57-6	2-Methylnaphthalene	710	U
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	710	U
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	710	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	710	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.01 (g/mL) G Lab File ID: A3107
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	710	U
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenyl ether	710	U
86-73-7	Fluorene	710	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	710	U
120-12-7	Anthracene	710	U
86-74-8	Carbazole	710	U
84-74-2	Di-n-butylphthalate	710	U
206-44-0	Fluoranthene	710	U
129-00-0	Pyrene	710	U
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo(a)anthracene	710	U
218-01-9	Chrysene	710	U
117-81-7	Bis(2-Ethylhexyl)phthalate	710	U
117-84-0	Di-n-octylphthalate	710	U
205-99-2	Benzo(b)fluoranthene	710	U
207-08-9	Benzo(k)fluoranthene	710	U
50-32-8	Benzo(a)pyrene	710	U
193-39-5	Indeno(1,2,3-cd)pyrene	710	U
53-70-3	Dibenz(a,h)anthracene	710	U
191-24-2	Benzo(g,h,i)perylene	710	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
B0142

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	330 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.25	2000 JNB
3.	UNKNOWN HYDROCARBON	"	34.66	390 J
4.	UNKNOWN	"	38.21	360 J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.18 (g/mL) G Lab File ID: A3108
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 13.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	750	U
111-44-4	bis(2-Chloroethyl)ether	750	U
95-57-8	2-Chlorophenol	750	U
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
95-50-1	1,2-Dichlorobenzene	750	U
95-48-7	2-Methylphenol	750	U
108-60-1	2,2'-oxybis(1-Chloropropane)	750	U
106-44-5	4-Methylphenol	750	U
621-64-7	N-Nitroso-di-n-propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U
78-59-1	Isophorone	750	U
88-75-5	2-Nitrophenol	750	U
105-67-9	2,4-Dimethylphenol	750	U
111-91-1	bis(2-Chloroethoxy)methane	750	U
120-83-2	2,4-Dichlorophenol	750	U
120-82-1	1,2,4-Trichlorobenzene	750	U
91-20-3	Naphthalene	750	U
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	750	U
59-50-7	4-Chloro-3-methylphenol	750	U
91-57-6	2-Methylnaphthalene	750	U
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	750	U
208-96-8	Acenaphthylene	750	U
606-20-2	2,6-Dinitrotoluene	750	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	750	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	750	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.18 (g/mL) G Lab File ID: A3108
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 13.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
7005-72-3	4-Chlorophenyl-phenyl ether	750	U
86-73-7	Fluorene	750	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	750	U
120-12-7	Anthracene	750	U
86-74-8	Carbazole	750	U
84-74-2	Di-n-butylphthalate	750	U
206-44-0	Fluoranthene	750	U
129-00-0	Pyrene	750	U
85-68-7	Butylbenzylphthalate	750	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)anthracene	750	U
218-01-9	Chrysene	750	U
117-81-7	Bis(2-Ethylhexyl)phthalate	750	U
117-84-0	Di-n-octylphthalate	750	U
205-99-2	Benzo(b)fluoranthene	750	U
207-08-9	Benzo(k)fluoranthene	750	U
50-32-8	Benzo(a)pyrene	750	U
193-39-5	Indeno(1,2,3-cd)pyrene	750	U
53-70-3	Dibenz(a,h)anthracene	750	U
191-24-2	Benzo(g,h,i)perylene	750	U

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Sample Number
B0143

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	740 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY- 4-METHYL-	"	4.26	1800 JNB
3.	UNKNOWN	"	38.21	550 J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.19 (g/mL) G Lab File ID: A3109
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 6.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	700	U
111-44-4	bis(2-Chloroethyl)ether	700	U
95-57-8	2-Chlorophenol	700	U
541-73-1	1,3-Dichlorobenzene	700	U
106-46-7	1,4-Dichlorobenzene	700	U
95-50-1	1,2-Dichlorobenzene	700	U
95-48-7	2-Methylphenol	700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700	U
106-44-5	4-Methylphenol	700	U
621-64-7	N-Nitroso-di-n-propylamine	700	U
67-72-1	Hexachloroethane	700	U
98-95-3	Nitrobenzene	700	U
78-59-1	Isophorone	700	U
88-75-5	2-Nitrophenol	700	U
105-67-9	2,4-Dimethylphenol	700	U
111-91-1	bis(2-Chloroethoxy)methane	700	U
120-83-2	2,4-Dichlorophenol	700	U
120-82-1	1,2,4-Trichlorobenzene	700	U
91-20-3	Naphthalene	700	U
106-47-8	4-Chloroaniline	700	U
87-68-3	Hexachlorobutadiene	700	U
59-50-7	4-Chloro-3-methylphenol	700	U
91-57-6	2-Methylnaphthalene	700	U
77-47-4	Hexachlorocyclopentadiene	700	U
88-06-2	2,4,6-Trichlorophenol	700	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	700	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	700	U
208-96-8	Acenaphthylene	700	U
606-20-2	2,6-Dinitrotoluene	700	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	700	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	700	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.19 (g/mL) G Lab File ID: A3109
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 6.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	700	U
84-66-2	Diethylphthalate	700	U
7005-72-3	4-Chlorophenyl-phenyl ether	700	U
86-73-7	Fluorene	700	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	700	U
101-55-3	4-Bromophenyl-phenylether	700	U
118-74-1	Hexachlorobenzene	700	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	700	U
120-12-7	Anthracene	700	U
86-74-8	Carbazole	700	U
84-74-2	Di-n-butylphthalate	700	U
206-44-0	Fluoranthene	700	U
129-00-0	Pyrene	700	U
85-68-7	Butylbenzylphthalate	700	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	700	U
218-01-9	Chrysene	700	U
117-81-7	Bis(2-Ethylhexyl)phthalate	700	U
117-84-0	Di-n-octylphthalate	700	U
205-99-2	Benzo(b)fluoranthene	700	U
207-08-9	Benzo(k)fluoranthene	700	U
50-32-8	Benzo(a)pyrene	700	U
193-39-5	Indeno(1,2,3-cd)pyrene	700	U
53-70-3	Dibenz(a,h)anthracene	700	U
191-24-2	Benzo(g,h,i)perylene	700	U

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Sample Number
B0144

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY- 4-METHYL-	BNA	4.25	1100 JNB
2.	UNKNOWN	"	27.32	240 J
3.	UNKNOWN	"	30.82	740 J
4.	UNKNOWN HYDROCARBON	"	30.90	250 J
5.	UNKNOWN HYDROCARBON	"	32.85	1700 J
6.	UNKNOWN HYDROCARBON	"	33.78	470 J
7.	UNKNOWN HYDROCARBON	"	34.70	6300 J
8.	UNKNOWN HYDROCARBON	"	35.53	500 J
9.	UNKNOWN HYDROCARBON	"	36.38	3400 J
10.	UNKNOWN	"	36.56	610 J
11.	UNKNOWN	"	37.74	360 J
12.	UNKNOWN HYDROCARBON	"	37.98	260 J
13.	UNKNOWN	"	38.22	2000 J
14.	UNKNOWN	"	38.64	310 J
15.	UNKNOWN	"	39.44	540 J
16.	UNKNOWN	"	40.27	300 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.05 (g/mL) G Lab File ID: A3110
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.70 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	bis(2-Chloroethyl)ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	U
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-di-n-propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
111-91-1	bis(2-Chloroethoxy)methane	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	U
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U
91-57-6	2-Methylnaphthalene	710	U
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	710	U
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	710	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	710	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.05 (g/mL) G Lab File ID: A3110
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.70 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	710	U
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenyl ether	710	U
86-73-7	Fluorene	710	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	710	U
120-12-7	Anthracene	710	U
86-74-8	Carbazole	710	U
84-74-2	Di-n-butylphthalate	710	U
206-44-0	Fluoranthene	710	U
129-00-0	Pyrene	710	U
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo(a)anthracene	710	U
218-01-9	Chrysene	710	U
117-81-7	Bis(2-Ethylhexyl)phthalate	710	U
117-84-0	Di-n-octylphthalate	710	U
205-99-2	Benzo(b)fluoranthene	710	U
207-08-9	Benzo(k)fluoranthene	710	U
50-32-8	Benzo(a)pyrene	710	U
193-39-5	Indeno(1,2,3-cd)pyrene	710	U
53-70-3	Dibenz(a,h)anthracene	710	U
191-24-2	Benzo(g,h,i)perylene	710	U

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Sample Number
B0145

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	BNA	4.25	1800 JNB
2.	UNKNOWN HYDROCARBON	"	34.67	970 J
3.	UNKNOWN HYDROCARBON	"	36.37	1300 J
4.	UNKNOWN	"	38.19	370 J
5.	UNKNOWN	"	40.26	1200 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.16 (g/mL) G Lab File ID: A3111
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	930	U
111-44-4	bis(2-Chloroethyl)ether	930	U
95-57-8	2-Chlorophenol	930	U
541-73-1	1,3-Dichlorobenzene	930	U
106-46-7	1,4-Dichlorobenzene	930	U
95-50-1	1,2-Dichlorobenzene	930	U
95-48-7	2-Methylphenol	930	U
108-60-1	2,2'-oxybis(1-Chloropropane)	930	U
106-44-5	4-Methylphenol	930	U
621-64-7	N-Nitroso-di-n-propylamine	930	U
67-72-1	Hexachloroethane	930	U
98-95-3	Nitrobenzene	930	U
78-59-1	Isophorone	930	U
88-75-5	2-Nitrophenol	930	U
105-67-9	2,4-Dimethylphenol	930	U
111-91-1	bis(2-Chloroethoxy)methane	930	U
120-83-2	2,4-Dichlorophenol	930	U
120-82-1	1,2,4-Trichlorobenzene	930	U
91-20-3	Naphthalene	930	U
106-47-8	4-Chloroaniline	930	U
87-68-3	Hexachlorobutadiene	930	U
59-50-7	4-Chloro-3-methylphenol	930	U
91-57-6	2-Methylnaphthalene	930	U
77-47-4	Hexachlorocyclopentadiene	930	U
88-06-2	2,4,6-Trichlorophenol	930	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	930	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	930	U
208-96-8	Acenaphthylene	930	U
606-20-2	2,6-Dinitrotoluene	930	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	930	U
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	930	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.16 (g/mL) G Lab File ID: A3111
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	930	U
84-66-2	Diethylphthalate	930	U
7005-72-3	4-Chlorophenyl-phenyl ether	930	U
86-73-7	Fluorene	930	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	930	U
101-55-3	4-Bromophenyl-phenylether	930	U
118-74-1	Hexachlorobenzene	930	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	930	U
120-12-7	Anthracene	930	U
86-74-8	Carbazole	930	U
84-74-2	Di-n-butylphthalate	930	U
206-44-0	Fluoranthene	930	U
129-00-0	Pyrene	930	U
85-68-7	Butylbenzylphthalate	930	U
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)anthracene	930	U
218-01-9	Chrysene	930	U
117-81-7	Bis(2-Ethylhexyl)phthalate	930	U
117-84-0	Di-n-octylphthalate	930	U
205-99-2	Benzo(b)fluoranthene	930	U
207-08-9	Benzo(k)fluoranthene	930	U
50-32-8	Benzo(a)pyrene	930	U
193-39-5	Indeno(1,2,3-cd)pyrene	930	U
53-70-3	Dibenz(a,h)anthracene	930	U
191-24-2	Benzo(g,h,i)perylene	930	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0146

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BN/A	4.04	1100 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.25	2400 JNB
3.	UNKNOWN	"	36.42	430 J
4.	UNKNOWN	"	38.20	1200 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3112
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	930	U
111-44-4	bis(2-Chloroethyl)ether	930	U
95-57-8	2-Chlorophenol	930	U
541-73-1	1,3-Dichlorobenzene	930	U
106-46-7	1,4-Dichlorobenzene	930	U
95-50-1	1,2-Dichlorobenzene	930	U
95-48-7	2-Methylphenol	930	U
108-60-1	2,2'-oxybis(1-Chloropropane)	930	U
106-44-5	4-Methylphenol	930	U
621-64-7	N-Nitroso-di-n-propylamine	930	U
67-72-1	Hexachloroethane	930	U
98-95-3	Nitrobenzene	930	U
78-59-1	Isophorone	930	U
88-75-5	2-Nitrophenol	930	U
105-67-9	2,4-Dimethylphenol	930	U
111-91-1	bis(2-Chloroethoxy)methane	930	U
120-83-2	2,4-Dichlorophenol	930	U
120-82-1	1,2,4-Trichlorobenzene	930	U
91-20-3	Naphthalene	930	U
106-47-8	4-Chloroaniline	930	U
87-68-3	Hexachlorobutadiene	930	U
59-50-7	4-Chloro-3-methylphenol	930	U
91-57-6	2-Methylnaphthalene	930	U
77-47-4	Hexachlorocyclopentadiene	930	U
88-06-2	2,4,6-Trichlorophenol	930	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	930	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	930	U
208-96-8	Acenaphthylene	930	U
606-20-2	2,6-Dinitrotoluene	930	U
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	930	U
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	930	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3112
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	930	U
84-66-2	Diethylphthalate	930	U
7005-72-3	4-Chlorophenyl-phenyl ether	930	U
86-73-7	Fluorene	930	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	930	U
101-55-3	4-Bromophenyl-phenylether	930	U
118-74-1	Hexachlorobenzene	930	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	930	U
120-12-7	Anthracene	930	U
86-74-8	Carbazole	930	U
84-74-2	Di-n-butylphthalate	930	U
206-44-0	Fluoranthene	930	U
129-00-0	Pyrene	930	U
85-68-7	Butylbenzylphthalate	930	U
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)anthracene	930	U
218-01-9	Chrysene	930	U
117-81-7	Bis(2-Ethylhexyl)phthalate	930	U
117-84-0	Di-n-octylphthalate	930	U
205-99-2	Benzo(b)fluoranthene	930	U
207-08-9	Benzo(k)fluoranthene	930	U
50-32-8	Benzo(a)pyrene	930	U
193-39-5	Indeno(1,2,3-cd)pyrene	930	U
53-70-3	Dibenz(a,h)anthracene	930	U
191-24-2	Benzo(g,h,i)perylene	930	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0147

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.05	1200 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL	"	4.25	2100 JNB
3.	UNKNOWN HYDROCARBON	"	34.66	380 J
4.	UNKNOWN	"	38.21	720 J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3113
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 9.40 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	730	U
111-44-4	bis(2-Chloroethyl)ether	730	U
95-57-8	2-Chlorophenol	730	U
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
95-48-7	2-Methylphenol	730	U
108-60-1	2,2'-oxybis(1-Chloropropane)	730	U
106-44-5	4-Methylphenol	730	U
621-64-7	N-Nitroso-di-n-propylamine	730	U
67-72-1	Hexachloroethane	730	U
98-95-3	Nitrobenzene	730	U
78-59-1	Isophorone	730	U
88-75-5	2-Nitrophenol	730	U
105-67-9	2,4-Dimethylphenol	730	U
111-91-1	bis(2-Chloroethoxy)methane	730	U
120-83-2	2,4-Dichlorophenol	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U
91-20-3	Naphthalene	730	U
106-47-8	4-Chloroaniline	730	U
87-68-3	Hexachlorobutadiene	730	U
59-50-7	4-Chloro-3-methylphenol	730	U
91-57-6	2-Methylnaphthalene	730	U
77-47-4	Hexachlorocyclopentadiene	730	U
88-06-2	2,4,6-Trichlorophenol	730	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	730	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	730	U
208-96-8	Acenaphthylene	730	U
606-20-2	2,6-Dinitrotoluene	730	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	730	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	730	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3113
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 9.40 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	730	U
84-66-2	Diethylphthalate	730	U
7005-72-3	4-Chlorophenyl-phenyl ether	730	U
86-73-7	Fluorene	730	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	730	U
101-55-3	4-Bromophenyl-phenylether	730	U
118-74-1	Hexachlorobenzene	730	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	730	U
120-12-7	Anthracene	730	U
86-74-8	Carbazole	730	U
84-74-2	Di-n-butylphthalate	730	U
206-44-0	Fluoranthene	730	U
129-00-0	Pyrene	730	U
85-68-7	Butylbenzylphthalate	730	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)anthracene	730	U
218-01-9	Chrysene	730	U
117-81-7	Bis(2-Ethylhexyl)phthalate	730	U
117-84-0	Di-n-octylphthalate	730	U
205-99-2	Benzo(b)fluoranthene	730	U
207-08-9	Benzo(k)fluoranthene	730	U
50-32-8	Benzo(a)pyrene	730	U
193-39-5	Indeno(1,2,3-cd)pyrene	730	U
53-70-3	Dibenz(a,h)anthracene	730	U
191-24-2	Benzo(g,h,i)perylene	730	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
B0148

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.03	710 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.25	1700 JNB
3.	UNKNOWN HYDROCARBON	"	32.85	470 J
4.	UNKNOWN HYDROCARBON	"	34.67	1400 J
5.	UNKNOWN HYDROCARBON	"	36.37	520 J
6.	UNKNOWN	"	38.21	890 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.03 (g/mL) G Lab File ID: A3114
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 0.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	660	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.03 (g/mL) G Lab File ID: A3114
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 0.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenyl ether	660	U
86-73-7	Fluorene	660	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
86-74-8	Carbazole	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	Bis(2-Ethylhexyl)phthalate	660	U
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenz(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

Environmental Protection Agency. CLP Sample Management Office.
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Sample Number
B0149

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	BNA	4.25	2000 JNB
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3115
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 8.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
95-50-1	1,2-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	2,2'-oxybis(1-Chloropropane)	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	720	U
208-96-8	Acenaphthylene	720	U
606-20-2	2,6-Dinitrotoluene	720	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	720	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	720	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3115
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 8.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
7005-72-3	4-Chlorophenyl-phenyl ether	720	U
86-73-7	Fluorene	720	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	720	U
120-12-7	Anthracene	720	U
86-74-8	Carbazole	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	720	U
129-00-0	Pyrene	720	U
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	720	U
218-01-9	Chrysene	720	U
117-81-7	Bis(2-Ethylhexyl)phthalate	720	U
117-84-0	Di-n-octylphthalate	720	U
205-99-2	Benzo(b)fluoranthene	720	U
207-08-9	Benzo(k)fluoranthene	720	U
50-32-8	Benzo(a)pyrene	720	U
193-39-5	Indeno(1,2,3-cd)pyrene	720	U
53-70-3	Dibenz(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	720	U

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0150

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	290 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	4.26	1800 JNB
3.	UNKNOWN HYDROCARBON	"	36.36	260 J
4.	UNKNOWN	"	38.20	320 J
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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 29.99(g/mL) G Lab File ID: E0229-2DB608078
% Moisture: 16.80 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.04	U
319-85-7	beta-BHC	2.04	U
319-86-8	delta-BHC	2.04	U
58-89-9	gamma-BHC (Lindane)	2.04	U
76-44-8	Heptachlor	2.04	U
309-00-2	Aldrin	2.04	U
1024-57-3	Heptachlor epoxide (endo)	2.04	U
1024-57-3A	Heptachlor epoxide (exo)	2.04	U
959-98-8	Endosulfan I	2.04	U
60-57-1	Dieldrin	3.97	U
72-55-9	4,4'-DDE	3.97	U
72-20-8	Endrin	3.97	U
33213-65-9	Endosulfan II	3.97	U
72-54-8	4,4'-DDD	3.97	U
1031-07-8	Endosulfan sulfate	3.97	U
50-29-3	4,4'-DDT	3.97	U
72-43-5	Methoxychlor	20.4	U
53494-70-5	Endrin ketone	3.97	U
111-11-3	Endrin Aldehyde	3.97	U
5103-71-9	alpha-Chlordane	2.04	U
5103-74-2	gamma-Chlordane	2.04	U
8001-35-2	Toxaphene	204	U
12674-11-2	Aroclor-1016	39.7	U
11104-28-2	Aroclor-1221	80.6	U
11141-16-5	Aroclor-1232	39.7	U
53469-21-9	Aroclor-1242	39.7	U
12672-29-6	Aroclor-1248	39.7	U
11097-69-1	Aroclor-1254	39.7	U
11096-82-5	Aroclor-1260	39.7	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.03(g/mL) G Lab File ID: E0229-2DB608081
% Moisture: 33.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.54	U
319-85-7	beta-BHC	2.54	U
319-86-8	delta-BHC	2.54	U
58-89-9	gamma-BHC (Lindane)	2.54	U
76-44-8	Heptachlor	2.54	U
309-00-2	Aldrin	2.54	U
1024-57-3	Heptachlor epoxide (endo)	2.54	U
1024-57-3A	Heptachlor epoxide (exo)	2.54	U
959-98-8	Endosulfan I	2.54	U
60-57-1	Dieldrin	4.94	U
72-55-9	4,4'-DDE	4.94	U
72-20-8	Endrin	4.94	U
33213-65-9	Endosulfan II	4.94	U
72-54-8	4,4'-DDD	4.94	U
1031-07-8	Endosulfan sulfate	4.94	U
50-29-3	4,4'-DDT	4.94	U
72-43-5	Methoxychlor	25.4	U
53494-70-5	Endrin ketone	4.94	U
111-11-3	Endrin Aldehyde	4.94	U
5103-71-9	alpha-Chlordane	2.54	U
5103-74-2	gamma-Chlordane	2.54	U
8001-35-2	Toxaphene	254	U
12674-11-2	Aroclor-1016	49.4	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	49.4	U
53469-21-9	Aroclor-1242	49.4	U
12672-29-6	Aroclor-1248	49.4	U
11097-69-1	Aroclor-1254	49.4	U
11096-82-5	Aroclor-1260	49.4	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.01(g/mL) G Lab File ID: E0229-2DB608075
% Moisture: 15.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.00	U
319-85-7	beta-BHC	2.00	U
319-86-8	delta-BHC	2.00	U
58-89-9	gamma-BHC (Lindane)	2.00	U
76-44-8	Heptachlor	2.00	U
309-00-2	Aldrin	2.00	U
1024-57-3	Heptachlor epoxide (endo)	2.00	U
1024-57-3A	Heptachlor epoxide (exo)	2.00	U
959-98-8	Endosulfan I	2.00	U
60-57-1	Dieldrin	3.89	U
72-55-9	4,4'-DDE	3.89	U
72-20-8	Endrin	3.89	U
33213-65-9	Endosulfan II	3.89	U
72-54-8	4,4'-DDD	3.89	U
1031-07-8	Endosulfan sulfate	3.89	U
50-29-3	4,4'-DDT	3.89	U
72-43-5	Methoxychlor	20.0	U
53494-70-5	Endrin ketone	3.89	U
111-11-3	Endrin Aldehyde	3.89	U
5103-71-9	alpha-Chlordane	2.00	U
5103-74-2	gamma-Chlordane	2.00	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38.9	U
11104-28-2	Aroclor-1221	78.9	U
11141-16-5	Aroclor-1232	38.9	U
53469-21-9	Aroclor-1242	38.9	U
12672-29-6	Aroclor-1248	38.9	U
11097-69-1	Aroclor-1254	38.9	U
11096-82-5	Aroclor-1260	38.9	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.11(g/mL) G Lab File ID: E0229-2DB608082
% Moisture: 18.50 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.08	U
319-85-7	beta-BHC	2.08	U
319-86-8	delta-BHC	2.08	U
58-89-9	gamma-BHC (Lindane)	2.08	U
76-44-8	Heptachlor	2.08	U
309-00-2	Aldrin	2.08	U
1024-57-3	Heptachlor epoxide (endo)	2.08	U
1024-57-3A	Heptachlor epoxide (exo)	2.08	U
959-98-8	Endosulfan I	2.08	U
60-57-1	Dieldrin	4.03	U
72-55-9	4,4'-DDE	4.03	U
72-20-8	Endrin	4.03	U
33213-65-9	Endosulfan II	4.03	U
72-54-8	4,4'-DDD	4.03	U
1031-07-8	Endosulfan sulfate	4.03	U
50-29-3	4,4'-DDT	4.03	U
72-43-5	Methoxychlor	20.8	U
53494-70-5	Endrin ketone	4.03	U
111-11-3	Endrin Aldehyde	4.03	U
5103-71-9	alpha-Chlordane	2.08	U
5103-74-2	gamma-Chlordane	2.08	U
8001-35-2	Toxaphene	208	U
12674-11-2	Aroclor-1016	40.3	U
11104-28-2	Aroclor-1221	81.9	U
11141-16-5	Aroclor-1232	40.3	U
53469-21-9	Aroclor-1242	40.3	U
12672-29-6	Aroclor-1248	40.3	U
11097-69-1	Aroclor-1254	40.3	U
11096-82-5	Aroclor-1260	40.3	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.00(g/mL) G Lab File ID: E0229-2DB608083
% Moisture: 7.60 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.84	U
319-85-7	beta-BHC	1.84	U
319-86-8	delta-BHC	1.84	U
58-89-9	gamma-BHC (Lindane)	1.84	U
76-44-8	Heptachlor	1.84	U
309-00-2	Aldrin	1.84	U
1024-57-3	Heptachlor epoxide (endo)	1.84	U
1024-57-3A	Heptachlor epoxide (exo)	1.84	U
959-98-8	Endosulfan I	1.84	U
60-57-1	Dieldrin	3.57	U
72-55-9	4,4'-DDE	3.57	U
72-20-8	Endrin	3.57	U
33213-65-9	Endosulfan II	3.57	U
72-54-8	4,4'-DDD	3.57	U
1031-07-8	Endosulfan sulfate	3.57	U
50-29-3	4,4'-DDT	3.57	U
72-43-5	Methoxychlor	18.4	U
53494-70-5	Endrin ketone	3.57	U
111-11-3	Endrin Aldehyde	3.57	U
5103-71-9	alpha-Chlordane	1.84	U
5103-74-2	gamma-Chlordane	1.84	U
8001-35-2	Toxaphene	184	U
12674-11-2	Aroclor-1016	35.7	U
11104-28-2	Aroclor-1221	72.5	U
11141-16-5	Aroclor-1232	35.7	U
53469-21-9	Aroclor-1242	35.7	U
12672-29-6	Aroclor-1248	35.7	U
11097-69-1	Aroclor-1254	35.7	U
11096-82-5	Aroclor-1260	35.7	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.10(g/mL) G Lab File ID: E0229-2DB608084
% Moisture: 13.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.95	U
319-85-7	beta-BHC	1.95	U
319-86-8	delta-BHC	1.95	U
58-89-9	gamma-BHC (Lindane)	1.95	U
76-44-8	Heptachlor	1.95	U
309-00-2	Aldrin	1.95	U
1024-57-3	Heptachlor epoxide (endo)	1.95	U
1024-57-3A	Heptachlor epoxide (exo)	1.95	U
959-98-8	Endosulfan I	1.95	U
60-57-1	Dieldrin	3.78	U
72-55-9	4,4'-DDE	3.78	U
72-20-8	Endrin	3.78	U
33213-65-9	Endosulfan II	3.78	U
72-54-8	4,4'-DDD	3.78	U
1031-07-8	Endosulfan sulfate	3.78	U
50-29-3	4,4'-DDT	3.78	U
72-43-5	Methoxychlor	19.5	U
53494-70-5	Endrin ketone	3.78	U
111-11-3	Endrin Aldehyde	3.78	U
5103-71-9	alpha-Chlordane	1.95	U
5103-74-2	gamma-Chlordane	1.95	U
8001-35-2	Toxaphene	195	U
12674-11-2	Aroclor-1016	37.8	U
11104-28-2	Aroclor-1221	76.8	U
11141-16-5	Aroclor-1232	37.8	U
53469-21-9	Aroclor-1242	37.8	U
12672-29-6	Aroclor-1248	37.8	U
11097-69-1	Aroclor-1254	37.8	U
11096-82-5	Aroclor-1260	37.8	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.24(g/mL) G Lab File ID: E0229-2DB608085
% Moisture: 6.50 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.80	U
319-85-7	beta-BHC	1.80	U
319-86-8	delta-BHC	1.80	U
58-89-9	gamma-BHC (Lindane)	1.80	U
76-44-8	Heptachlor	1.80	U
309-00-2	Aldrin	1.80	U
1024-57-3	Heptachlor epoxide (endo)	1.80	U
1024-57-3A	Heptachlor epoxide (exo)	1.80	U
959-98-8	Endosulfan I	1.80	U
60-57-1	Dieldrin	3.50	U
72-55-9	4,4'-DDE	3.50	U
72-20-8	Endrin	3.50	U
33213-65-9	Endosulfan II	3.50	U
72-54-8	4,4'-DDD	3.50	U
1031-07-8	Endosulfan sulfate	3.50	U
50-29-3	4,4'-DDT	3.50	U
72-43-5	Methoxychlor	18.0	U
53494-70-5	Endrin ketone	3.50	U
111-11-3	Endrin Aldehyde	3.50	U
5103-71-9	alpha-Chlordane	1.80	U
5103-74-2	gamma-Chlordane	1.80	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35.0	U
11104-28-2	Aroclor-1221	71.1	U
11141-16-5	Aroclor-1232	35.0	U
53469-21-9	Aroclor-1242	35.0	U
12672-29-6	Aroclor-1248	35.0	U
11097-69-1	Aroclor-1254	35.0	U
11096-82-5	Aroclor-1260	35.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.25(g/mL) G Lab File ID: E0229-2DB608086
% Moisture: 7.70 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.83	U
319-85-7	beta-BHC	1.83	U
319-86-8	delta-BHC	1.83	U
58-89-9	gamma-BHC (Lindane)	1.83	U
76-44-8	Heptachlor	1.83	U
309-00-2	Aldrin	1.83	U
1024-57-3	Heptachlor epoxide (endo)	1.83	U
1024-57-3A	Heptachlor epoxide (exo)	1.83	U
959-98-8	Endosulfan I	1.83	U
60-57-1	Dieldrin	3.55	U
72-55-9	4,4'-DDE	3.55	U
72-20-8	Endrin	3.55	U
33213-65-9	Endosulfan II	3.55	U
72-54-8	4,4'-DDD	3.55	U
1031-07-8	Endosulfan sulfate	3.55	U
50-29-3	4,4'-DDT	3.55	U
72-43-5	Methoxychlor	18.3	U
53494-70-5	Endrin ketone	3.55	U
111-11-3	Endrin Aldehyde	3.55	U
5103-71-9	alpha-Chlordane	1.83	U
5103-74-2	gamma-Chlordane	1.83	U
8001-35-2	Toxaphene	183	U
12674-11-2	Aroclor-1016	35.5	U
11104-28-2	Aroclor-1221	72.0	U
11141-16-5	Aroclor-1232	35.5	U
53469-21-9	Aroclor-1242	35.5	U
12672-29-6	Aroclor-1248	35.5	U
11097-69-1	Aroclor-1254	35.5	U
11096-82-5	Aroclor-1260	35.5	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.12(g/mL) G Lab File ID: E0229-2DB608063
% Moisture: 29.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.39	U
319-85-7	beta-BHC	2.39	U
319-86-8	delta-BHC	2.39	U
58-89-9	gamma-BHC (Lindane)	2.39	U
76-44-8	Heptachlor	2.39	U
309-00-2	Aldrin	2.39	U
1024-57-3	Heptachlor epoxide (endo)	2.39	U
1024-57-3A	Heptachlor epoxide (exo)	2.39	U
959-98-8	Endosulfan I	2.39	U
60-57-1	Dieldrin	4.64	U
72-55-9	4,4'-DDE	4.64	U
72-20-8	Endrin	4.64	U
33213-65-9	Endosulfan II	4.64	U
72-54-8	4,4'-DDD	4.64	U
1031-07-8	Endosulfan sulfate	4.64	U
50-29-3	4,4'-DDT	4.64	U
72-43-5	Methoxychlor	23.9	U
53494-70-5	Endrin ketone	4.64	U
111-11-3	Endrin Aldehyde	4.64	U
5103-71-9	alpha-Chlordane	2.39	U
5103-74-2	gamma-Chlordane	2.39	U
8001-35-2	Toxaphene	239	U
12674-11-2	Aroclor-1016	46.4	U
11104-28-2	Aroclor-1221	94.1	U
11141-16-5	Aroclor-1232	46.4	U
53469-21-9	Aroclor-1242	46.4	U
12672-29-6	Aroclor-1248	46.4	U
11097-69-1	Aroclor-1254	46.4	U
11096-82-5	Aroclor-1260	46.4	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.28(g/mL) G Lab File ID: E0229-2DB608064
% Moisture: 29.60 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.39	U
319-85-7	beta-BHC	2.39	U
319-86-8	delta-BHC	2.39	U
58-89-9	gamma-BHC (Lindane)	2.39	U
76-44-8	Heptachlor	2.39	U
309-00-2	Aldrin	2.39	U
1024-57-3	Heptachlor epoxide (endo)	2.39	U
1024-57-3A	Heptachlor epoxide (exo)	2.39	U
959-98-8	Endosulfan I	2.39	U
60-57-1	Dieldrin	4.64	U
72-55-9	4,4'-DDE	4.64	U
72-20-8	Endrin	4.64	U
33213-65-9	Endosulfan II	4.64	U
72-54-8	4,4'-DDD	4.64	U
1031-07-8	Endosulfan sulfate	4.64	U
50-29-3	4,4'-DDT	4.64	U
72-43-5	Methoxychlor	23.9	U
53494-70-5	Endrin ketone	4.64	U
111-11-3	Endrin Aldehyde	4.64	U
5103-71-9	alpha-Chlordane	2.39	U
5103-74-2	gamma-Chlordane	2.39	U
8001-35-2	Toxaphene	239	U
12674-11-2	Aroclor-1016	46.4	U
11104-28-2	Aroclor-1221	94.3	U
11141-16-5	Aroclor-1232	46.4	U
53469-21-9	Aroclor-1242	46.4	U
12672-29-6	Aroclor-1248	46.4	U
11097-69-1	Aroclor-1254	46.4	U
11096-82-5	Aroclor-1260	46.4	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.20(g/mL) G Lab File ID: E0229-2DB608065
% Moisture: 9.40 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.86	U
319-85-7	beta-BHC	1.86	U
319-86-8	delta-BHC	1.86	U
58-89-9	gamma-BHC (Lindane)	1.86	U
76-44-8	Heptachlor	1.86	U
309-00-2	Aldrin	1.86	U
1024-57-3	Heptachlor epoxide (endo)	1.86	U
1024-57-3A	Heptachlor epoxide (exo)	1.86	U
959-98-8	Endosulfan I	1.86	U
60-57-1	Dieldrin	3.62	U
72-55-9	4,4'-DDE	3.62	U
72-20-8	Endrin	3.62	U
33213-65-9	Endosulfan II	3.62	U
72-54-8	4,4'-DDD	3.62	U
1031-07-8	Endosulfan sulfate	3.62	U
50-29-3	4,4'-DDT	3.62	U
72-43-5	Methoxychlor	18.6	U
53494-70-5	Endrin ketone	3.62	U
111-11-3	Endrin Aldehyde	3.62	U
5103-71-9	alpha-Chlordane	1.86	U
5103-74-2	gamma-Chlordane	1.86	U
8001-35-2	Toxaphene	186	U
12674-11-2	Aroclor-1016	36.2	U
11104-28-2	Aroclor-1221	73.5	U
11141-16-5	Aroclor-1232	36.2	U
53469-21-9	Aroclor-1242	36.2	U
12672-29-6	Aroclor-1248	36.2	U
11097-69-1	Aroclor-1254	36.2	U
11096-82-5	Aroclor-1260	36.2	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.00(g/mL) G Lab File ID: E0229-2DB608066
% Moisture: 0.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.70	U
319-85-7	beta-BHC	1.70	U
319-86-8	delta-BHC	1.70	U
58-89-9	gamma-BHC (Lindane)	1.70	U
76-44-8	Heptachlor	1.70	U
309-00-2	Aldrin	1.70	U
1024-57-3	Heptachlor epoxide (endo)	1.70	U
1024-57-3A	Heptachlor epoxide (exo)	1.70	U
959-98-8	Endosulfan I	1.70	U
60-57-1	Dieldrin	3.31	U
72-55-9	4,4'-DDE	3.31	U
72-20-8	Endrin	3.31	U
33213-65-9	Endosulfan II	3.31	U
72-54-8	4,4'-DDD	3.31	U
1031-07-8	Endosulfan sulfate	3.31	U
50-29-3	4,4'-DDT	3.31	U
72-43-5	Methoxychlor	17.0	U
53494-70-5	Endrin ketone	3.31	U
111-11-3	Endrin Aldehyde	3.31	U
5103-71-9	alpha-Chlordane	1.70	U
5103-74-2	gamma-Chlordane	1.70	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33.1	U
11104-28-2	Aroclor-1221	67.1	U
11141-16-5	Aroclor-1232	33.1	U
53469-21-9	Aroclor-1242	33.1	U
12672-29-6	Aroclor-1248	33.1	U
11097-69-1	Aroclor-1254	33.1	U
11096-82-5	Aroclor-1260	33.1	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.07(g/mL) G Lab File ID: E0229-2DB608067
% Moisture: 8.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.85	U
319-85-7	beta-BHC	1.85	U
319-86-8	delta-BHC	1.85	U
58-89-9	gamma-BHC (Lindane)	1.85	U
76-44-8	Heptachlor	1.85	U
309-00-2	Aldrin	1.85	U
1024-57-3	Heptachlor epoxide (endo)	1.85	U
1024-57-3A	Heptachlor epoxide (exo)	1.85	U
959-98-8	Endosulfan I	1.85	U
60-57-1	Dieldrin	3.59	U
72-55-9	4,4'-DDE	3.59	U
72-20-8	Endrin	3.59	U
33213-65-9	Endosulfan II	3.59	U
72-54-8	4,4'-DDD	3.59	U
1031-07-8	Endosulfan sulfate	3.59	U
50-29-3	4,4'-DDT	3.59	U
72-43-5	Methoxychlor	18.5	U
53494-70-5	Endrin ketone	3.59	U
111-11-3	Endrin Aldehyde	3.59	U
5103-71-9	alpha-Chlordane	1.85	U
5103-74-2	gamma-Chlordane	1.85	U
8001-35-2	Toxaphene	185	U
12674-11-2	Aroclor-1016	35.9	U
11104-28-2	Aroclor-1221	72.8	U
11141-16-5	Aroclor-1232	35.9	U
53469-21-9	Aroclor-1242	35.9	U
12672-29-6	Aroclor-1248	35.9	U
11097-69-1	Aroclor-1254	35.9	U
11096-82-5	Aroclor-1260	35.9	U

S - CUBED

Trace Inorganics Report

Client: WHC
Project: Site Wide Soil II
Sampling Date: 02/27/92

Analyts: PA
Review : CN 3/5/92
Receipt. Date: 02/29/92

Analyte: Si Matrix: Soil Units: mg/kg

S - CUBED Sample No.	Client Sample ID	Concentration	MDL
28312	B0137	53.13	6.010
28314	B0139	94.54	7.474
28315	B0140	110.90	5.889
28316	B0141	11.23	6.135
28317	B0142	75.43	5.411
28318	B0143	119.85	5.754
28319	B0144	34.60	5.348
283110	B0145	33.26	5.417
283111	B0146	682.02	7.052
283112	B0147	1206.89	7.102
283113	B0148	226.07	5.513
283115	B0150	113.45	5.447
283116	B0153	28.96	5.107

Method Detection Limit: 1000 ug/L
Preparation Method: 370.1
Analytical Method: 370.1
Preparation Date: 03/04/92
Analysis Date: 03/04/92

Comments:

All QC data and holding time were met.

AMMONIA ANALYSIS

LABORATORY:	S-CUBED	DATA REVIEWER:	CW 3/6/92
PROJECT:	WHC	PROJECT REVIEWER:	
CLIENT:	SITE WIDE SOIL	CHARGE #:	32359-14
LOT #:	2831	DATE SAMPLED:	02/27/92
FILE NAME:	NH32831	DATE RECEIVED:	02/29/92
DISK NAME:	NH31024	PREP DATE:	03/03/92
METHOD:	350.3	DATE ANALYZED:	03/03/92
		MATRIX:	SOIL

LAB ID	CONCENTRATION, mg/kg
2831 -2	13.4
2831 -4	9.80
2831 -5	0.71
2831 -6	0.96
2831 -7	1.14
2831 -8	2.24
2831 -9	2.57
2831 -10	1.68
2831 -11	< 0.2
2831 -12	< 0.2
2831 -13	< 0.2
2831 -15	< 0.2
2831 -16	3.01

ALKALINITY ANALYSIS

LAB: S-CUBED
CLIENT: WHC
CASE: SITE WIDE SOIL
LOT #: 2831
FILE #: ALKs2831
DISK #: ALK1016
METHOD NO.: EPA 310.1

DATA REVIEWER: WN 3/9/92
PROJECT REVIEWER:
CHARGE #: 32359-14
DATE RECIEVED: 02/29/92
DATE PREP: 03/05/92
DATE ANALYZED: 03/05/92
MATRIX: SOIL

RESULTS: RESULTS AS DRY WEIGHT - MG/KG

LAB ID	CONCENTRATION
2831 -2	1100
2831 -4	150000
2831 -5	907
2831 -6	1580
2831 -7	673
2831 -8	768
2831 -9	686
2831 -10	1910
2831 -11	15100
2831 -12	11300
2831 -13	1200
2831 -15	434
2831 -16	601

COMMENTS:

ANIONS ANALYSIS

LABORATORY: S-CUBED
CLIENT: WHC
CASE: Site Wide Soil II
LOT #: 2831
FILE#: ANI2831
DISK#: ANI0306
METHOD NO.: 300.0

DATA REVIEWER: ~~ww~~ 3/9/92
PROJECT REVIEWER:
CHARGE #: 32359-14
DATE SAMPLED: 02/27/92
DATE PREP: 3/4-~~3/5~~ ~~ww~~
DATE ANALYZED: 3/4-3/5
MATRIX: SOIL

RESULTS: UNIT AS MG/KG DRY WEIGHT

LAB ID	F	CL	NO	NO	O-PO4	SO4
2831 -2	0.94	3.07	0.54	10.3	20.7	1.70
2831 -4	< 2	1.00	36.5	585	18.8	12600
2831 -5	0.94	0.88	< 0.3	12.4	3.13	13.5
2831 -6	1.20	1.06	0.54	7.11	4.51	4.67
2831 -7	0.84	0.39	< 0.3	2.70	7.36	1.12
2831 -8	1.00	0.53	< 0.3	3.13	9.21	5.81
2831 -9	0.72	1.28	0.6	66.3	21.3	29.1
2831 -10	0.68	0.56	< 0.3	6.12	3.40	6.18
2831 -11	0.95	0.52	< 0.3	21.0	23.4	5.05
2831 -12	1.19	0.55	< 0.3	30.5	18.2	6.44
2831 -13	1.79	0.71	< 0.3	53.9	18.3	12.7
2831 -15	0.87	2.52	< 0.3	2.60	6.75	2.06
2831 -16	1.18	8.94	< 0.2	23.0	< 0.6	56.2

MAXWELL
S-CUBED

ANALYTE:	TOC	CALIBRATION			QC SUMMARY		
METHOD REF.:	9060	STD 2000ppm	1997		CONC.	OBSERVE	%REC.
DATE:	3/3/92	STD 400ppm	397	MS	200	203.7	101.85
ANALYST:	AF/MM	STD 10ppm	10.10	LCS	2000	1994	99.7
MATRIX:	Soil	CAL BLANK	.084				
SAMPLE ALIQ.:	10mg						
UNIT:	mg/kg						
SDG:	2831						
PROJ.NAME:	site wide II						

SAMPLE ID.	TOC Reading	DIL. FACTOR	TOC CONC. (mg/kg)	%MOIST.	FINAL CONC. (mg/kg)
EBS0303	1.086	1	4.344	0	4.34
LCS0303	1994	1	7976	0.00	7976.00
2831-2	446	10	17840	16.80	21442.31
2831-4	862.3	10	34492	33.20	51634.73
2831-4MS	1066	10	42640	33.20	63832.34
2831-5	419.7	10	16788	15.10	19773.85
2831-6	280	10	11200	18.50	13742.33
2831-7	161.5	10	6460	7.60	6991.34
2831-8	267.8	10	10712	13.10	12326.81
2831-9	174.2	10	6968	6.50	7452.41
2831-10	122.95	10	4918	7.70	5328.28
2831-11	299.3	10	11972	29.10	16885.75
2831-12	416.95	10	16678	29.60	23690.34
2831-13	210.5	10	8420	9.40	9293.60
2831-14	92.36	10	3694.4	0.20	3701.80
2831-15	176	10	7040	8.20	7668.85

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-2

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-2

Level (low/med): LOW Date Received: 02/29/92

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	29.1		N	P
7440-38-2	Arsenic	4.0			F
7440-39-3	Barium	144			P
7440-41-7	Beryllium	1.7			P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	4980			P
7440-47-3	Chromium	21.6			P
7440-48-4	Cobalt	17.5			P
7440-50-8	Copper	24.8			P
7439-89-6	Iron	29600			P
7439-92-1	Lead	38.2			P
7439-95-4	Magnesium	5050			P
7439-96-5	Manganese	668		N	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	24.0			P
7440-09-7	Potassium	3610			P
7782-49-2	Selenium	0.96	U		F
7440-22-4	Silver	6.0			P
7440-23-5	Sodium	272	B		P
7440-28-0	Thallium	0.72	U		F
7440-62-2	Vanadium	64.7			P
7440-66-6	Zinc	60.6			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0136

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-2

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-2

Level (low/med): LOW Date Received: 02/29/92

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.3			P
7440-32-6	Titanium	1520			P
7440-67-7	Zirconium	27.2		N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0136

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03

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-4

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-4

Level (low/med): LOW Date Received: 02/29/92

% Solids: 66.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7600			P
7440-36-0	Antimony	17.4	U	N	P
7440-38-2	Arsenic	3.1			F
7440-39-3	Barium	190			P
7440-41-7	Beryllium	0.90	B		P
7440-43-9	Cadmium	0.90	U		P
7440-70-2	Calcium	105000			P
7440-47-3	Chromium	7.2			P
7440-48-4	Cobalt	8.1	B		P
7440-50-8	Copper	19.5			P
7439-89-6	Iron	14800			P
7439-92-1	Lead	12.0			P
7439-95-4	Magnesium	32300			P
7439-96-5	Manganese	518		N	P
7439-97-6	Mercury	0.15	U		CV
7440-02-0	Nickel	12.3			P
7440-09-7	Potassium	6410			P
7782-49-2	Selenium	1.2	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	5120			P
7440-28-0	Thallium	0.90	U		F
7440-62-2	Vanadium	30.5			P
7440-66-6	Zinc	50.0			P

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0139

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-4

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-4

Level (low/med): LOW Date Received: 02/29/92

% Solids: 66.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.2	U		P
7440-32-6	Titanium	808			P
7440-67-7	Zirconium	29.9	U	N	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0139

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05

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-5

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-5

Level (low/med): LOW Date Received: 02/29/92

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9940			P
7440-36-0	Antimony	13.7	U	N	P
7440-38-2	Arsenic	7.7			F
7440-39-3	Barium	88.8			P
7440-41-7	Beryllium	0.94	B		P
7440-43-9	Cadmium	3.1			P
7440-70-2	Calcium	5650			P
7440-47-3	Chromium	19.6			P
7440-48-4	Cobalt	10.1	B		P
7440-50-8	Copper	31.8			P
7439-89-6	Iron	20300			P
7439-92-1	Lead	67.4			P
7439-95-4	Magnesium	5110			P
7439-96-5	Manganese	297		N	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	20.0			P
7440-09-7	Potassium	2020			P
7782-49-2	Selenium	0.94	U		F
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	273	B		P
7440-28-0	Thallium	0.71	U		F
7440-62-2	Vanadium	43.6			P
7440-66-6	Zinc	356			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0140

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-5

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-5

Level (low/med): LOW Date Received: 02/29/92

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.3	U		P
7440-32-6	Titanium	1010			P
7440-67-7	Zirconium	23.6	U	N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0140

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-6

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-6

Level (low/med): LOW Date Received: 02/29/92

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	14.2	U	N	P
7440-38-2	Arsenic	27.7			F
7440-39-3	Barium	90.8			P
7440-41-7	Beryllium	0.98	B		P
7440-43-9	Cadmium	2.9			P
7440-70-2	Calcium	5820			P
7440-47-3	Chromium	20.4			P
7440-48-4	Cobalt	10.6	B		P
7440-50-8	Copper	32.9			P
7439-89-6	Iron	20800			P
7439-92-1	Lead	74.1			P
7439-95-4	Magnesium	5250			P
7439-96-5	Manganese	304		N	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	19.9			P
7440-09-7	Potassium	2100			P
7782-49-2	Selenium	0.98	U		F
7440-22-4	Silver	2.5	U		P
7440-23-5	Sodium	263	B		P
7440-28-0	Thallium	0.74	U		F
7440-62-2	Vanadium	44.7			P
7440-66-6	Zinc	366			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0141

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-6

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-6

Level (low/med): LOW Date Received: 02/29/92

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.4	U		P
7440-32-6	Titanium	1000			P
7440-67-7	Zirconium	24.5	U	N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0141

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-7

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-7

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6170			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	2.4			F
7440-39-3	Barium	76.0			P
7440-41-7	Beryllium	0.87	B		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	3590			P
7440-47-3	Chromium	7.1			P
7440-48-4	Cobalt	9.5	B		P
7440-50-8	Copper	8.9			P
7439-89-6	Iron	20900			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	3550			P
7439-96-5	Manganese	333		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	10.8			P
7440-09-7	Potassium	1440			P
7782-49-2	Selenium	0.87	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	214	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	50.0			P
7440-66-6	Zinc	43.3			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0142

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-7

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-7

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	1730			P
7440-67-7	Zirconium	21.6	U	N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0142

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EPA SAMPLE NO.

2831-8

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-8

Level (low/med): LOW Date Received: 02/29/92

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10400			P
7440-36-0	Antimony	13.3	U	N	P
7440-38-2	Arsenic	7.0			F
7440-39-3	Barium	113			P
7440-41-7	Beryllium	1.2			P
7440-43-9	Cadmium	0.69	U		P
7440-70-2	Calcium	4210			P
7440-47-3	Chromium	13.6			P
7440-48-4	Cobalt	11.3	B		P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	26900			P
7439-92-1	Lead	35.4			P
7439-95-4	Magnesium	4510			P
7439-96-5	Manganese	463		N	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	2550			P
7782-49-2	Selenium	0.92	U		F
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	227	U		P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	61.4			P
7440-66-6	Zinc	62.8			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0143

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-8

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-8

Level (low/med): LOW Date Received: 02/29/92

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.2	U		P
7440-32-6	Titanium	1930			P
7440-67-7	Zirconium	26.2		N	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0143

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EPA SAMPLE NO.

2831-9

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-9

Level (low/med): LOW Date Received: 02/29/92

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6610			P
7440-36-0	Antimony	12.4	U	N	P
7440-38-2	Arsenic	3.1			F
7440-39-3	Barium	62.0			P
7440-41-7	Beryllium	0.64	B		P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	3490			P
7440-47-3	Chromium	12.8			P
7440-48-4	Cobalt	6.4	B		P
7440-50-8	Copper	10.3			P
7439-89-6	Iron	14100			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	4110			P
7439-96-5	Manganese	289		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	13.5			P
7440-09-7	Potassium	1790			P
7782-49-2	Selenium	0.86	U		F
7440-22-4	Silver	2.1	U		P
7440-23-5	Sodium	211	U		P
7440-28-0	Thallium	0.64	U		F
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	38.3			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0144

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-9

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-9

Level (low/med): LOW Date Received: 02/29/92

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	642			P
7440-67-7	Zirconium	21.4	U	N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0144

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EPA SAMPLE NO.

2831-10

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-10

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6390			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	3.7			F
7440-39-3	Barium	66.5			P
7440-41-7	Beryllium	0.65	B		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	5110			P
7440-47-3	Chromium	12.4			P
7440-48-4	Cobalt	6.9	B		P
7440-50-8	Copper	11.1			P
7439-89-6	Iron	14400			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	4270			P
7439-96-5	Manganese	288		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	14.3			P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	0.87	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	214	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	26.0			P
7440-66-6	Zinc	38.8			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0145

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-10

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-10

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	633			P
7440-67-7	Zirconium	21.7	U	N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0145

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-11

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-11

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28800			P
7440-36-0	Antimony	16.4	U	N	P
7440-38-2	Arsenic	5.0			F
7440-39-3	Barium	241			P
7440-41-7	Beryllium	2.5			P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium	13900			P
7440-47-3	Chromium	26.5			P
7440-48-4	Cobalt	26.0			P
7440-50-8	Copper	40.3			P
7439-89-6	Iron	53600			P
7439-92-1	Lead	26.5			P
7439-95-4	Magnesium	9960			P
7439-96-5	Manganese	1100		N	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	31.3			P
7440-09-7	Potassium	7900			P
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	336	B		P
7440-28-0	Thallium	0.85	U		F
7440-62-2	Vanadium	90.3			P
7440-66-6	Zinc	103			P

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0146

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-11

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-11

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.9	U		P
7440-32-6	Titanium	2550			P
7440-67-7	Zirconium	73.3		N	P

Color Before: BLACK Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0146

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-12

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-12

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22900			P
7440-36-0	Antimony	17.9		N	P
7440-38-2	Arsenic	5.4			F
7440-39-3	Barium	241			P
7440-41-7	Beryllium	2.3			P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium	12300			P
7440-47-3	Chromium	22.7			P
7440-48-4	Cobalt	25.3			P
7440-50-8	Copper	39.8			P
7439-89-6	Iron	48300			P
7439-92-1	Lead	19.9			P
7439-95-4	Magnesium	9120			P
7439-96-5	Manganese	1110		N	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	28.7			P
7440-09-7	Potassium	7130			P
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	284	B		P
7440-28-0	Thallium	0.85	U		F
7440-62-2	Vanadium	82.1			P
7440-66-6	Zinc	95.5			P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0147

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-12

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-12

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.0	U		P
7440-32-6	Titanium	2040			P
7440-67-7	Zirconium	59.7		N	P

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0147

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-13

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-13

Level (low/med): LOW Date Received: 02/29/92

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9980			P
7440-36-0	Antimony	12.8	U	N	P
7440-38-2	Arsenic	2.5			F
7440-39-3	Barium	118			P
7440-41-7	Beryllium	1.1			P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	4240			P
7440-47-3	Chromium	12.4			P
7440-48-4	Cobalt	12.1			P
7440-50-8	Copper	12.4			P
7439-89-6	Iron	24900			P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	4190			P
7439-96-5	Manganese	459		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	13.9			P
7440-09-7	Potassium	2320			P
7782-49-2	Selenium	0.88	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	218	U		P
7440-28-0	Thallium	0.66	U		F
7440-62-2	Vanadium	58.1			P
7440-66-6	Zinc	50.8			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0148

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1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-13

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-13

Level (low/med): LOW Date Received: 02/29/92

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.1	U		P
7440-32-6	Titanium	1670			P
7440-67-7	Zirconium	27.2		N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0148

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-15

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-15

Level (low/med): LOW Date Received: 02/29/92

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6340			P
7440-36-0	Antimony	12.6	U	N	P
7440-38-2	Arsenic	2.6			F
7440-39-3	Barium	86.9			P
7440-41-7	Beryllium	0.87	B		P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	3570			P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	10.0	B		P
7440-50-8	Copper	10.0			P
7439-89-6	Iron	20900			P
7439-92-1	Lead	7.8			P
7439-95-4	Magnesium	3420			P
7439-96-5	Manganese	381		N	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	9.6			P
7440-09-7	Potassium	1530			P
7782-49-2	Selenium	0.87	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	215	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	47.1			P
7440-66-6	Zinc	44.4			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0150

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-15

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-15

Level (low/med): LOW Date Received: 02/29/92

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.1	U		P
7440-32-6	Titanium	1560			P
7440-67-7	Zirconium	22.4		N	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0150

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-16

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-16

Level (low/med): LOW Date Received: 02/29/92

% Solids: 97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7870			P
7440-36-0	Antimony	11.8	U	N	P
7440-38-2	Arsenic	6.5			F
7440-39-3	Barium	132			P
7440-41-7	Beryllium	1.0			P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	2880			P
7440-47-3	Chromium	10.0			P
7440-48-4	Cobalt	8.0	B		P
7440-50-8	Copper	9.8			P
7439-89-6	Iron	22300			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	3600			P
7439-96-5	Manganese	201		N	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.5	B		P
7440-09-7	Potassium	1500			P
7782-49-2	Selenium	1.2			F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	202	U		P
7440-28-0	Thallium	0.61	U		F
7440-62-2	Vanadium	53.9			P
7440-66-6	Zinc	38.8			P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0153

FORM I - IN

7/88

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-16

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-16

Level (low/med): LOW Date Received: 02/29/92

% Solids: 97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	2.9	U	-	P
7440-32-6	Titanium	1070			P
7440-67-7	Zirconium	24.1		J	P

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0153

FORM I - IN

7/88

OSM ORGANIC DATA ASSESSMENT

DATE 3-24-92

REVIEWED BY Ted Washington for TW

LABORATORY S-cubed

CASE # ~~2831~~ sitewide soils

SDG # 2831

SAMPLES/MATRIX

B0136	B0141	B0146
B0137	B0142	B0147
B0138	B0143	B0148
B0139	B0144	B0149
B0140	B0145	B0150

-all soils

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)	O		
2. Surrogate Recovery (II)	O		
3. Matrix Spike/ MSD (III)	O		
4. Blanks (IV)	X		
5. GC/MS Tune (V)	O		
6. Calibration (VI-VII; VIII pest)	X		
7. Internal Standards (VIII)	X		
8. Instr. Perform. (IX pest)			
9. Other ( )	O		

O = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: Acceptable with attached qualifiers.

NOTES : HETS numbers found in upper right hand corner, boxed.

Refer to the corresponding attachments for explanation of any problems.

ok to transmit

4/22/92

ORGANIC QC - Holding Times

Name Ted Washington Date 3-24-92

COMMENTS: All Holding time requirements met for volatile analysis.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogates

Name Ted Washington for TW Date 3-24-92

COMMENTS: ALL SURROGATE RECOVERIES WERE IN CONTROL FOR THE VOLATILE ANALYSIS.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name Ted Washington for TW Date 3-24-92

COMMENTS: ALL MATRIX SPIKE AND MATRIX SPIKE DUPLICATE ANALYSIS RESULTS WERE IN CONTROL. SAMPLE B0139 MS WAS USED FOR ANALYSIS.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name Ted Washington for TW Date 3-24-92

COMMENTS: THERE WERE THREE ANALYTES OUT OF CONTROL (METHYLENE CHLORIDE, ACETONE AND 2-BUTANONE). METHYLENE CHLORIDE, AND ACETONE ARE COMMON LABORATORY CONTAMINANTS AND ARE ONLY QUALIFIED IF POSITIVE SAMPLE RESULTS < 10X AMOUNT IN ANY BLANK. 2-BUTANONE IS NOT COMMON THUS A 5X RULE APPLIES.

ACTION: QUALIFIED ALL OUT OF CONTROL ANALYTES AND SAMPLE (U) UNDETECTED AS PER OSM PROTOCOLS.

sample #	constituent	value/qual
ALL SAMPLES	METHYLENE CHLORIDE	U
B0136	ACETONE	U
B0137		
B0138		
B0142		
B0144		
B0146		
B0148		
B0149		
B0150		
B0136	2-BUTANONE	U
B0137		
B0142		
B0143		
B0146		
B0147		
B0148		

sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name Ted Washington FOLTW Date 7-24-92

COMMENTS: ALL GC/MS Tune Requirements were met.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name Ted Washington for TW Date 3-24-92

COMMENTS: THERE WAS ONLY ONE ANALYTE OUT OF CONTROL IN THE CALIBRATION CHECKS. OUT OF CONTROL ANALYTES THAT ARE DETECTED ARE QUALIFIED (J) ESTIMATED; UNDETECTED SAMPLE ANALYTES ARE AUTOMATICALLY QUALIFIED (R) UNUSABLE.

ACTION: QUALIFIED 1,1,2-TRICHLOROETHANE (R) UNUSABLE AS PER OSM PROTOCOLS.

sample #	constituent	value/qual
ALL SAMPLES	1,1,2-TRICHLOROETHANE	R

sample #	constituent	value/qual

ORGANIC QC - Internal Standards

Name Ted Washington Date 3-24-92

COMMENTS: Internal standards affects entire samples. There was one sample out of control (B0139) All other requirements were met.

ACTION: All analytes in out of control samples are qualified (UJ or J) estimated.

sample #	constituent	value/qual
B0139	All analytes except Acetone	UJ
B0139	Acetone	J

sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name Ted Washington Date 3-26-92

COMMENTS: N/A

ACTION: N/A

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name Ted Washington Date 3-24-92

COMMENTS: Acceptable WITH ATTACHED QUALIFIERS.
No TIC's were detected in any of the samples.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0136

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-1
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH311
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 0.00 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~5~~	~~J B~~ U
67-64-1	Acetone	46	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	22	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	~~U~~ R
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

for TW 4/22/92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH312
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 16.80 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	13	~~B~~ U
67-64-1	Acetone	75	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	29	~~U~~ U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	~~U~~ R
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	4 ~~5 4~~	J ~~J~~
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

4/22/92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0138

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-3
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH313
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 19.10 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	8	~~J~~ ~~B~~ U
67-64-1	Acetone	81	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	~~U~~ A
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

JS for TU 4/22/92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH314
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 33.20 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	15	~~U~~ UJ
74-83-9	Bromomethane	15	~~U~~ UJ
75-01-4	Vinyl Chloride	15	~~U~~ UJ
75-00-3	Chloroethane	15	~~U~~ UJ
75-09-2	Methylene Chloride	13	~~JB~~ UJ
67-64-1	Acetone	110	J
75-15-0	Carbon Disulfide	15	~~U~~ UJ
75-35-4	1,1-Dichloroethene	15	~~U~~
75-34-3	1,1-Dichloroethane	15	~~U~~
540-59-0	1,2-Dichloroethene (total)	15	~~U~~
67-66-3	Chloroform	15	~~U~~
107-06-2	1,2-Dichloroethane	15	~~U~~
78-93-3	2-Butanone	15	~~U~~
71-55-6	1,1,1-Trichloroethane	15	~~U~~
56-23-5	Carbon Tetrachloride	15	~~U~~
75-27-4	Bromodichloromethane	15	~~U~~
78-87-5	1,2-Dichloropropane	15	~~U~~
10061-01-5	cis-1,3-Dichloropropene	15	~~U~~
79-01-6	Trichloroethene	15	~~U~~
124-48-1	Dibromochloromethane	15	~~U~~
79-00-5	1,1,2-Trichloroethane	15	~~U~~ R
71-43-2	Benzene	15	~~U~~
10061-02-6	trans-1,3-Dichloropropene	15	~~U~~
75-25-2	Bromoform	15	~~U~~
108-10-1	4-Methyl-2-pentanone	15	~~U~~
591-78-6	2-Hexanone	15	~~U~~
127-18-4	Tetrachloroethene	15	~~U~~
108-88-3	Toluene	15	~~U~~
79-34-5	1,1,2,2-Tetrachloroethane	15	~~U~~
108-90-7	Chlorobenzene	15	~~U~~
100-41-4	Ethyl Benzene	15	~~U~~
100-42-5	Styrene	15	~~U~~
1330-20-7	Xylene (total)	15	~~U~~ UJ

J Fortw 4/22/92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC315
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 15.10 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~8~~	~~JB~~ U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	~~U~~ R
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

[illegible] FIRW 4/22/92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC316
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 18.50 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	12 ~~10~~	~~JB~~ U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	~~U~~ A
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

J for TCL 4/22/92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No. S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH317
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 7.60 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	14	~~B~~ U
67-64-1	Acetone	50	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	23	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	~~U~~ R
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

for TW 4/22/92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH318
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 13.10 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	21	~~B~~ U
67-64-1	Acetone	12	U
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	31	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	~~U~~ R
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
108-88-3	Toluene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethyl Benzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

4/22/92

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH319
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 6.50 Date Analyzed: 03/02/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	15	~~B~~ U
67-64-1	Acetone	37	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	~~U~~ R
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

JF for TW 4/22/92

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH110
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 7.70 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~7~~	~~JB~~ U
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	~~U~~ K
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

for TU 4/22/92

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH111
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 29.10 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14 ~~9~~	~~JB~~ U
67-64-1	Acetone	33	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	42	~~B~~ U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	~~U~~ R
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethyl Benzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

[illegible] 4/22/92

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH112
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 29.60 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl Chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene Chloride	14	~~JB~~ U
67-64-1	Acetone	14	U
75-15-0	Carbon Disulfide	14	U
75-35-4	1,1-Dichloroethene	14	U
75-34-3	1,1-Dichloroethane	14	U
540-59-0	1,2-Dichloroethene (total)	14	U
67-66-3	Chloroform	14	U
107-06-2	1,2-Dichloroethane	14	U
78-93-3	2-Butanone	33	~~B~~ U
71-55-6	1,1,1-Trichloroethane	14	U
56-23-5	Carbon Tetrachloride	14	U
75-27-4	Bromodichloromethane	14	U
78-87-5	1,2-Dichloropropane	14	U
10061-01-5	cis-1,3-Dichloropropene	14	U
79-01-6	Trichloroethene	14	U
124-48-1	Dibromochloromethane	14	U
79-00-5	1,1,2-Trichloroethane	14	~~U~~ R
71-43-2	Benzene	14	U
10061-02-6	trans-1,3-Dichloropropene	14	U
75-25-2	Bromoform	14	U
108-10-1	4-Methyl-2-pentanone	14	U
591-78-6	2-Hexanone	14	U
127-18-4	Tetrachloroethene	14	U
108-88-3	Toluene	14	U
79-34-5	1,1,2,2-Tetrachloroethane	14	U
108-90-7	Chlorobenzene	14	U
100-41-4	Ethyl Benzene	14	U
100-42-5	Styrene	14	U
1330-20-7	Xylene (total)	14	U

[illegible] 4/22/92

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH113
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 9.40 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~5~~	~~B~~ U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	24	~~B~~ U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	~~U~~ R
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WC114
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 0.20 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~6~~	~~JB~~ U
67-64-1	Acetone	13	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	~~U~~ R
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
108-88-3	Toluene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethyl Benzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

for TU 4/22/92

FORM I VOA 3/90

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SITE WIDE SAS No.: S-CUBED SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 5.00 (g/mL) G Lab File ID: WH115
Level: (low/med) LOW Date Received: 02/29/1992
%Moisture: not dec. 8.20 Date Analyzed: 03/03/1992
GC Column: PACK ID: 2.00 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11 ~~6~~	~~JB~~ U
67-64-1	Acetone	15	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	~~U~~ R
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
108-88-3	Toluene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethyl Benzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

4/22/92

OSM ORGANIC DATA ASSESSMENT

DATE 3-26-92

REVIEWED BY Ted Washington for TW

LABORATORY S-Cubed

CASE # Sitewide soil

SDG # 2831

SAMPLES/MATRIX ~~B0136~~ B0141 B0146 ALL SOILS
~~B0137~~ B0142 B0147
~~B0138~~ B0143 B0148
B0139 B0144 B0149
B0140 B0145 B0150
B0137

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)		O	
2. Surrogate Recovery (II)		O	
3. Matrix Spike/ MSD (III)		X	
4. Blanks (IV)		O	
5. GC/MS Tune (V)		O	
6. Calibration (VI-VII; VIII pest)		M	
7. Internal Standards (VIII)		O	
8. Instr. Perform. (IX pest)			
9. Other ( )		O	

O = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: ~~BATH~~ An analyte was ~~acce~~ found unusable due to the calibration requirements. All other data acceptable with attached qualifiers.

NOTES : HEIS #'s found in upper right hand corner, boxed.

Refer to the corresponding attachments for explanation of any problems.

ok to transmit

4/22/92

ORGANIC QC - Holding Times

Name Ted Washington Date 3-26-92

COMMENTS: ALL Holding Time requirements were met for the semi-volatiles.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogates

Name Ted Washington for TW Date 3-26-92

COMMENTS: All surrogate requirements were met for the semivolatiles.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name Ted Washington Date 3-26-92

COMMENTS: There was one analyte out of control (2,4-Dinitrotoluene), the recovery was slightly above the control limits in MS/MSD analysis. In addition to this 2,4-Dinitrotoluene was undetected in all samples, thus no qualifications were made.

ACTION: None - no actions required

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name Ted Washington for TW Date 3-26-92

COMMENTS: AIC requirements were met for the semi-volatile blanks.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - GC/MS Tune

Name Ted Washington Date 3-26-92

COMMENTS: ALL GC/MS TUNING REQUIREMENTS WERE ~~ARE~~ WITHIN THE CONTROL LIMITS.

ACTION: None - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name Ted Washington for TW Date 3-26-92

COMMENTS: THERE WAS ONLY ONE ANALYTE OUT OF THE CONTROL LIMITS FOR THE %D RESULTS. WHEN THE CALIBRATION REQUIREMENTS ARE NOT MET FOR AN ANALYTE YOU AUTOMATICALLY QUALIFY ALL POSITIVE SAMPLE RESULTS (J) ESTIMATED AND NON-DETECTS SQL'S (R) UNUSABLE.

ACTION: QUALIFIED PYRENE (R) UNUSABLE AS PER OSM PROTOCOLS IN ALL SAMPLES.

sample #	constituent	value/qual
ALL SAMPLES	PYRENE	R

sample #	constituent	value/qual

ORGANIC QC - Internal Standards

Name Ted Washington for TW Date 3-26-92

COMMENTS: ALL INTERNAL STANDARD REQUIREMENTS WERE MET FOR SEMI-VOLATILE.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name Ted Washington Date 3-26-92

COMMENTS: N/A

ACTION: N/A

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name Ted Washington Date 3-26-92

COMMENTS: ACCEPTABLE WITH ATTACHED QUALIFIERS.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFICE
3398 Carmel Mountain Road., San Diego, CA 92121-109
P.O. Box 1620, La Jolla, CA 92038-162

NARRATIVE

DATE: March 10, 1992
REFERENCE NO.: 32359-14, SDG 2831

VOLATILES

Samples were analysed by the CLP VOA procedures. No dilutions or reanalyses were required. Samples had trace levels of MeCl2, acetone and MEK. Samples BC139MS and MSD had elevated levels of acetone and MEK.

Surrogate, MS/MSD and LCS recoveries were acceptable. IS2 and IS3 problems were found in samples BC139 and BC139MSD. They were slightly outside the 50% window, however they were not rerun. Calibration QC was acceptable.

SEMIVOLATILES

Samples were analyzed by the CLP SVOA procedures. No dilutions or reanalysis were required. The samples were clean.

Surrogate, MS/MSD and LCS recoveries were good with the exception of 2,4-Dinitrotoluene which was at 95% in the MS and MSD. Calibrations were acceptable.

PESTICIDES

Organochlorine pesticides/PCBs were analysed by the EPA CLP procedures. Several samples were rerun due to retention time shifts. Samples had a few peaks but no confirmed hits. Sample 2831-4 had several peaks but did not match any PCBs.

Surrogates were not recovered in sample 2831-2. This may be due to a missed spike. MS/MSD and LCS recoveries were acceptable. Aldrin and gamma BHC were slightly (0.01 min) out of RTW in PEM05. Samples were checked for similar effects and no problems were found. All other calibration QC was good.

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFIC
3398 Carmel Mountain Road., San Diego, CA 92121-109
P.O. Box 1620, La Jolla, CA 92038-162

TRACE METALS

Metals were analysed by the EPA CLP methods for the TAL list and by SW-846 methods for Mo, Ti and Zr. Some samples had elevated levels of Al and Fe. Samples were diluted 1:2 to meet CLP final volume levels.

MS, Rep and LCS recoveries were within limits. No solid LCS was available for Zr and Ti. The aqueous LCS was digested by the soil method for Zr and Ti. Calibration and supporting QC was acceptable.

The equation for calculating results for ICP and GFAA is provided below:

$$\text{Final Concentration in mg/Kg} = \frac{A \times B \times C}{D \times E}$$

A = Raw data (mg/L)
B = Dilution factor
C = Final volume (L)
D = Sample weight (Kg)
E = Percent solids in decimal form

SILICA

The samples were analysed according to Method 370.1 with a 1:5 DI Leach for dissolved silica. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

AMMONIA

The samples were analysed according to Method 350.3 with a 1:5 DI Leach. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

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S-CUBED Division

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3398 Carmel Mountain Road., San Diego, CA 92121-1
P.O. Box 1620, La Jolla, CA 92038-1

ALKALINITY

The samples were analysed according to Method 310.1 with a 1:5 DI Leach. There were no difficulties with the analysis. There were signifigant levels detected in the samples.

The quality control results were acceptable.

ANIONS

The samples were analysed according to Method 300.0 with a 1:5 DI Leach. There were no difficulties with the analysis. There were low levels detected in the samples.

The quality control results were acceptable.

TOC

TOC was analysed using the furnace modification to Method 9060. Samples were diluted 1:10 and moderate levels of organic carbon were present.

The quality control results were acceptable.

John DeWald
Manager, Commercial Analysis Section

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

SAMPLE SUMMARY

S-Cubed Reference No.32359-14, SDG No. 2831 , Project Name: WHC

Sample ID	S-Cubed Number	Date Received	Sample Type	Analysis										
				A	B	C	D	E	F	G	H	I	J	K
B0136	2831-1	2/29/92	SOIL	1	0	0	0	0	0	0	0	0	0	0
B0137	2831-2	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0138	2831-3	2/29/92	SOIL	1	0	0	0	0	0	0	0	0	0	0
B0139	2831-4	2/29/92	SOIL	3	3	1	3	3	3	3	3	3	3	3
B0140	2831-5	2/29/92	SOIL	1	1	3	1	1	1	1	1	1	1	1
B0141	2831-6	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0142	2831-7	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0143	2831-8	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0144	2831-9	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0145	2831-10	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0146	2831-11	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0147	2831-12	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0148	2831-13	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0149	2831-14	2/29/92	SOIL	1	1	1	1	0	0	0	0	0	0	0
B0150	2831-15	2/29/92	SOIL	1	1	1	1	1	1	1	1	1	1	1
B0153	2831-16	2/29/92	SOIL	0	0	0	0	1	1	1	1	1	1	1

ANALYSIS KEY:

A=VOAOLM	F=FURNCLP	K=SiO4
B=SVOAOLM	G=HGCLP	L=Zr
C=OCPOLM	H=ANIONS	M=Mo
D=TOC	I=ALK	N=Ti
E=ICPCLP	J=N-NH3	

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3102
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 16.80 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	790	U
111-44-4	bis(2-Chloroethyl)ether	790	U
95-57-8	2-Chlorophenol	790	U
541-73-1	1,3-Dichlorobenzene	790	U
106-46-7	1,4-Dichlorobenzene	790	U
95-50-1	1,2-Dichlorobenzene	790	U
95-48-7	2-Methylphenol	790	U
108-60-1	2,2'-oxybis(1-Chloropropane)	790	U
106-44-5	4-Methylphenol	790	U
621-64-7	N-Nitroso-di-n-propylamine	790	U
67-72-1	Hexachloroethane	790	U
98-95-3	Nitrobenzene	790	U
78-59-1	Isophorone	790	U
88-75-5	2-Nitrophenol	790	U
105-67-9	2,4-Dimethylphenol	790	U
111-91-1	bis(2-Chloroethoxy)methane	790	U
120-83-2	2,4-Dichlorophenol	790	U
120-82-1	1,2,4-Trichlorobenzene	790	U
91-20-3	Naphthalene	790	U
106-47-8	4-Chloroaniline	790	U
87-68-3	Hexachlorobutadiene	790	U
59-50-7	4-Chloro-3-methylphenol	790	U
91-57-6	2-Methylnaphthalene	790	U
77-47-4	Hexachlorocyclopentadiene	790	U
88-06-2	2,4,6-Trichlorophenol	790	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	790	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	790	U
208-96-8	Acenaphthylene	790	U
606-20-2	2,6-Dinitrotoluene	790	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	790	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	790	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3102
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 16.80 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	790	U
84-66-2	Diethylphthalate	790	U
7005-72-3	4-Chlorophenyl-phenyl ether	790	U
86-73-7	Fluorene	790	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	790	U
101-55-3	4-Bromophenyl-phenylether	790	U
118-74-1	Hexachlorobenzene	790	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	790	U
120-12-7	Anthracene	790	U
86-74-8	Carbazole	790	U
84-74-2	Di-n-butylphthalate	790	U
206-44-0	Fluoranthene	790	U
129-00-0	Pyrene	790	~~U~~ R
85-68-7	Butylbenzylphthalate	790	U
91-94-1	3,3'-Dichlorobenzidine	790	U
56-55-3	Benzo(a)anthracene	790	U
218-01-9	Chrysene	790	U
117-81-7	Bis(2-Ethylhexyl)phthalate	790	U
117-84-0	Di-n-octylphthalate	790	U
205-99-2	Benzo(b)fluoranthene	790	U
207-08-9	Benzo(k)fluoranthene	790	U
50-32-8	Benzo(a)pyrene	790	U
193-39-5	Indeno(1,2,3-cd)pyrene	790	U
53-70-3	Dibenz(a,h)anthracene	790	U
191-24-2	Benzo(g,h,i)perylene	790	U

JHartw 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0137

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	360 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~"~~	~~4.34~~	~~1600 JNB~~
3.	UNKNOWN HYDROCARBON	"	32.85	690 J
4.	UNKNOWN HYDROCARBON	"	34.67	2000 J
5.	UNKNOWN HYDROCARBON	"	36.37	880 J
6.	UNKNOWN	"	37.78	620 J
7.	UNKNOWN	"	38.28	340 J
8.	UNKNOWN	"	40.26	1200 J
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J for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.11 (g/mL) G Lab File ID: A3104
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 33.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	980	U
111-44-4	bis(2-Chloroethyl)ether	980	U
95-57-8	2-Chlorophenol	980	U
541-73-1	1,3-Dichlorobenzene	980	U
106-46-7	1,4-Dichlorobenzene	980	U
95-50-1	1,2-Dichlorobenzene	980	U
95-48-7	2-Methylphenol	980	U
108-60-1	2,2'-oxybis(1-Chloropropane)	980	U
106-44-5	4-Methylphenol	980	U
621-64-7	N-Nitroso-di-n-propylamine	980	U
67-72-1	Hexachloroethane	980	U
98-95-3	Nitrobenzene	980	U
78-59-1	Isophorone	980	U
88-75-5	2-Nitrophenol	980	U
105-67-9	2,4-Dimethylphenol	980	U
111-91-1	bis(2-Chloroethoxy)methane	980	U
120-83-2	2,4-Dichlorophenol	980	U
120-82-1	1,2,4-Trichlorobenzene	980	U
91-20-3	Naphthalene	980	U
106-47-8	4-Chloroaniline	980	U
87-68-3	Hexachlorobutadiene	980	U
59-50-7	4-Chloro-3-methylphenol	980	U
91-57-6	2-Methylnaphthalene	980	U
77-47-4	Hexachlorocyclopentadiene	980	U
88-06-2	2,4,6-Trichlorophenol	980	U
95-95-4	2,4,5-Trichlorophenol	2400	U
91-58-7	2-Chloronaphthalene	980	U
88-74-4	2-Nitroaniline	2400	U
131-11-3	Dimethylphthalate	980	U
208-96-8	Acenaphthylene	980	U
606-20-2	2,6-Dinitrotoluene	980	U
99-09-2	3-Nitroaniline	2400	U
83-32-9	Acenaphthene	980	U
51-28-5	2,4-Dinitrophenol	2400	U
100-02-7	4-Nitrophenol	2400	U
132-64-9	Dibenzofuran	980	U

JS for TW 4/22/92

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.11 (g/mL) G Lab File ID: A3104
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 33.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	980	U
84-66-2	Diethylphthalate	980	U
7005-72-3	4-Chlorophenyl-phenyl ether	980	U
86-73-7	Fluorene	980	U
100-01-6	4-Nitroaniline	2400	U
534-52-1	4,6-Dinitro-2-methylphenol	2400	U
86-30-6	N-Nitrosodiphenylamine (1)	980	U
101-55-3	4-Bromophenyl-phenylether	980	U
118-74-1	Hexachlorobenzene	980	U
87-86-5	Pentachlorophenol	2400	U
85-01-8	Phenanthrene	980	U
120-12-7	Anthracene	980	U
86-74-8	Carbazole	980	U
84-74-2	Di-n-butylphthalate	980	U
206-44-0	Fluoranthene	980	U
129-00-0	Pyrene	980	~~U~~ R
85-68-7	Butylbenzylphthalate	980	U
91-94-1	3,3'-Dichlorobenzidine	980	U
56-55-3	Benzo(a)anthracene	980	U
218-01-9	Chrysene	980	U
117-81-7	Bis(2-Ethylhexyl)phthalate	980	U
117-84-0	Di-n-octylphthalate	980	U
205-99-2	Benzo(b)fluoranthene	980	U
207-08-9	Benzo(k)fluoranthene	980	U
50-32-8	Benzo(a)pyrene	980	U
193-39-5	Indeno(1,2,3-cd)pyrene	980	U
53-70-3	Dibenz(a,h)anthracene	980	U
191-24-2	Benzo(g,h,i)perylene	980	U

JHartw 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0139

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~BNA~~	~~4.25~~	~~2000 JNB~~
1.	UNKNOWN HYDROCARBON	"	30.90	780 J
2.	UNKNOWN	"	31.02	760 J
3.	UNKNOWN	"	32.20	740 J
4.	UNKNOWN HYDROCARBON	"	32.50	710 J
5.	UNKNOWN	"	32.85	3800 J
6.	UNKNOWN	"	32.99	1400 J
7.	UNKNOWN	"	33.78	850 J
8.	UNKNOWN	"	34.68	6000 J
9.	UNKNOWN	"	36.24	800 J
10.	UNKNOWN	"	36.43	2700 J
11.	UNKNOWN	"	36.57	1200 J
12.	UNKNOWN	"	36.98	1100 J
13.	UNKNOWN	"	37.48	650 J
14.	UNKNOWN	"	37.75	2000 J
15.	UNKNOWN	"	37.84	580 J
16.	UNKNOWN	"	38.24	5000 J
17.	UNKNOWN	"	38.33	1600 J
18.	UNKNOWN	"	38.93	920 J
19.	UNKNOWN	"	39.43	600 J
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30.				

for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.17 (g/mL) G Lab File ID: A3105
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 15.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	770	U
111-44-4	bis(2-Chloroethyl)ether	770	U
95-57-8	2-Chlorophenol	770	U
541-73-1	1,3-Dichlorobenzene	770	U
106-46-7	1,4-Dichlorobenzene	770	U
95-50-1	1,2-Dichlorobenzene	770	U
95-48-7	2-Methylphenol	770	U
108-60-1	2,2'-oxybis(1-Chloropropane)	770	U
106-44-5	4-Methylphenol	770	U
621-64-7	N-Nitroso-di-n-propylamine	770	U
67-72-1	Hexachloroethane	770	U
98-95-3	Nitrobenzene	770	U
78-59-1	Isophorone	770	U
88-75-5	2-Nitrophenol	770	U
105-67-9	2,4-Dimethylphenol	770	U
111-91-1	bis(2-Chloroethoxy)methane	770	U
120-83-2	2,4-Dichlorophenol	770	U
120-82-1	1,2,4-Trichlorobenzene	770	U
91-20-3	Naphthalene	770	U
106-47-8	4-Chloroaniline	770	U
87-68-3	Hexachlorobutadiene	770	U
59-50-7	4-Chloro-3-methylphenol	770	U
91-57-6	2-Methylnaphthalene	770	U
77-47-4	Hexachlorocyclopentadiene	770	U
88-06-2	2,4,6-Trichlorophenol	770	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	770	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	770	U
208-96-8	Acenaphthylene	770	U
606-20-2	2,6-Dinitrotoluene	770	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	770	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	770	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.17 (g/mL) G Lab File ID: A3105
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 15.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/03/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	770	U
84-66-2	Diethylphthalate	770	U
7005-72-3	4-Chlorophenyl-phenyl ether	770	U
86-73-7	Fluorene	770	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	770	U
101-55-3	4-Bromophenyl-phenylether	770	U
118-74-1	Hexachlorobenzene	770	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	770	U
120-12-7	Anthracene	770	U
86-74-8	Carbazole	770	U
84-74-2	Di-n-butylphthalate	770	U
206-44-0	Fluoranthene	770	U
129-00-0	Pyrene	770	~~U~~ R
85-68-7	Butylbenzylphthalate	770	U
91-94-1	3,3'-Dichlorobenzidine	770	U
56-55-3	Benzo(a)anthracene	770	U
218-01-9	Chrysene	770	U
117-81-7	Bis(2-Ethylhexyl)phthalate	770	U
117-84-0	Di-n-octylphthalate	770	U
205-99-2	Benzo(b)fluoranthene	770	U
207-08-9	Benzo(k)fluoranthene	770	U
50-32-8	Benzo(a)pyrene	770	U
193-39-5	Indeno(1,2,3-cd)pyrene	770	U
53-70-3	Dibenz(a,h)anthracene	770	U
191-24-2	Benzo(g,h,i)perylene	770	U

JKW 4/22/92

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P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0140

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.06	2100 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~"~~	~~4.25~~	~~1600 JNB~~
3.	UNKNOWN HYDROCARBON	"	34.67	580 J
4.	UNKNOWN HYDROCARBON	"	36.37	460 J
5.	UNKNOWN	"	37.73	300 J
6.	UNKNOWN	"	38.21	1200 J
7.	UNKNOWN	"	39.43	480 J
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.22 (g/mL) G Lab File ID: A3106
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 18.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	800	U
111-44-4	bis(2-Chloroethyl)ether	800	U
95-57-8	2-Chlorophenol	800	U
541-73-1	1,3-Dichlorobenzene	800	U
106-46-7	1,4-Dichlorobenzene	800	U
95-50-1	1,2-Dichlorobenzene	800	U
95-48-7	2-Methylphenol	800	U
108-60-1	2,2'-oxybis(1-Chloropropane)	800	U
106-44-5	4-Methylphenol	800	U
621-64-7	N-Nitroso-di-n-propylamine	800	U
67-72-1	Hexachloroethane	800	U
98-95-3	Nitrobenzene	800	U
78-59-1	Isophorone	800	U
88-75-5	2-Nitrophenol	800	U
105-67-9	2,4-Dimethylphenol	800	U
111-91-1	bis(2-Chloroethoxy)methane	800	U
120-83-2	2,4-Dichlorophenol	800	U
120-82-1	1,2,4-Trichlorobenzene	800	U
91-20-3	Naphthalene	800	U
106-47-8	4-Chloroaniline	800	U
87-68-3	Hexachlorobutadiene	800	U
59-50-7	4-Chloro-3-methylphenol	800	U
91-57-6	2-Methylnaphthalene	800	U
77-47-4	Hexachlorocyclopentadiene	800	U
88-06-2	2,4,6-Trichlorophenol	800	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	800	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethylphthalate	800	U
208-96-8	Acenaphthylene	800	U
606-20-2	2,6-Dinitrotoluene	800	U
99-09-2	3-Nitroaniline	1900	U
83-32-9	Acenaphthene	800	U
51-28-5	2,4-Dinitrophenol	1900	U
100-02-7	4-Nitrophenol	1900	U
132-64-9	Dibenzofuran	800	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.22 (g/mL) G Lab File ID: A3106
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 18.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	800	U
84-66-2	Diethylphthalate	800	U
7005-72-3	4-Chlorophenyl-phenyl ether	800	U
86-73-7	Fluorene	800	U
100-01-6	4-Nitroaniline	1900	U
534-52-1	4,6-Dinitro-2-methylphenol	1900	U
86-30-6	N-Nitrosodiphenylamine (1)	800	U
101-55-3	4-Bromophenyl-phenylether	800	U
118-74-1	Hexachlorobenzene	800	U
87-86-5	Pentachlorophenol	1900	U
85-01-8	Phenanthrene	800	U
120-12-7	Anthracene	800	U
86-74-8	Carbazole	800	U
84-74-2	Di-n-butylphthalate	800	U
206-44-0	Fluoranthene	800	U
129-00-0	Pyrene	800	~~U~~ R
85-68-7	Butylbenzylphthalate	800	U
91-94-1	3,3'-Dichlorobenzidine	800	U
56-55-3	Benzo(a)anthracene	800	U
218-01-9	Chrysene	800	U
117-81-7	Bis(2-Ethylhexyl)phthalate	800	U
117-84-0	Di-n-octylphthalate	800	U
205-99-2	Benzo(b)fluoranthene	800	U
207-08-9	Benzo(k)fluoranthene	800	U
50-32-8	Benzo(a)pyrene	800	U
193-39-5	Indeno(1,2,3-cd)pyrene	800	U
53-70-3	Dibenz(a,h)anthracene	800	U
191-24-2	Benzo(g,h,i)perylene	800	U

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P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0141

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~BNA~~	~~4.25~~	~~1800 JNB~~
2.	UNKNOWN	"	22.61	440 J
3.	UNKNOWN	"	4.03	940 J
4.	UNKNOWN	"	36.43	1600 J
5.	UNKNOWN	"	37.19	470 J
6.	UNKNOWN	"	38.21	1300 J
7.	UNKNOWN	"	39.43	500 J
8.	UNKNOWN	"	40.01	410 J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.01 (g/mL) G Lab File ID: A3107
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	bis(2-Chloroethyl)ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	U
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-di-n-propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
111-91-1	bis(2-Chloroethoxy)methane	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	U
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U
91-57-6	2-Methylnaphthalene	710	U
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	710	U
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	710	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	710	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.01 (g/mL) G Lab File ID: A3107
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	710	U
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenyl ether	710	U
86-73-7	Fluorene	710	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	710	U
120-12-7	Anthracene	710	U
86-74-8	Carbazole	710	U
84-74-2	Di-n-butylphthalate	710	U
206-44-0	Fluoranthene	710	U
129-00-0	Pyrene	710	~~U~~ R
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo(a)anthracene	710	U
218-01-9	Chrysene	710	U
117-81-7	Bis(2-Ethylhexyl)phthalate	710	U
117-84-0	Di-n-octylphthalate	710	U
205-99-2	Benzo(b)fluoranthene	710	U
207-08-9	Benzo(k)fluoranthene	710	U
50-32-8	Benzo(a)pyrene	710	U
193-39-5	Indeno(1,2,3-cd)pyrene	710	U
53-70-3	Dibenz(a,h)anthracene	710	U
191-24-2	Benzo(g,h,i)perylene	710	U

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Sample Number
B0142

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	330 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~"~~	~~4.25~~	~~2000 JNB~~
3.	UNKNOWN HYDROCARBON	"	34.66	390 J
4.	UNKNOWN	"	38.21	360 J
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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.18 (g/mL) G Lab File ID: A3108
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 13.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	750	U
111-44-4	bis(2-Chloroethyl)ether	750	U
95-57-8	2-Chlorophenol	750	U
541-73-1	1,3-Dichlorobenzene	750	U
106-46-7	1,4-Dichlorobenzene	750	U
95-50-1	1,2-Dichlorobenzene	750	U
95-48-7	2-Methylphenol	750	U
108-60-1	2,2'-oxybis(1-Chloropropane)	750	U
106-44-5	4-Methylphenol	750	U
621-64-7	N-Nitroso-di-n-propylamine	750	U
67-72-1	Hexachloroethane	750	U
98-95-3	Nitrobenzene	750	U
78-59-1	Isophorone	750	U
88-75-5	2-Nitrophenol	750	U
105-67-9	2,4-Dimethylphenol	750	U
111-91-1	bis(2-Chloroethoxy)methane	750	U
120-83-2	2,4-Dichlorophenol	750	U
120-82-1	1,2,4-Trichlorobenzene	750	U
91-20-3	Naphthalene	750	U
106-47-8	4-Chloroaniline	750	U
87-68-3	Hexachlorobutadiene	750	U
59-50-7	4-Chloro-3-methylphenol	750	U
91-57-6	2-Methylnaphthalene	750	U
77-47-4	Hexachlorocyclopentadiene	750	U
88-06-2	2,4,6-Trichlorophenol	750	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	750	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	750	U
208-96-8	Acenaphthylene	750	U
606-20-2	2,6-Dinitrotoluene	750	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	750	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	750	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.18 (g/mL) G Lab File ID: A3108
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 13.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	750	U
84-66-2	Diethylphthalate	750	U
7005-72-3	4-Chlorophenyl-phenyl ether	750	U
86-73-7	Fluorene	750	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	750	U
101-55-3	4-Bromophenyl-phenylether	750	U
118-74-1	Hexachlorobenzene	750	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	750	U
120-12-7	Anthracene	750	U
86-74-8	Carbazole	750	U
84-74-2	Di-n-butylphthalate	750	U
206-44-0	Fluoranthene	750	U
129-00-0	Pyrene	750	~~U~~ R
85-68-7	Butylbenzylphthalate	750	U
91-94-1	3,3'-Dichlorobenzidine	750	U
56-55-3	Benzo(a)anthracene	750	U
218-01-9	Chrysene	750	U
117-81-7	Bis(2-Ethylhexyl)phthalate	750	U
117-84-0	Di-n-octylphthalate	750	U
205-99-2	Benzo(b)fluoranthene	750	U
207-08-9	Benzo(k)fluoranthene	750	U
50-32-8	Benzo(a)pyrene	750	U
193-39-5	Indeno(1,2,3-cd)pyrene	750	U
53-70-3	Dibenz(a,h)anthracene	750	U
191-24-2	Benzo(g,h,i)perylene	750	U

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Sample Number
B0143

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	740 J
2. 000123-42-2	2-PENTANONE, 4-HYDROXY- 4-METHYL-	~~"~~	~~4.26~~	~~1800 JNB~~
3.	UNKNOWN	"	38.21	550 J
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JT for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.19 (g/mL) G Lab File ID: A3109
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 6.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	700	U
111-44-4	bis(2-Chloroethyl)ether	700	U
95-57-8	2-Chlorophenol	700	U
541-73-1	1,3-Dichlorobenzene	700	U
106-46-7	1,4-Dichlorobenzene	700	U
95-50-1	1,2-Dichlorobenzene	700	U
95-48-7	2-Methylphenol	700	U
108-60-1	2,2'-oxybis(1-Chloropropane)	700	U
106-44-5	4-Methylphenol	700	U
621-64-7	N-Nitroso-di-n-propylamine	700	U
67-72-1	Hexachloroethane	700	U
98-95-3	Nitrobenzene	700	U
78-59-1	Isophorone	700	U
88-75-5	2-Nitrophenol	700	U
105-67-9	2,4-Dimethylphenol	700	U
111-91-1	bis(2-Chloroethoxy)methane	700	U
120-83-2	2,4-Dichlorophenol	700	U
120-82-1	1,2,4-Trichlorobenzene	700	U
91-20-3	Naphthalene	700	U
106-47-8	4-Chloroaniline	700	U
87-68-3	Hexachlorobutadiene	700	U
59-50-7	4-Chloro-3-methylphenol	700	U
91-57-6	2-Methylnaphthalene	700	U
77-47-4	Hexachlorocyclopentadiene	700	U
88-06-2	2,4,6-Trichlorophenol	700	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	700	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	700	U
208-96-8	Acenaphthylene	700	U
606-20-2	2,6-Dinitrotoluene	700	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	700	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	700	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.19 (g/mL) G Lab File ID: A3109
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 6.50 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	700	U
84-66-2	Diethylphthalate	700	U
7005-72-3	4-Chlorophenyl-phenyl ether	700	U
86-73-7	Fluorene	700	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	700	U
101-55-3	4-Bromophenyl-phenylether	700	U
118-74-1	Hexachlorobenzene	700	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	700	U
120-12-7	Anthracene	700	U
86-74-8	Carbazole	700	U
84-74-2	Di-n-butylphthalate	700	U
206-44-0	Fluoranthene	700	U
129-00-0	Pyrene	700	~~U~~ R
85-68-7	Butylbenzylphthalate	700	U
91-94-1	3,3'-Dichlorobenzidine	700	U
56-55-3	Benzo(a)anthracene	700	U
218-01-9	Chrysene	700	U
117-81-7	Bis(2-Ethylhexyl)phthalate	700	U
117-84-0	Di-n-octylphthalate	700	U
205-99-2	Benzo(b)fluoranthene	700	U
207-08-9	Benzo(k)fluoranthene	700	U
50-32-8	Benzo(a)pyrene	700	U
193-39-5	Indeno(1,2,3-cd)pyrene	700	U
53-70-3	Dibenz(a,h)anthracene	700	U
191-24-2	Benzo(g,h,i)perylene	700	U

JGrtw 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0144

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~BAA~~	~~4.25~~	~~1100 JNB~~
1.	UNKNOWN	"	27.32	240 J
2.	UNKNOWN	"	30.82	740 J
3.	UNKNOWN HYDROCARBON	"	30.90	250 J
4.	UNKNOWN HYDROCARBON	"	32.85	1700 J
5.	UNKNOWN HYDROCARBON	"	33.78	470 J
6.	UNKNOWN HYDROCARBON	"	34.70	6300 J
7.	UNKNOWN HYDROCARBON	"	35.53	500 J
8.	UNKNOWN HYDROCARBON	"	36.38	3400 J
9.	UNKNOWN	"	36.56	610 J
10.	UNKNOWN	"	37.74	360 J
11.	UNKNOWN HYDROCARBON	"	37.98	260 J
12.	UNKNOWN	"	38.22	2000 J
13.	UNKNOWN	"	38.64	310 J
14.	UNKNOWN	"	39.44	540 J
15.	UNKNOWN	"	40.27	500 J
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for TW 4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.05 (g/mL) G Lab File ID: A3110
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.70 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	710	U
111-44-4	bis(2-Chloroethyl)ether	710	U
95-57-8	2-Chlorophenol	710	U
541-73-1	1,3-Dichlorobenzene	710	U
106-46-7	1,4-Dichlorobenzene	710	U
95-50-1	1,2-Dichlorobenzene	710	U
95-48-7	2-Methylphenol	710	U
108-60-1	2,2'-oxybis(1-Chloropropane)	710	U
106-44-5	4-Methylphenol	710	U
621-64-7	N-Nitroso-di-n-propylamine	710	U
67-72-1	Hexachloroethane	710	U
98-95-3	Nitrobenzene	710	U
78-59-1	Isophorone	710	U
88-75-5	2-Nitrophenol	710	U
105-67-9	2,4-Dimethylphenol	710	U
111-91-1	bis(2-Chloroethoxy)methane	710	U
120-83-2	2,4-Dichlorophenol	710	U
120-82-1	1,2,4-Trichlorobenzene	710	U
91-20-3	Naphthalene	710	U
106-47-8	4-Chloroaniline	710	U
87-68-3	Hexachlorobutadiene	710	U
59-50-7	4-Chloro-3-methylphenol	710	U
91-57-6	2-Methylnaphthalene	710	U
77-47-4	Hexachlorocyclopentadiene	710	U
88-06-2	2,4,6-Trichlorophenol	710	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	710	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	710	U
208-96-8	Acenaphthylene	710	U
606-20-2	2,6-Dinitrotoluene	710	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	710	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	710	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.05 (g/mL) G Lab File ID: A3110
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 7.70 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	710	U
84-66-2	Diethylphthalate	710	U
7005-72-3	4-Chlorophenyl-phenyl ether	710	U
86-73-7	Fluorene	710	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	710	U
101-55-3	4-Bromophenyl-phenylether	710	U
118-74-1	Hexachlorobenzene	710	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	710	U
120-12-7	Anthracene	710	U
86-74-8	Carbazole	710	U
84-74-2	Di-n-butylphthalate	710	U
206-44-0	Fluoranthene	710	U
129-00-0	Pyrene	710	~~U~~ R
85-68-7	Butylbenzylphthalate	710	U
91-94-1	3,3'-Dichlorobenzidine	710	U
56-55-3	Benzo(a)anthracene	710	U
218-01-9	Chrysene	710	U
117-81-7	Bis(2-Ethylhexyl)phthalate	710	U
117-84-0	Di-n-octylphthalate	710	U
205-99-2	Benzo(b)fluoranthene	710	U
207-08-9	Benzo(k)fluoranthene	710	U
50-32-8	Benzo(a)pyrene	710	U
193-39-5	Indeno(1,2,3-cd)pyrene	710	U
53-70-3	Dibenz(a,h)anthracene	710	U
191-24-2	Benzo(g,h,i)perylene	710	U

JJ for TW 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0145

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~BNA~~	~~4.25~~	~~1800 JNB~~
2.	UNKNOWN HYDROCARBON	"	34.67	970 J
3.	UNKNOWN HYDROCARBON	"	36.37	1300 J
4.	UNKNOWN	"	38.19	370 J
5.	UNKNOWN	"	40.26	1200 J
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J for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.16 (g/mL) G Lab File ID: A3111
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	930	U
111-44-4	bis(2-Chloroethyl)ether	930	U
95-57-8	2-Chlorophenol	930	U
541-73-1	1,3-Dichlorobenzene	930	U
106-46-7	1,4-Dichlorobenzene	930	U
95-50-1	1,2-Dichlorobenzene	930	U
95-48-7	2-Methylphenol	930	U
108-60-1	2,2'-oxybis(1-Chloropropane)	930	U
106-44-5	4-Methylphenol	930	U
621-64-7	N-Nitroso-di-n-propylamine	930	U
67-72-1	Hexachloroethane	930	U
98-95-3	Nitrobenzene	930	U
78-59-1	Isophorone	930	U
88-75-5	2-Nitrophenol	930	U
105-67-9	2,4-Dimethylphenol	930	U
111-91-1	bis(2-Chloroethoxy)methane	930	U
120-83-2	2,4-Dichlorophenol	930	U
120-82-1	1,2,4-Trichlorobenzene	930	U
91-20-3	Naphthalene	930	U
106-47-8	4-Chloroaniline	930	U
87-68-3	Hexachlorobutadiene	930	U
59-50-7	4-Chloro-3-methylphenol	930	U
91-57-6	2-Methylnaphthalene	930	U
77-47-4	Hexachlorocyclopentadiene	930	U
88-06-2	2,4,6-Trichlorophenol	930	U
95-95-4	2,4,5-Trichlorophenol	2200	U
91-58-7	2-Chloronaphthalene	930	U
88-74-4	2-Nitroaniline	2200	U
131-11-3	Dimethylphthalate	930	U
208-96-8	Acenaphthylene	930	U
606-20-2	2,6-Dinitrotoluene	930	U
99-09-2	3-Nitroaniline	2200	U
83-32-9	Acenaphthene	930	U
51-28-5	2,4-Dinitrophenol	2200	U
100-02-7	4-Nitrophenol	2200	U
132-64-9	Dibenzofuran	930	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.16 (g/mL) G Lab File ID: A3111
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.10 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	930	U
84-66-2	Diethylphthalate	930	U
7005-72-3	4-Chlorophenyl-phenyl ether	930	U
86-73-7	Fluorene	930	U
100-01-6	4-Nitroaniline	2200	U
534-52-1	4,6-Dinitro-2-methylphenol	2200	U
86-30-6	N-Nitrosodiphenylamine (1)	930	U
101-55-3	4-Bromophenyl-phenylether	930	U
118-74-1	Hexachlorobenzene	930	U
87-86-5	Pentachlorophenol	2200	U
85-01-8	Phenanthrene	930	U
120-12-7	Anthracene	930	U
86-74-8	Carbazole	930	U
84-74-2	Di-n-butylphthalate	930	U
206-44-0	Fluoranthene	930	U
129-00-0	Pyrene	930	~~U~~ R
85-68-7	Butylbenzylphthalate	930	U
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)anthracene	930	U
218-01-9	Chrysene	930	U
117-81-7	Bis(2-Ethylhexyl)phthalate	930	U
117-84-0	Di-n-octylphthalate	930	U
205-99-2	Benzo(b)fluoranthene	930	U
207-08-9	Benzo(k)fluoranthene	930	U
50-32-8	Benzo(a)pyrene	930	U
193-39-5	Indeno(1,2,3-cd)pyrene	930	U
53-70-3	Dibenz(a,h)anthracene	930	U
191-24-2	Benzo(g,h,i)perylene	930	U

JS for TU 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0146

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	1100 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY- 4-METHYL-	~~"~~	~~4.25~~	~~2400 JNB~~
3.	UNKNOWN	"	36.42	430 J
4.	UNKNOWN	"	38.20	1200 J
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JL for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3112
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	930	U
111-44-4	bis(2-Chloroethyl)ether	930	U
95-57-8	2-Chlorophenol	930	U
541-73-1	1,3-Dichlorobenzene	930	U
106-46-7	1,4-Dichlorobenzene	930	U
95-50-1	1,2-Dichlorobenzene	930	U
95-48-7	2-Methylphenol	930	U
108-60-1	2,2'-oxybis(1-Chloropropane)	930	U
106-44-5	4-Methylphenol	930	U
621-64-7	N-Nitroso-di-n-propylamine	930	U
67-72-1	Hexachloroethane	930	U
98-95-3	Nitrobenzene	930	U
78-59-1	Isophorone	930	U
88-75-5	2-Nitrophenol	930	U
105-67-9	2,4-Dimethylphenol	930	U
111-91-1	bis(2-Chloroethoxy)methane	930	U
120-83-2	2,4-Dichlorophenol	930	U
120-82-1	1,2,4-Trichlorobenzene	930	U
91-20-3	Naphthalene	930	U
106-47-8	4-Chloroaniline	930	U
87-68-3	Hexachlorobutadiene	930	U
59-50-7	4-Chloro-3-methylphenol	930	U
91-57-6	2-Methylnaphthalene	930	U
77-47-4	Hexachlorocyclopentadiene	930	U
88-06-2	2,4,6-Trichlorophenol	930	U
95-95-4	2,4,5-Trichlorophenol	2300	U
91-58-7	2-Chloronaphthalene	930	U
88-74-4	2-Nitroaniline	2300	U
131-11-3	Dimethylphthalate	930	U
208-96-8	Acenaphthylene	930	U
606-20-2	2,6-Dinitrotoluene	930	U
99-09-2	3-Nitroaniline	2300	U
83-32-9	Acenaphthene	930	U
51-28-5	2,4-Dinitrophenol	2300	U
100-02-7	4-Nitrophenol	2300	U
132-64-9	Dibenzofuran	930	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3112
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 29.60 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	930	U
84-66-2	Diethylphthalate	930	U
7005-72-3	4-Chlorophenyl-phenyl ether	930	U
86-73-7	Fluorene	930	U
100-01-6	4-Nitroaniline	2300	U
534-52-1	4,6-Dinitro-2-methylphenol	2300	U
86-30-6	N-Nitrosodiphenylamine (1)	930	U
101-55-3	4-Bromophenyl-phenylether	930	U
118-74-1	Hexachlorobenzene	930	U
87-86-5	Pentachlorophenol	2300	U
85-01-8	Phenanthrene	930	U
120-12-7	Anthracene	930	U
86-74-8	Carbazole	930	U
84-74-2	Di-n-butylphthalate	930	U
206-44-0	Fluoranthene	930	U
129-00-0	Pyrene	930	~~U~~ R
85-68-7	Butylbenzylphthalate	930	U
91-94-1	3,3'-Dichlorobenzidine	930	U
56-55-3	Benzo(a)anthracene	930	U
218-01-9	Chrysene	930	U
117-81-7	Bis(2-Ethylhexyl)phthalate	930	U
117-84-0	Di-n-octylphthalate	930	U
205-99-2	Benzo(b)fluoranthene	930	U
207-08-9	Benzo(k)fluoranthene	930	U
50-32-8	Benzo(a)pyrene	930	U
193-39-5	Indeno(1,2,3-cd)pyrene	930	U
53-70-3	Dibenz(a,h)anthracene	930	U
191-24-2	Benzo(g,h,i)perylene	930	U

J for TU 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
B0147

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.05	1200 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~"~~	~~4.25~~	~~2100 JNB~~
3.	UNKNOWN HYDROCARBON	"	34.66	380 J
4.	UNKNOWN	"	38.21	720 J
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JT for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3113
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 9.40 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	730	U
111-44-4	bis(2-Chloroethyl)ether	730	U
95-57-8	2-Chlorophenol	730	U
541-73-1	1,3-Dichlorobenzene	730	U
106-46-7	1,4-Dichlorobenzene	730	U
95-50-1	1,2-Dichlorobenzene	730	U
95-48-7	2-Methylphenol	730	U
108-60-1	2,2'-oxybis(1-Chloropropane)	730	U
106-44-5	4-Methylphenol	730	U
621-64-7	N-Nitroso-di-n-propylamine	730	U
67-72-1	Hexachloroethane	730	U
98-95-3	Nitrobenzene	730	U
78-59-1	Isophorone	730	U
88-75-5	2-Nitrophenol	730	U
105-67-9	2,4-Dimethylphenol	730	U
111-91-1	bis(2-Chloroethoxy)methane	730	U
120-83-2	2,4-Dichlorophenol	730	U
120-82-1	1,2,4-Trichlorobenzene	730	U
91-20-3	Naphthalene	730	U
106-47-8	4-Chloroaniline	730	U
87-68-3	Hexachlorobutadiene	730	U
59-50-7	4-Chloro-3-methylphenol	730	U
91-57-6	2-Methylnaphthalene	730	U
77-47-4	Hexachlorocyclopentadiene	730	U
88-06-2	2,4,6-Trichlorophenol	730	U
95-95-4	2,4,5-Trichlorophenol	1800	U
91-58-7	2-Chloronaphthalene	730	U
88-74-4	2-Nitroaniline	1800	U
131-11-3	Dimethylphthalate	730	U
208-96-8	Acenaphthylene	730	U
606-20-2	2,6-Dinitrotoluene	730	U
99-09-2	3-Nitroaniline	1800	U
83-32-9	Acenaphthene	730	U
51-28-5	2,4-Dinitrophenol	1800	U
100-02-7	4-Nitrophenol	1800	U
132-64-9	Dibenzofuran	730	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.10 (g/mL) G Lab File ID: A3113
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 9.40 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	730	U
84-66-2	Diethylphthalate	730	U
7005-72-3	4-Chlorophenyl-phenyl ether	730	U
86-73-7	Fluorene	730	U
100-01-6	4-Nitroaniline	1800	U
534-52-1	4,6-Dinitro-2-methylphenol	1800	U
86-30-6	N-Nitrosodiphenylamine (1)	730	U
101-55-3	4-Bromophenyl-phenylether	730	U
118-74-1	Hexachlorobenzene	730	U
87-86-5	Pentachlorophenol	1800	U
85-01-8	Phenanthrene	730	U
120-12-7	Anthracene	730	U
86-74-8	Carbazole	730	U
84-74-2	Di-n-butylphthalate	730	U
206-44-0	Fluoranthene	730	U
129-00-0	Pyrene	730	~~U~~ R
85-68-7	Butylbenzylphthalate	730	U
91-94-1	3,3'-Dichlorobenzidine	730	U
56-55-3	Benzo(a)anthracene	730	U
218-01-9	Chrysene	730	U
117-81-7	Bis(2-Ethylhexyl)phthalate	730	U
117-84-0	Di-n-octylphthalate	730	U
205-99-2	Benzo(b)fluoranthene	730	U
207-08-9	Benzo(k)fluoranthene	730	U
50-32-8	Benzo(a)pyrene	730	U
193-39-5	Indeno(1,2,3-cd)pyrene	730	U
53-70-3	Dibenz(a,h)anthracene	730	U
191-24-2	Benzo(g,h,i)perylene	730	U

J for TW 4/22/92

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Sample Number
B0148

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.03	710 J
2. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~n~~	~~4.25~~	~~1700 JNB~~
3.	UNKNOWN HYDROCARBON	n	32.85	470 J
4.	UNKNOWN HYDROCARBON	n	34.67	1400 J
5.	UNKNOWN HYDROCARBON	n	36.37	520 J
6.	UNKNOWN	n	38.21	690 J
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JT for TW
4/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.03 (g/mL) G Lab File ID: A3114
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 0.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	2,2'-oxybis(1-Chloropropane)	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	1600	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	1600	U
131-11-3	Dimethylphthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U
99-09-2	3-Nitroaniline	1600	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	1600	U
100-02-7	4-Nitrophenol	1600	U
132-64-9	Dibenzofuran	660	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.03 (g/mL) G Lab File ID: A3114
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 0.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenyl ether	660	U
86-73-7	Fluorene	660	U
100-01-6	4-Nitroaniline	1600	U
534-52-1	4,6-Dinitro-2-methylphenol	1600	U
86-30-6	N-Nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	1600	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
86-74-8	Carbazole	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	~~U~~ R
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	660	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	Bis(2-Ethylhexyl)phthalate	660	U
117-84-0	Di-n-octylphthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenz(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

JJ for TW 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0149

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 00123-42-2	2-PENTANONE, 4-HYDROXY-4-METHYL-	~~BNA~~	~~4.25~~	~~2000 JNB~~
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JJ for TW 9/22/92

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3115
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 8.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
95-50-1	1,2-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	2,2'-oxybis(1-Chloropropane)	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	720	U
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	720	U
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	720	U
208-96-8	Acenaphthylene	720	U
606-20-2	2,6-Dinitrotoluene	720	U
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	720	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	720	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.13 (g/mL) G Lab File ID: A3115
Level: (low/med) LOW Date Received: 02/29/1992
% Moisture: 8.20 decanted: (Y/N) N Date Extracted: 03/02/1992
Concentrated Extract Volume: 2000.00(uL) Date Analyzed: 03/04/1992
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
7005-72-3	4-Chlorophenyl-phenyl ether	720	U
86-73-7	Fluorene	720	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-Nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	720	U
120-12-7	Anthracene	720	U
86-74-8	Carbazole	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	720	U
129-00-0	Pyrene	720	~~U~~ R
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	720	U
56-55-3	Benzo(a)anthracene	720	U
218-01-9	Chrysene	720	U
117-81-7	Bis(2-Ethylhexyl)phthalate	720	U
117-84-0	Di-n-octylphthalate	720	U
205-99-2	Benzo(b)fluoranthene	720	U
207-08-9	Benzo(k)fluoranthene	720	U
50-32-8	Benzo(a)pyrene	720	U
193-39-5	Indeno(1,2,3-cd)pyrene	720	U
53-70-3	Dibenz(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	720	U

for TW 4/22/92

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
B0150

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	UNKNOWN	BNA	4.04	290 J
00123-42-2 2.	2-PENTANONE, 4-HYDROXY-4-METHYL-	"	~~4.26~~	~~1800 JNB~~
3.	UNKNOWN HYDROCARBON	"	36.36	260 J
4.	UNKNOWN	"	38.20	320 J
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JJ for TW
4/22/92

374

OSM ORGANIC DATA ASSESSMENT

DATE 3-25-92

REVIEWED BY Ted Washington (for TW)

LABORATORY S-Cubed

CASE # Site-Wide Soil

SDG # 2831

SAMPLES/MATRIX

B0137	B0143	B0148
B0139	B0144	B0149
B0140	B0145	B0150
B0141	B0146	all Soil
B0142	B0147	—

DATA ASSESSMENT SUMMARY

	VOA	ABN	PEST
1. Holding Times (Form I)			O
2. Surrogate Recovery (II)			M
3. Matrix Spike/ MSD (III)			O
4. Blanks (IV)			O
5. GC/MS Tune (V)			
6. Calibration (VI-VII; VIII pest)			X O
7. Internal Standards (VIII)			
8. Instr. Perform. (IX pest)			X O
9. Other ( )			X

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems, some data may be unusable

OVERALL ASSESSMENT: all results for B0147 unusable due to low surrogate recovery; all other results acceptabe w/ attached qualifiers

NOTES : samples analyzed according to 3/90 protocol; validation guidelines not yet available for 3/90 — 2/88 val. + SOW (3/90) used as guidance

Refer to the corresponding attachments for explanation of any problems.

ORGANIC QC - Holding Times

Name Ted Washington 4/10/92 Date 4-10-92

COMMENTS: ALL Holding Time requirements were met.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Surrogates

Name Ted Washington (TW 4-10-92) Date 3-25-92

COMMENTS: Surrogate recoveries were out of control for sample B0147.

ACTION: Qualified all analytes in sample B0147 (R) unusable as per OSM protocols.

sample #	constituent	value/qual
B0147	All analytes	R

sample #	constituent	value/qual

ORGANIC QC - MS/MSD

Name Ted Washington TW 4-10-92 Date 3-25-92

COMMENTS: ALL MS/MSD Requirements were met.

ACTION: None - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Blanks

Name Ted Washington TW 4-10-92 Date 4-10-92

COMMENTS: ALL BLANK REQUIREMENTS WERE MET.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Calibrations

Name Ted Washington TW 4-10-92 Date 4-10-92

COMMENTS: ALL CALIBRATION REQUIREMENTS WERE MET.

ACTION: None - NO ACTIONS required.

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Instrument Performance (pest)

Name Ted Washington for TW Date 4-10-92

COMMENTS: 3/90 protocols followed - performance appeared to be stable and results within limits

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ORGANIC QC - Other

Name Ted Washington 4-10-92 Date 4-10-92

COMMENTS: Form III was the pesticide analytical sequence, it had B0147 (sample) out of control. There is no ~~guidance~~ protocol for this situation thus I have just qualified the sample as (UJ) estimated.

ACTION: Qualified B0147 estimated through professional judgement.

sample #	constituent	value/qual
B0147	All analytes	UJ

sample #	constituent	value/qual

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0137

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-2
Sample wt/vol: 29.99(g/mL) G Lab File ID: E0229-2DB608078
% Moisture: 16.80 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.04 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.04	U
319-85-7	beta-BHC	2.04	U
319-86-8	delta-BHC	2.04	U
58-89-9	gamma-BHC (Lindane)	2.04	U
76-44-8	Heptachlor	2.04	U
309-00-2	Aldrin	2.04	U
1024-57-3	Heptachlor epoxide (endo)	2.04	U
1024-57-3A	Heptachlor epoxide (exo)	2.04	U
959-98-8	Endosulfan I	2.04	U
60-57-1	Dieldrin	3.97	U
72-55-9	4,4'-DDE	3.97	U
72-20-8	Endrin	3.97	U
33213-65-9	Endosulfan II	3.97	U
72-54-8	4,4'-DDD	3.97	U
1031-07-8	Endosulfan sulfate	3.97	U
50-29-3	4,4'-DDT	3.97	U
72-43-5	Methoxychlor	20.4	U
53494-70-5	Endrin ketone	3.97	U
111-11-3	Endrin Aldehyde	3.97	U
5103-71-9	alpha-Chlordane	2.04	U
5103-74-2	gamma-Chlordane	2.04	U
8001-35-2	Toxaphene	204	U
12674-11-2	Aroclor-1016	39.7	U
11104-28-2	Aroclor-1221	80.6	U
11141-16-5	Aroclor-1232	39.7	U
53469-21-9	Aroclor-1242	39.7	U
12672-29-6	Aroclor-1248	39.7	U
11097-69-1	Aroclor-1254	39.7	U
11096-82-5	Aroclor-1260	39.7	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0139

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-4
Sample wt/vol: 30.03(g/mL) G Lab File ID: E0229-2DB608081
% Moisture: 33.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.03 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.54	U
319-85-7	beta-BHC	2.54	U
319-86-8	delta-BHC	2.54	U
58-89-9	gamma-BHC (Lindane)	2.54	U
76-44-8	Heptachlor	2.54	U
309-00-2	Aldrin	2.54	U
1024-57-3	Heptachlor epoxide (endo)	2.54	U
1024-57-3A	Heptachlor epoxide (exo)	2.54	U
959-98-8	Endosulfan I	2.54	U
60-57-1	Dieldrin	4.94	U
72-55-9	4,4'-DDE	4.94	U
72-20-8	Endrin	4.94	U
33213-65-9	Endosulfan II	4.94	U
72-54-8	4,4'-DDD	4.94	U
1031-07-8	Endosulfan sulfate	4.94	U
50-29-3	4,4'-DDT	4.94	U
72-43-5	Methoxychlor	25.4	U
53494-70-5	Endrin ketone	4.94	U
111-11-3	Endrin Aldehyde	4.94	U
5103-71-9	alpha-Chlordane	2.54	U
5103-74-2	gamma-Chlordane	2.54	U
8001-35-2	Toxaphene	254	U
12674-11-2	Aroclor-1016	49.4	U
11104-28-2	Aroclor-1221	100	U
11141-16-5	Aroclor-1232	49.4	U
53469-21-9	Aroclor-1242	49.4	U
12672-29-6	Aroclor-1248	49.4	U
11097-69-1	Aroclor-1254	49.4	U
11096-82-5	Aroclor-1260	49.4	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0140

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-5
Sample wt/vol: 30.01(g/mL) G Lab File ID: E0229-2DB608075
% Moisture: 15.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.61 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.00	U
319-85-7	beta-BHC	2.00	U
319-86-8	delta-BHC	2.00	U
58-89-9	gamma-BHC (Lindane)	2.00	U
76-44-8	Heptachlor	2.00	U
309-00-2	Aldrin	2.00	U
1024-57-3	Heptachlor epoxide (endo)	2.00	U
1024-57-3A	Heptachlor epoxide (exo)	2.00	U
959-98-8	Endosulfan I	2.00	U
60-57-1	Dieldrin	3.89	U
72-55-9	4,4'-DDE	3.89	U
72-20-8	Endrin	3.89	U
33213-65-9	Endosulfan II	3.89	U
72-54-8	4,4'-DDD	3.89	U
1031-07-8	Endosulfan sulfate	3.89	U
50-29-3	4,4'-DDT	3.89	U
72-43-5	Methoxychlor	20.0	U
53494-70-5	Endrin ketone	3.89	U
111-11-3	Endrin Aldehyde	3.89	U
5103-71-9	alpha-Chlordane	2.00	U
5103-74-2	gamma-Chlordane	2.00	U
8001-35-2	Toxaphene	200	U
12674-11-2	Aroclor-1016	38.9	U
11104-28-2	Aroclor-1221	78.9	U
11141-16-5	Aroclor-1232	38.9	U
53469-21-9	Aroclor-1242	38.9	U
12672-29-6	Aroclor-1248	38.9	U
11097-69-1	Aroclor-1254	38.9	U
11096-82-5	Aroclor-1260	38.9	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0141

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-6
Sample wt/vol: 30.11(g/mL) G Lab File ID: E0229-2DB608082
% Moisture: 18.50 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.81 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.08	U
319-85-7	beta-BHC	2.08	U
319-86-8	delta-BHC	2.08	U
58-89-9	gamma-BHC (Lindane)	2.08	U
76-44-8	Heptachlor	2.08	U
309-00-2	Aldrin	2.08	U
1024-57-3	Heptachlor epoxide (endo)	2.08	U
1024-57-3A	Heptachlor epoxide (exo)	2.08	U
959-98-8	Endosulfan I	2.08	U
60-57-1	Dieldrin	4.03	U
72-55-9	4,4'-DDE	4.03	U
72-20-8	Endrin	4.03	U
33213-65-9	Endosulfan II	4.03	U
72-54-8	4,4'-DDD	4.03	U
1031-07-8	Endosulfan sulfate	4.03	U
50-29-3	4,4'-DDT	4.03	U
72-43-5	Methoxychlor	20.8	U
53494-70-5	Endrin ketone	4.03	U
111-11-3	Endrin Aldehyde	4.03	U
5103-71-9	alpha-Chlordane	2.08	U
5103-74-2	gamma-Chlordane	2.08	U
8001-35-2	Toxaphene	208	U
12674-11-2	Aroclor-1016	40.3	U
11104-28-2	Aroclor-1221	81.9	U
11141-16-5	Aroclor-1232	40.3	U
53469-21-9	Aroclor-1242	40.3	U
12672-29-6	Aroclor-1248	40.3	U
11097-69-1	Aroclor-1254	40.3	U
11096-82-5	Aroclor-1260	40.3	U

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PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0142

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-7
Sample wt/vol: 30.00(g/mL) G Lab File ID: E0229-2DB608083
% Moisture: 7.60 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.90 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.84	U
319-85-7	beta-BHC	1.84	U
319-86-8	delta-BHC	1.84	U
58-89-9	gamma-BHC (Lindane)	1.84	U
76-44-8	Heptachlor	1.84	U
309-00-2	Aldrin	1.84	U
1024-57-3	Heptachlor epoxide (endo)	1.84	U
1024-57-3A	Heptachlor epoxide (exo)	1.84	U
959-98-8	Endosulfan I	1.84	U
60-57-1	Dieldrin	3.57	U
72-55-9	4,4'-DDE	3.57	U
72-20-8	Endrin	3.57	U
33213-65-9	Endosulfan II	3.57	U
72-54-8	4,4'-DDD	3.57	U
1031-07-8	Endosulfan sulfate	3.57	U
50-29-3	4,4'-DDT	3.57	U
72-43-5	Methoxychlor	18.4	U
53494-70-5	Endrin ketone	3.57	U
111-11-3	Endrin Aldehyde	3.57	U
5103-71-9	alpha-Chlordane	1.84	U
5103-74-2	gamma-Chlordane	1.84	U
8001-35-2	Toxaphene	184	U
12674-11-2	Aroclor-1016	35.7	U
11104-28-2	Aroclor-1221	72.5	U
11141-16-5	Aroclor-1232	35.7	U
53469-21-9	Aroclor-1242	35.7	U
12672-29-6	Aroclor-1248	35.7	U
11097-69-1	Aroclor-1254	35.7	U
11096-82-5	Aroclor-1260	35.7	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0143

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-8
Sample wt/vol: 30.10(g/mL) G Lab File ID: E0229-2DB608084
% Moisture: 13.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.51 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.95	U
319-85-7	beta-BHC	1.95	U
319-86-8	delta-BHC	1.95	U
58-89-9	gamma-BHC (Lindane)	1.95	U
76-44-8	Heptachlor	1.95	U
309-00-2	Aldrin	1.95	U
1024-57-3	Heptachlor epoxide (endo)	1.95	U
1024-57-3A	Heptachlor epoxide (exo)	1.95	U
959-98-8	Endosulfan I	1.95	U
60-57-1	Dieldrin	3.78	U
72-55-9	4,4'-DDE	3.78	U
72-20-8	Endrin	3.78	U
33213-65-9	Endosulfan II	3.78	U
72-54-8	4,4'-DDD	3.78	U
1031-07-8	Endosulfan sulfate	3.78	U
50-29-3	4,4'-DDT	3.78	U
72-43-5	Methoxychlor	19.5	U
53494-70-5	Endrin ketone	3.78	U
111-11-3	Endrin Aldehyde	3.78	U
5103-71-9	alpha-Chlordane	1.95	U
5103-74-2	gamma-Chlordane	1.95	U
8001-35-2	Toxaphene	195	U
12674-11-2	Aroclor-1016	37.8	U
11104-28-2	Aroclor-1221	76.8	U
11141-16-5	Aroclor-1232	37.8	U
53469-21-9	Aroclor-1242	37.8	U
12672-29-6	Aroclor-1248	37.8	U
11097-69-1	Aroclor-1254	37.8	U
11096-82-5	Aroclor-1260	37.8	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0144

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-9
Sample wt/vol: 30.24(g/mL) G Lab File ID: E0229-2DB608085
% Moisture: 6.50 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.55 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.80	U
319-85-7	beta-BHC	1.80	U
319-86-8	delta-BHC	1.80	U
58-89-9	gamma-BHC (Lindane)	1.80	U
76-44-8	Heptachlor	1.80	U
309-00-2	Aldrin	1.80	U
1024-57-3	Heptachlor epoxide (endo)	1.80	U
1024-57-3A	Heptachlor epoxide (exo)	1.80	U
959-98-8	Endosulfan I	1.80	U
60-57-1	Dieldrin	3.50	U
72-55-9	4,4'-DDE	3.50	U
72-20-8	Endrin	3.50	U
33213-65-9	Endosulfan II	3.50	U
72-54-8	4,4'-DDD	3.50	U
1031-07-8	Endosulfan sulfate	3.50	U
50-29-3	4,4'-DDT	3.50	U
72-43-5	Methoxychlor	18.0	U
53494-70-5	Endrin ketone	3.50	U
111-11-3	Endrin Aldehyde	3.50	U
5103-71-9	alpha-Chlordane	1.80	U
5103-74-2	gamma-Chlordane	1.80	U
8001-35-2	Toxaphene	180	U
12674-11-2	Aroclor-1016	35.0	U
11104-28-2	Aroclor-1221	71.1	U
11141-16-5	Aroclor-1232	35.0	U
53469-21-9	Aroclor-1242	35.0	U
12672-29-6	Aroclor-1248	35.0	U
11097-69-1	Aroclor-1254	35.0	U
11096-82-5	Aroclor-1260	35.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0145

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-10
Sample wt/vol: 30.25(g/mL) G Lab File ID: E0229-2DB608086
% Moisture: 7.70 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 9.28 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.83	U
319-85-7	beta-BHC	1.83	U
319-86-8	delta-BHC	1.83	U
58-89-9	gamma-BHC (Lindane)	1.83	U
76-44-8	Heptachlor	1.83	U
309-00-2	Aldrin	1.83	U
1024-57-3	Heptachlor epoxide (endo)	1.83	U
1024-57-3A	Heptachlor epoxide (exo)	1.83	U
959-98-8	Endosulfan I	1.83	U
60-57-1	Dieldrin	3.55	U
72-55-9	4,4'-DDE	3.55	U
72-20-8	Endrin	3.55	U
33213-65-9	Endosulfan II	3.55	U
72-54-8	4,4'-DDD	3.55	U
1031-07-8	Endosulfan sulfate	3.55	U
50-29-3	4,4'-DDT	3.55	U
72-43-5	Methoxychlor	18.3	U
53494-70-5	Endrin ketone	3.55	U
111-11-3	Endrin Aldehyde	3.55	U
5103-71-9	alpha-Chlordane	1.83	U
5103-74-2	gamma-Chlordane	1.83	U
8001-35-2	Toxaphene	183	U
12674-11-2	Aroclor-1016	35.5	U
11104-28-2	Aroclor-1221	72.0	U
11141-16-5	Aroclor-1232	35.5	U
53469-21-9	Aroclor-1242	35.5	U
12672-29-6	Aroclor-1248	35.5	U
11097-69-1	Aroclor-1254	35.5	U
11096-82-5	Aroclor-1260	35.5	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0146

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-11
Sample wt/vol: 30.12(g/mL) G Lab File ID: E0229-2DB608063
% Moisture: 29.10 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.98 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.39	U
319-85-7	beta-BHC	2.39	U
319-86-8	delta-BHC	2.39	U
58-89-9	gamma-BHC (Lindane)	2.39	U
76-44-8	Heptachlor	2.39	U
309-00-2	Aldrin	2.39	U
1024-57-3	Heptachlor epoxide (endo)	2.39	U
1024-57-3A	Heptachlor epoxide (exo)	2.39	U
959-98-8	Endosulfan I	2.39	U
60-57-1	Dieldrin	4.64	U
72-55-9	4,4'-DDE	4.64	U
72-20-8	Endrin	4.64	U
33213-65-9	Endosulfan II	4.64	U
72-54-8	4,4'-DDD	4.64	U
1031-07-8	Endosulfan sulfate	4.64	U
50-29-3	4,4'-DDT	4.64	U
72-43-5	Methoxychlor	23.9	U
53494-70-5	Endrin ketone	4.64	U
111-11-3	Endrin Aldehyde	4.64	U
5103-71-9	alpha-Chlordane	2.39	U
5103-74-2	gamma-Chlordane	2.39	U
8001-35-2	Toxaphene	239	U
12674-11-2	Aroclor-1016	46.4	U
11104-28-2	Aroclor-1221	94.1	U
11141-16-5	Aroclor-1232	46.4	U
53469-21-9	Aroclor-1242	46.4	U
12672-29-6	Aroclor-1248	46.4	U
11097-69-1	Aroclor-1254	46.4	U
11096-82-5	Aroclor-1260	46.4	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0147

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-12
Sample wt/vol: 30.28(g/mL) G Lab File ID: E0229-2DB608064
% Moisture: 29.60 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 8.97 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	2.39	U R
319-85-7	beta-BHC	2.39	U
319-86-8	delta-BHC	2.39	U
58-89-9	gamma-BHC (Lindane)	2.39	U
76-44-8	Heptachlor	2.39	U
309-00-2	Aldrin	2.39	U
1024-57-3	Heptachlor epoxide (endo)	2.39	U
1024-57-3A	Heptachlor epoxide (exo)	2.39	U
959-98-8	Endosulfan I	2.39	U
60-57-1	Dieldrin	4.64	U
72-55-9	4,4'-DDE	4.64	U
72-20-8	Endrin	4.64	U
33213-65-9	Endosulfan II	4.64	U
72-54-8	4,4'-DDD	4.64	U
1031-07-8	Endosulfan sulfate	4.64	U
50-29-3	4,4'-DDT	4.64	U
72-43-5	Methoxychlor	23.9	U
53494-70-5	Endrin ketone	4.64	U
111-11-3	Endrin Aldehyde	4.64	U
5103-71-9	alpha-Chlordane	2.39	U
5103-74-2	gamma-Chlordane	2.39	U
8001-35-2	Toxaphene	239	U
12674-11-2	Aroclor-1016	46.4	U
11104-28-2	Aroclor-1221	94.3	U
11141-16-5	Aroclor-1232	46.4	U
53469-21-9	Aroclor-1242	46.4	U
12672-29-6	Aroclor-1248	46.4	U
11097-69-1	Aroclor-1254	46.4	U
11096-82-5	Aroclor-1260	46.4	U R

JF for TW 4/22/92

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0148

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-13
Sample wt/vol: 30.20(g/mL) G Lab File ID: E0229-2DB608065
% Moisture: 9.40 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.38 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.86	U
319-85-7	beta-BHC	1.86	U
319-86-8	delta-BHC	1.86	U
58-89-9	gamma-BHC (Lindane)	1.86	U
76-44-8	Heptachlor	1.86	U
309-00-2	Aldrin	1.86	U
1024-57-3	Heptachlor epoxide (endo)	1.86	U
1024-57-3A	Heptachlor epoxide (exo)	1.86	U
959-98-8	Endosulfan I	1.86	U
60-57-1	Dieldrin	3.62	U
72-55-9	4,4'-DDE	3.62	U
72-20-8	Endrin	3.62	U
33213-65-9	Endosulfan II	3.62	U
72-54-8	4,4'-DDD	3.62	U
1031-07-8	Endosulfan sulfate	3.62	U
50-29-3	4,4'-DDT	3.62	U
72-43-5	Methoxychlor	18.6	U
53494-70-5	Endrin ketone	3.62	U
111-11-3	Endrin Aldehyde	3.62	U
5103-71-9	alpha-Chlordane	1.86	U
5103-74-2	gamma-Chlordane	1.86	U
8001-35-2	Toxaphene	186	U
12674-11-2	Aroclor-1016	36.2	U
11104-28-2	Aroclor-1221	73.5	U
11141-16-5	Aroclor-1232	36.2	U
53469-21-9	Aroclor-1242	36.2	U
12672-29-6	Aroclor-1248	36.2	U
11097-69-1	Aroclor-1254	36.2	U
11096-82-5	Aroclor-1260	36.2	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0149

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-14
Sample wt/vol: 30.00(g/mL) G Lab File ID: E0229-2DB608066
% Moisture: 0.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 6.55 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.70	U
319-85-7	beta-BHC	1.70	U
319-86-8	delta-BHC	1.70	U
58-89-9	gamma-BHC (Lindane)	1.70	U
76-44-8	Heptachlor	1.70	U
309-00-2	Aldrin	1.70	U
1024-57-3	Heptachlor epoxide (endo)	1.70	U
1024-57-3A	Heptachlor epoxide (exo)	1.70	U
959-98-8	Endosulfan I	1.70	U
60-57-1	Dieldrin	3.31	U
72-55-9	4,4'-DDE	3.31	U
72-20-8	Endrin	3.31	U
33213-65-9	Endosulfan II	3.31	U
72-54-8	4,4'-DDD	3.31	U
1031-07-8	Endosulfan sulfate	3.31	U
50-29-3	4,4'-DDT	3.31	U
72-43-5	Methoxychlor	17.0	U
53494-70-5	Endrin ketone	3.31	U
111-11-3	Endrin Aldehyde	3.31	U
5103-71-9	alpha-Chlordane	1.70	U
5103-74-2	gamma-Chlordane	1.70	U
8001-35-2	Toxaphene	170	U
12674-11-2	Aroclor-1016	33.1	U
11104-28-2	Aroclor-1221	67.1	U
11141-16-5	Aroclor-1232	33.1	U
53469-21-9	Aroclor-1242	33.1	U
12672-29-6	Aroclor-1248	33.1	U
11097-69-1	Aroclor-1254	33.1	U
11096-82-5	Aroclor-1260	33.1	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B0150

Lab Name: S-CUBED Contract: 32359-14
Lab Code: S3 Case No.: SWS SAS No.: SDG No.: 2831
Matrix: (soil/water) SOIL Lab Sample ID: 2831-15
Sample wt/vol: 30.07(g/mL) G Lab File ID: E0229-2DB608067
% Moisture: 8.20 decanted: (Y/N) N Date Received: 02/29/1992
Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 03/02/92
Concentrated Extract Volume: 10000(uL) Date Analyzed: 03/05/92
Injection Volume: 1.00 (uL) Dilution Factor: 1.00
GPC Cleanup: (Y/N) Y pH: 7.16 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
319-84-6	alpha-BHC	1.85	U
319-85-7	beta-BHC	1.85	U
319-86-8	delta-BHC	1.85	U
58-89-9	gamma-BHC (Lindane)	1.85	U
76-44-8	Heptachlor	1.85	U
309-00-2	Aldrin	1.85	U
1024-57-3	Heptachlor epoxide (endo)	1.85	U
1024-57-3A	Heptachlor epoxide (exo)	1.85	U
959-98-8	Endosulfan I	1.85	U
60-57-1	Dieldrin	3.59	U
72-55-9	4,4'-DDE	3.59	U
72-20-8	Endrin	3.59	U
33213-65-9	Endosulfan II	3.59	U
72-54-8	4,4'-DDD	3.59	U
1031-07-8	Endosulfan sulfate	3.59	U
50-29-3	4,4'-DDT	3.59	U
72-43-5	Methoxychlor	18.5	U
53494-70-5	Endrin ketone	3.59	U
111-11-3	Endrin Aldehyde	3.59	U
5103-71-9	alpha-Chlordane	1.85	U
5103-74-2	gamma-Chlordane	1.85	U
8001-35-2	Toxaphene	185	U
12674-11-2	Aroclor-1016	35.9	U
11104-28-2	Aroclor-1221	72.8	U
11141-16-5	Aroclor-1232	35.9	U
53469-21-9	Aroclor-1242	35.9	U
12672-29-6	Aroclor-1248	35.9	U
11097-69-1	Aroclor-1254	35.9	U
11096-82-5	Aroclor-1260	35.9	U

OSM RCRA DATA ASSESSMENT (pg 1 of 2)

DATE 5/22/92

REVIEWED BY JA Lerch

LABORATORY S-Cubed

CASE # —

SDG # 2831

SAMPLES/MATRIX

B0137	B0143	B0148
B0139	B0144	B0150
B0140	B0145	B0153
B0141	B0146	all soil
B0142	B0147	—

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	Si	Ammonia	Alkalinity
1. Holding time		O	O	O
2. Calibration		O	O	N/A
3. Blanks		O	O	O
4. Matrix Spike		O	O	O
5. Replicate		O	O	O
6. Control Std		O	O	O
7.				
8.				
9.				
10.				

O = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: no major problems — all results acceptable w/attached qualifiers

NOTES: S³ altered all samples #'s — should read Bo

o Refer to the corresponding attachments for explanation of any problems.

OSM RCRA DATA ASSESSMENT (pg 2 of 2)

DATE 5/22/92

REVIEWED BY JA Lerch

LABORATORY S-Cubed

CASE # —

SDG # 2831

SAMPLES/MATRIX See cover

DATA ASSESSMENT SUMMARY

QUALITY CONTROL CHECK	ANALYSIS	Anions[1]	TOC	
1. Holding time		X	O	
2. Calibration		O	O	
3. Blanks		O	O	
4. Matrix Spike		X	O	
5. Replicate		O	NE	
6. Control Stds.		O	O	
7.				
8.				
9.				
10.				

O = data had no problems
X = minor problems, data may be qualified
M = data qualified due to major problems/some data may be unusable
NE - not evaluated

OVERALL ASSESSSMENT: See Cover

NOTES: —

o Refer to the corresponding attachments for explanation of any problems.

[1] Anions includes F, Cl, NO_2, NO_3, PO_4, SO_4

RCRA QC

Name JA Lerch JL Date 5/22/92

QC Check: Holding time

COMMENTS: Si- 6mo holding time met
Ammonia- 28 day holding time met for all samples
Alkalinity - 14 day HT met for all samples
Anions - NO_2, NO_3, PO_4 holding times exceeded; other anions ok
~~ACTION:~~ TOC - 28 day holding time met

sample #	constituent	value/qual	sample #	constituent	value/qual
all	NO_2	J, UJ			
	NO_3				
	PO_4				

RCRA QC

Name JA Lerch Date 5/22/92

QC Check: Calibration

COMMENTS: Si- all ICV, CCV recoveries ok (99-105%)
Ammonia- all ICV + CCV recoveries ok (92-107%)
Alkalinity- ~~all on~~ N/A
Anions- all calibration criteria met
~~ACTION:~~ TOC- all calibration criteria met

Action- none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA QC

Name JA Lerch JL Date 5/22/92

QC Check: Blanks

COMMENTS: Si - all calibration blanks free of contamination
Ammonia - all calibration blanks free of contamination
Alkalinity - all prep blanks free of contamination
Anions - all cal. blanks free of contamination for all ions
~~ACTION:~~ TOC - blanks free of contamination

Action - none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA QC

Name JA Lerch JL Date 5/22/92

QC Check: Matrix Spike

COMMENTS: Si- (B01395) - spike recovery ok (~100%)
Ammonia- (B0139S) - spike recovery ok (97.8%)
Alkalinity - (B0139S) - Spike recovery within 75-125% limits
Anions- (B0139S) - NO_2 recovery low; all other % 80-120%
~~ACTION:~~ TOC - (B01395) - ZR ok (~102%)

Action - qualify associated results as per OSM guidelines

sample #	constituent	value/qual	sample #	constituent	value/qual
all	NO_2	J, UJ			

RCRA QC

Name JA Lerch JL Date 5/22/92

QC Check: Replicate

COMMENTS: Si - (B0139R) - replicate RPD ok (<5)
Ammonia - (B0139R) - replicate RSD ok (<8)
Alkalinity - replicate RPD within ±20% limits
Anions - (B0139R) - all replicate RSD's ok (<11)

ACTION: none

sample #	constituent	value/qual	sample #	constituent	value/qual

RCRA QC

Name JA Lerch Date 5/22/92

QC Check: Control Stds.

COMMENTS: Si - LCS recovery acceptable (~105 %)
Ammonia - LCS recovery within 80-120% control limits
Alkalinity - LCS recovery within 80-120% control limits
Anions - all LCS recoveries within 80-120% control limits
~~ACTION:~~ TOC - LCS recovery 99.7% ok

Action: none

sample #	constituent	value/qual	sample #	constituent	value/qual

ALKALINITY ANALYSIS

LAB:	S-CUBED	DATA REVIEWER:	aN 3/9/92
CLIENT:	WHC	PROJECT REVIEWER:	
CASE:	SITE WIDE SOIL	CHARGE #:	32359-14
LOT #:	2831	DATE RECIEVED:	02/29/92
FILE #:	ALKs2831	DATE PREP:	03/05/92
DISK #:	ALK1016	DATE ANALYZED:	03/05/92
METHOD NO.:	EPA 310.1	MATRIX:	SOIL

RESULTS: RESULTS AS DRY WEIGHT - MG/KG

	LAB ID	CONCENTRATION
B0137	2831 -2	1100
B0139	2831 -4	150000
B0140	2831 -5	907
B0141	2831 -6	1580
B0142	2831 -7	673
B0143	2831 -8	768
B0144	2831 -9	686
B0145	2831 -10	1910
B0146	2831 -11	15100
B0147	2831 -12	11300
B0148	2831 -13	1200
B0150	2831 -15	434
B0153	2831 -16	601

COMMENTS:

ANIONS ANALYSIS

LABORATORY: S-CUBED
CLIENT: WHC
CASE: Site Wide Soil II
LOT #: 2831
FILE#: ANI2831
DISK#: ANI0306
METHOD NO.: 300.0

DATA REVIEWER: aw 3/9/92
PROJECT REVIEWER:
CHARGE #: 32359-14
DATE SAMPLED: 02/27/92
DATE PREP: 3/4-
DATE ANALYZED: 3/4-3/5
MATRIX: SOIL

RESULTS: UNIT AS MG/KG DRY WEIGHT

	LAB ID	F	CL	NO_2	NO_3	O-PO4	SO4
B0137	2831 -2	0.94	3.07	0.54 J	10.3 J	20.7 J	1.7
B0139	2831 -4	< 2	1.00	36.5 J	585	18.8	1260
B0140	2831 -5	0.94	0.88	< 0.3 UJ	12.4	3.13	13.
B0141	2831 -6	1.20	1.06	0.54 J	7.11	4.51	4.6
B0142	2831 -7	0.84	0.39	< 0.3 UJ	2.70	7.36	1.1
B0143	2831 -8	1.00	0.53	< 0.3 UJ	3.13	9.21	5.8
B0144	2831 -9	0.72	1.28	0.6 J	66.3	21.3	29.
B0145	2831 -10	0.68	0.56	< 0.3 UJ	6.12	3.40	6.1
B0146	2831 -11	0.95	0.52	< 0.3 UJ	21.0	23.4	5.0
B0147	2831 -12	1.19	0.55	< 0.3	30.5	18.2	6.4
B0148	2831 -13	1.79	0.71	< 0.3	53.9	18.3	12.
B0150	2831 -15	0.87	2.52	< 0.3	2.60	6.75 J	2.0
B0153	2831 -16	1.18	8.94	< 0.2	23.0 J	< 0.6 UJ	56.

JJ 5/22/92

AMMONIA ANALYSIS

LABORATORY:	S-CUBED	DATA REVIEWER:	CLN 3/6/92
PROJECT:	WHC	PROJECT REVIEWER:	
CLIENT:	SITE WIDE SOIL	CHARGE #:	32359-14
LOT #:	2831	DATE SAMPLED:	02/27/92
FILE NAME:	NH32831	DATE RECEIVED:	02/29/92
DISK NAME:	NH31024	PREP DATE:	03/03/92
METHOD:	350.3	DATE ANALYZED:	03/03/92
		MATRIX:	SOIL

LAB ID		CONCENTRATION, mg/kg
B0137	2831 -2	13.4
B0139	2831 -4	9.80
B0140	2831 -5	0.71
B0141	2831 -6	0.96
B0142	2831 -7	1.14
B0143	2831 -8	2.24
B0144	2831 -9	2.57
B0145	2831 -10	1.68
B0146	2831 -11	< 0.2
B0147	2831 -12	< 0.2
B0148	2831 -13	< 0.2
B0150	2831 -15	< 0.2
B0153	2831 -16	3.01

S - CUBED

Trace Inorganics Report

Client: WHC
Project: Site Wide Soil II
Sampling Date: 02/27/92

Analyts: PA
Review : UN 3/5/92
Receipt. Date: 02/29/92

Analyte: Si Matrix: Soil Units: mg/kg

S - CUBED Sample No.	Client Sample ID	Concentration	MDL
28312	B0137	53.13	6.010
28314	B0139	94.54	7.474
28315	B0140	110.90	5.889
28316	B0141	11.23	6.135
28317	B0142	75.43	5.411
28318	B0143	119.85	5.754
28319	B0144	34.60	5.348
283110	B0145	33.26	5.417
283111	B0146	682.02	7.052
283112	B0147	1206.89	7.102
283113	B0148	226.07	5.513
283115	B0150	113.45	5.447
283116	B0153	28.96	5.107

Method Detection Limit: 1000 µg/L
Preparation Method: 370.1
Analytical Method: 370.1
Preparation Date: 03/04/92
Analysis Date: 03/04/92

Comments:

All QC data and holding time were met.

MAXWELL
S-CUBED

ANALYTE:	TOC	CALIBRATION			QC SUMMARY		
METHOD REF.:	9060	STD 2000ppm	1997		CONC.	OBSERVE	%REC.
DATE:	3/3/92	STD 400ppm	397	MS	200	203.7	101.85
ANALYST:	AF/MM	STD 10ppm	10.10	LCS	2000	1994	99.7
MATRIX:	Soil	CAL BLANK	.084				
SAMPLE ALIQ.:	10mg						
UNIT:	mg/kg						
SDG:	2831						
PROJ.NAME:	site wide II						

	SAMPLE ID.	TOC Reading	DIL. FACTOR	TOC CONC. (mg/kg)	%MOIST.	FINAL CONC. (mg/kg)
	EBS0303	1.086	1	4.344	0	4.34
	LCS0303	1994	1	7976	0.00	7976.00
B0137	2831-2	446	10	17840	16.80	21442.31
B0139	2831-4	862.3	10	34492	33.20	51634.73
	2831-4MS	1066	10	42640	33.20	63832.34
B0140	2831-5	419.7	10	16788	15.10	19773.85
B0141	2831-6	280	10	11200	18.50	13742.33
B0142	2831-7	161.5	10	6460	7.60	6991.34
B0143	2831-8	267.8	10	10712	13.10	12326.81
B0144	2831-9	174.2	10	6968	6.50	7452.41
B0145	2831-10	122.95	10	4918	7.70	5328.28
B0146	2831-11	299.3	10	11972	29.10	16885.75
B0147	2831-12	416.95	10	16678	29.60	23690.34
B0148	2831-13	210.5	10	8420	9.40	9293.60
B0150	2831-14	92.36	10	3694.4	0.20	3701.80
B0153	2831-15	176	10	7040	8.20	7668.85

OSM INORGANIC DATA ASSESSMENT

DATE 3-24-92

REVIEWED BY Ted Washington for TW

LABORATORY S-Cubed

CASE # Site Wide Soil

SDG # 2831

SAMPLES/MATRIX

B0136	B0143	B0148	ALL SOILS
B0139	B0144	B0150	
B0140	B0145	B0153	
B0141	B0146		
B0142	B0147		

DATA ASSESSMENT SUMMARY

	ICP	AA	Hg	CN
1. Calibrations (Form II)	O	O	O	
2. Blanks (III)	X	O	O	
3. ICS (IV)	O			
4. Matrix Spike (V)	X	O	O	
5. Duplicate Analysis (VI)	O	O	O	
6. LCS (VII)	X	O		
7. Serial Dilution (IX)	X			
8. GFAA		X		
9. Holding Times (XIV)	O	O	O	
10. Other QC	O	O	O	

O = data had no problems
X = data qualified due to minor problems
M = data qualified due to major problems/some data may be unusable

OVERALL ASSESSSMENT: Acceptable with attached qualifiers.

NOTES: HEIS numbers in lower left hand corner of Form I's.

o Refer to the corresponding attachments for explanation of any problems.

ok to transmit

4/22/92

INORGANIC QC - Calibrations

Name Ted Washington for The Date 3-24-92

COMMENTS: ALL CALIBRATION REQUIREMENTS MET FOR ALL ANALYSIS, GFAA, ICP AND Hg.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Blanks

Name Ted Washington for TW Date 3-24-92

COMMENTS: The analyte antimony had contaminants present in its blank and thus was out of control. There was a possible false negative TW 3-24-92

ACTION: Qualified all affected analytes and samples (U) undetected TW 3-24-92 OR (J ~~and UJ~~) estimitated as per OSM protocols.

sample #	constituent	value/qual
B0136	Antimony	~~J~~ ~~UJ~~ U
B0147		
ALL OTHER SAMPLES	Antimony	UJ

sample #	constituent	value/qual

INORGANIC QC - ICS

Name Ted Washington for TW Date 3-24-92

COMMENTS: ALL ICS REQUIREMENTS WERE MET.

ACTION: NONE - NO ACTIONS REQUIRED.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - Matrix Spike

Name Ted Washington for TW Date 3-24-92

COMMENTS: THERE WERE TWO ANALYTES THAT WERE OUT OF CONTROL (ANTIMONY AND MANGANESE) FOR THE MATRIX SPIKE ANALYSES. SAMPLE B0139 MS WAS USED FOR THE ANALYSES.

ACTION: Qualified each analyte and affected samples (UJ or J) estimated as per CLP protocols.

sample #	constituent	value/qual
B0136	Antimony	UJ
B0147	↓	↓
B0136	Manganese	J
ALL OTHER samples	Antimony	UJ
	Manganese	↓

sample #	constituent	value/qual

INORGANIC QC - Duplicate Analysis

Name Ted WASHINGTON for TW Date 3-24-92

COMMENTS: ALL Duplicate analysis requirements were met. Beryllium was acceptable through the provisional requirements. Sample B0139-A (2831-4A) was used for analyses.

ACTION: None - no actions required.

sample #	constituent	value/qual
All samples	Beryllium	Acceptable

sample #	constituent	value/qual

INORGANIC QC - LCS

Name Ted Washington Date 3-24-92

COMMENTS: SODIUM WAS OUT OF CONTROL IN THE LABORATORY CHECK SAMPLE ANALYSIS.

ACTION: QUALIFIED SODIUM AND AFFECTED SAMPLES (UJ OR J) AS PER OSM PROTOCOLS.

sample #	constituent	value/qual
B0136	SODIUM	J
B0139		
B0140		
B0141		
B0146		
B0147		
		ACCEPTABLE
B0142	SODIUM	
B0143		
B0144		
B0145		
B0148		
B0150		
B0153		

sample #	constituent	value/qual

INORGANIC QC - Serial Dilution

Name Ted WASHINGTON for TW Date 3-24-92

COMMENTS: THERE WERE SEVERAL OUT OF CONTROL ANALYTES IN THE SERIAL DILUTION ANALYSIS. SAMPLE B0139 (2831-4L) WAS USED.

ACTION: QUALIFIED ALL OUT OF CONTROL ANALYTES AND SAMPLES (J OR UJ) ESTIMATED AS PER OSM PROTOCOLS.

sample #	constituent	value/qual	sample #	constituent	value/qual
ALL SAMPLES	BERYLLIUM	J			
	CHROMIUM				
	COPPER				
	COBALT				
	NICKEL				
	ZINC				

INORGANIC QC - Holding Times

Name Ted Washington Date 3-24-92

COMMENTS: ALL holding time requirements were met.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

INORGANIC QC - GFAA

Name Ted Washington Date 3-24-92

COMMENTS: THERE WERE THREE ANALYTES OUT OF CONTROL (ARSENIC, THALLIUM and selenium).

ACTION: QUALIFIED ALL ANALYTES and AFFECTED samples AS PER OSM PROTOCOLS.

sample #	constituent	value/qual
B0136	THALLIUM	UJ
B0141		
B0146		
B0147		
B0144	selenium	UJ
B0145		
B0147		
B0141	ARSENIC	J

sample #	constituent	value/qual

INORGANIC QC - other

Name Ted Washington for TW Date 3-24-92

COMMENTS: Acceptable with attached qualifiers.

ACTION: none - no actions required.

sample #	constituent	value/qual	sample #	constituent	value/qual

MAXWELL
S-CUBED Division

SORRENTO VALLEY OFFIC
3398 Carmel Mountain Road., San Diego, CA 92121-10
P.O. Box 1620, La Jolla, CA 92038-16

NARRATIVE

DATE: March 10, 1992
REFERENCE NO.: 32359-14, SDG 2831

VOLATILES

Samples were analysed by the CLP VOA procedures. No dilutions or reanalyses were required. Samples had trace levels of MeCl2, acetone and MEK. Samples BC139MS and MSD had elevated levels of acetone and MEK.

Surrogate, MS/MSD and LCS recoveries were acceptable. IS2 and IS3 problems were found in samples BC139 and BC139MSD. They were slightly outside the 50% window, however they were not rerun. Calibration QC was acceptable.

SEMIVOLATILES

Samples were analyzed by the CLP SVOA procedures. No dilutions or reanalysis were required. The samples were clean.

Surrogate, MS/MSD and LCS recoveries were good with the exception of 2,4-Dinitrotoluene which was at 95% in the MS and MSD. Calibrations were acceptable.

PESTICIDES

Organochlorine pesticides/PCBs were analysed by the EPA CLP procedures. Several samples were rerun due to retention time shifts. Samples had a few peaks but no confirmed hits. Sample 2831-4 had several peaks but did not match any PCBs.

Surrogates were not recovered in sample 2831-2. This may be due to a missed spike. MS/MSD and LCS recoveries were acceptable. Aldrin and gamma BHC were slightly (0.01 min) out of RTW in PEM05. Samples were checked for similar effects and no problems were found. All other calibration QC was good.

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

MAXWELL
S-CUBED Division

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3398 Carmel Mountain Road., San Diego, CA 92121-109
P.O. Box 1620, La Jolla, CA 92038-162

TRACE METALS

Metals were analysed by the EPA CLP methods for the TAL list and by SW-846 methods for Mo, Ti and Zr. Some samples had elevated levels of Al and Fe. Samples were diluted 1:2 to meet CLP final volume levels.

MS, Rep and LCS recoveries were within limits. No solid LCS was available for Zr and Ti. The aqueous LCS was digested by the soil method for Zr and Ti. Calibration and supporting QC was acceptable.

The equation for calculating results for ICP and GFAA is provided below:

$$\text{Final Concentration in mg/Kg} = \frac{A \times B \times C}{D \times E}$$

A = Raw data (mg/L)
B = Dilution factor
C = Final volume (L)
D = Sample weight (Kg)
E = Percent solids in decimal form

SILICA

The samples were analysed according to Method 370.1 with a 1:5 DI Leach for dissolved silica. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

AMMONIA

The samples were analysed according to Method 350.3 with a 1:5 DI Leach. There were no difficulties with the analysis. There were moderate levels detected in the samples.

The quality control results were acceptable.

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

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S-CUBED Division

SORRENTO VALLEY OFFI
3398 Carmel Mountain Road., San Diego, CA 92121-1
P.O. Box 1620, La Jolla, CA 92038-1

ALKALINITY

The samples were analysed according to Method 310.1 with a 1:5 DI Leach. There were no difficulties with the analysis. There were signifigant levels detected in the samples.

The quality control results were acceptable.

ANIONS

The samples were analysed according to Method 300.0 with a 1:5 DI Leach. There were no difficulties with the analysis. There were low levels detected in the samples.

The quality control results were acceptable.

TOC

TOC was analysed using the furnace modification to Method 9060. Samples were diluted 1:10 and moderate levels of organic carbon were present.

The quality control results were acceptable.

John DeWald
Manager, Commercial Analysis Section

Telephone (619) 453-0060 - FAX (619) 755-0474 - Division Office

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-2

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-2

Level (low/med): LOW Date Received: 02/29/92

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14400			P
7440-36-0	Antimony	29.1		~~W~~ N UJ	P
7440-38-2	Arsenic	4.0			F
7440-39-3	Barium	144			P
7440-41-7	Beryllium	1.7		J	P
7440-43-9	Cadmium	1.2			P
7440-70-2	Calcium	4980			P
7440-47-3	Chromium	21.6		J	P
7440-48-4	Cobalt	17.5		J	P
7440-50-8	Copper	24.8		J	P
7439-89-6	Iron	29600			P
7439-92-1	Lead	38.2			P
7439-95-4	Magnesium	5050			P
7439-96-5	Manganese	668		J ~~N~~	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	24.0		J	P
7440-09-7	Potassium	3610			P
7782-49-2	Selenium	0.96	U		F
7440-22-4	Silver	6.0			P
7440-23-5	Sodium	272	~~B~~	~~J~~	P
7440-28-0	Thallium	0.72	~~U~~	UJ	F
7440-62-2	Vanadium	64.7			P
7440-66-6	Zinc	60.6		J	P

JF for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0136

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7/88

02

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-2

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-2

Level (low/med): LOW Date Received: 02/29/92

% Solids: 83.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.3			P
7440-32-6	Titanium	1520			P
7440-67-7	Zirconium	27.2		J N	P

JF for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0136

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7/88

03

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-4

Lab Name: S_CUBED_____ Contract: 32359-14__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2831__

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-4____

Level (low/med): LOW__ Date Received: 02/29/92

% Solids: _66.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum_	7600			P_
7440-36-0	Antimony_	17.4	~~U~~	~~UJ N~~	P_
7440-38-2	Arsenic__	3.1			F_
7440-39-3	Barium___	190			P_
7440-41-7	Beryllium	0.90	~~B~~	J	P_
7440-43-9	Cadmium__	0.90	U		P_
7440-70-2	Calcium__	105000			P_
7440-47-3	Chromium_	7.2		J	P_
7440-48-4	Cobalt___	8.1	~~B~~	J	P_
7440-50-8	Copper___	19.5		J	P_
7439-89-6	Iron____	14800			P_
7439-92-1	Lead____	12.0			P_
7439-95-4	Magnesium	32300			P_
7439-96-5	Manganese	518		~~J N~~	P_
7439-97-6	Mercury__	0.15	U		CV
7440-02-0	Nickel___	12.3		J	P_
7440-09-7	Potassium	6410			P_
7782-49-2	Selenium_	1.2	U		F_
7440-22-4	Silver___	3.0	U		P_
7440-23-5	Sodium___	5120		J	P_
7440-28-0	Thallium_	0.90	U		F_
7440-62-2	Vanadium_	30.5			P_
7440-66-6	Zinc____	50.0		J	P_

JJ TW 4/22/92

Color Before: BROWN____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0139

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04

U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-4

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-4

Level (low/med): LOW Date Received: 02/29/92

% Solids: 66.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.2	U		P
7440-32-6	Titanium	808			P
7440-67-7	Zirconium	29.9	~~U~~	~~UJ~~ ~~N~~	P

JS 6-TW 4/22/92

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

B0139

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-5

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-5

Level (low/med): LOW Date Received: 02/29/92

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9940			P
7440-36-0	Antimony	13.7	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	7.7			F
7440-39-3	Barium	88.8			P
7440-41-7	Beryllium	0.94	~~B~~	J	P
7440-43-9	Cadmium	3.1			P
7440-70-2	Calcium	5650			P
7440-47-3	Chromium	19.6		J	P
7440-48-4	Cobalt	10.1	B	J	P
7440-50-8	Copper	31.8		J	P
7439-89-6	Iron	20300			P
7439-92-1	Lead	67.4			P
7439-95-4	Magnesium	5110			P
7439-96-5	Manganese	297		J ~~N~~	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	20.0		J	P
7440-09-7	Potassium	2020			P
7782-49-2	Selenium	0.94	U		F
7440-22-4	Silver	2.4	U		P
7440-23-5	Sodium	273	~~B~~	J	P
7440-28-0	Thallium	0.71	U		F
7440-62-2	Vanadium	43.6			P
7440-66-6	Zinc	356		J	P

JSLfor TW 12/9/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0140

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-5

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-5

Level (low/med): LOW Date Received: 02/29/92

% Solids: 84.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.3	U		P
7440-32-6	Titanium	1010			P
7440-67-7	Zirconium	23.6	~~U~~	UJN	P

4/22/92 for TW

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0140

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07

U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-6

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-6

Level (low/med): LOW Date Received: 02/29/92

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10200			P
7440-36-0	Antimony	14.2	~~U~~	~~UJ N~~	P
7440-38-2	Arsenic	27.7		J	F
7440-39-3	Barium	90.8			P
7440-41-7	Beryllium	0.98	~~B~~	J	P
7440-43-9	Cadmium	2.9			P
7440-70-2	Calcium	5820			P
7440-47-3	Chromium	20.4		J	P
7440-48-4	Cobalt	10.6	~~B~~	J	P
7440-50-8	Copper	32.9		J	P
7439-89-6	Iron	20800			P
7439-92-1	Lead	74.1			P
7439-95-4	Magnesium	5250			P
7439-96-5	Manganese	304		J ~~N~~	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	19.9		J	P
7440-09-7	Potassium	2100			P
7782-49-2	Selenium	0.98	U		F
7440-22-4	Silver	2.5	U		P
7440-23-5	Sodium	263	~~B~~	J	P
7440-28-0	Thallium	0.74	~~U~~	UJ	F
7440-62-2	Vanadium	44.7			P
7440-66-6	Zinc	366		J	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0141

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-6

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-6

Level (low/med): LOW Date Received: 02/29/92

% Solids: 81.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.4	U		P
7440-32-6	Titanium	1000			P
7440-67-7	Zirconium	24.5	U	UJ N	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0141

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-7

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-7

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6170			P
7440-36-0	Antimony	12.6	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	2.4			F
7440-39-3	Barium	76.0			P
7440-41-7	Beryllium	0.87	~~B~~	J	P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	3590			P
7440-47-3	Chromium	7.1		J	P
7440-48-4	Cobalt	9.5	~~B~~	J	P
7440-50-8	Copper	8.9		J	P
7439-89-6	Iron	20900			P
7439-92-1	Lead	8.4			P
7439-95-4	Magnesium	3550			P
7439-96-5	Manganese	333		J ~~N~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	10.8		J	P
7440-09-7	Potassium	1440			P
7782-49-2	Selenium	0.87	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	214	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	50.0			P
7440-66-6	Zinc	43.3		J	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0142

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1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-7

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-7

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	1730			P
7440-67-7	Zirconium	21.6	~~U~~	~~N~~	P

JL for TW 4/22/93

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0142

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-8

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-8

Level (low/med): LOW Date Received: 02/29/92

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	10400			P
7440-36-0	Antimony	13.3	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	7.0			F
7440-39-3	Barium	113			P
7440-41-7	Beryllium	1.2		J	P
7440-43-9	Cadmium	0.69	U		P
7440-70-2	Calcium	4210			P
7440-47-3	Chromium	13.6		J	P
7440-48-4	Cobalt	11.3	~~B~~	J	P
7440-50-8	Copper	12.4		J	P
7439-89-6	Iron	26900			P
7439-92-1	Lead	35.4			P
7439-95-4	Magnesium	4510			P
7439-96-5	Manganese	463		J ~~N~~	P
7439-97-6	Mercury	0.12	U		CV
7440-02-0	Nickel	14.3		J	P
7440-09-7	Potassium	2550			P
7782-49-2	Selenium	0.92	U		F
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	227	U		P
7440-28-0	Thallium	0.69	U		F
7440-62-2	Vanadium	61.4			P
7440-66-6	Zinc	62.8		J	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0143

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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-8

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-8

Level (low/med): LOW Date Received: 02/29/92

% Solids: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.2	U		P
7440-32-6	Titanium	1930			P
7440-67-7	Zirconium	26.2		J ~~N~~	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0143

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U.S. EPA - CLP

1

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-9

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-9

Level (low/med): LOW Date Received: 02/29/92

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6610			P
7440-36-0	Antimony	12.4	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	3.1			F
7440-39-3	Barium	62.0			P
7440-41-7	Beryllium	0.64	~~B~~	J	P
7440-43-9	Cadmium	0.64	U		P
7440-70-2	Calcium	3490			P
7440-47-3	Chromium	12.8		J	P
7440-48-4	Cobalt	6.4	~~B~~	J	P
7440-50-8	Copper	10.3		J	P
7439-89-6	Iron	14100			P
7439-92-1	Lead	8.1			P
7439-95-4	Magnesium	4110			P
7439-96-5	Manganese	289		J ~~N~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	13.5		J	P
7440-09-7	Potassium	1790			P
7782-49-2	Selenium	0.86	~~U~~	UJ	F
7440-22-4	Silver	2.1	U		P
7440-23-5	Sodium	211	U		P
7440-28-0	Thallium	0.64	U		F
7440-62-2	Vanadium	25.9			P
7440-66-6	Zinc	38.3		J	P

JJ for TW 4/22/92

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0144

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U.S. EPA - CLP

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-9

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-9

Level (low/med): LOW Date Received: 02/29/92

% Solids: 93.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	642			P
7440-67-7	Zirconium	21.4	~~U~~	UJ ~~N~~	P

JJ for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0144

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U.S. EPA - CLP

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-10

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-10

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6390			P
7440-36-0	Antimony	12.6	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	3.7			F
7440-39-3	Barium	66.5			P
7440-41-7	Beryllium	0.65	~~B~~	J	P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	5110			P
7440-47-3	Chromium	12.4		J	P
7440-48-4	Cobalt	6.9	~~B~~	J	P
7440-50-8	Copper	11.1		J	P
7439-89-6	Iron	14400			P
7439-92-1	Lead	5.4			P
7439-95-4	Magnesium	4270			P
7439-96-5	Manganese	288		J ~~N~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	14.3		J	P
7440-09-7	Potassium	1680			P
7782-49-2	Selenium	0.87	~~U~~	UJ	F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	214	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	26.0			P
7440-66-6	Zinc	38.8		J	P

JHG, TW 4/22/92

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0145

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-10

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL Lab Sample ID: 2831-10

Level (low/med): LOW Date Received: 02/29/92

% Solids: 92.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.0	U		P
7440-32-6	Titanium	633			P
7440-67-7	Zirconium	21.7	~~U~~	UJ ~~N~~	P

JF for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0145

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-11

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-11

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	28800			P
7440-36-0	Antimony	16.4	~~U~~	~~UJ~~ ~~N~~	P
7440-38-2	Arsenic	5.0		~~J~~	F
7440-39-3	Barium	241			P
7440-41-7	Beryllium	2.5		J	P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium	13900			P
7440-47-3	Chromium	26.5		J	P
7440-48-4	Cobalt	26.0		J	P
7440-50-8	Copper	40.3		J	P
7439-89-6	Iron	53600			P
7439-92-1	Lead	26.5			P
7439-95-4	Magnesium	9960			P
7439-96-5	Manganese	1100		J ~~N~~	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	31.3		J	P
7440-09-7	Potassium	7900			P
7782-49-2	Selenium	1.1	U		F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	336	~~B~~	J	P
7440-28-0	Thallium	0.85	~~U~~	~~UJ~~	F
7440-62-2	Vanadium	90.3			P
7440-66-6	Zinc	103		J	P

J for TW 7/22/92

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:

B0146

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-11

Lab Name: S_CUBED_____ Contract: 32359-14__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2831__

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-11___

Level (low/med): LOW__ Date Received: 02/29/92

% Solids: _70.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.9	U		P
7440-32-6	Titanium	2550			P
7440-67-7	Zirconium	73.3		J N	P

J for TW 4/22/92

Color Before: BLACK____ Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0146

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-12

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-12

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22900			P
7440-36-0	Antimony	17.9		~~J~~ N UJ	P
7440-38-2	Arsenic	5.4			F
7440-39-3	Barium	241			P
7440-41-7	Beryllium	2.3		J	P
7440-43-9	Cadmium	0.85	U		P
7440-70-2	Calcium	12300			P
7440-47-3	Chromium	22.7		J	P
7440-48-4	Cobalt	25.3		J	P
7440-50-8	Copper	39.8		J	P
7439-89-6	Iron	48300			P
7439-92-1	Lead	19.9			P
7439-95-4	Magnesium	9120			P
7439-96-5	Manganese	1110		J N	P
7439-97-6	Mercury	0.14	U		CV
7440-02-0	Nickel	28.7		J	P
7440-09-7	Potassium	7130			P
7782-49-2	Selenium	1.1	~~U~~	UJ	F
7440-22-4	Silver	2.8	U		P
7440-23-5	Sodium	284	~~B~~	J	P
7440-28-0	Thallium	0.85	~~U~~	UJ	F
7440-62-2	Vanadium	82.1			P
7440-66-6	Zinc	95.5		J	P

JL for TW 4/22/92

Color Before: BROWN Clarity Before: _____ Texture: MEDIUM

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:

B0147

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-12

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-12

Level (low/med): LOW Date Received: 02/29/92

% Solids: 70.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	4.0	U		P
7440-32-6	Titanium	2040			P
7440-67-7	Zirconium	59.7		J N	P

for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: COLORLESS Clarity After: Artifacts:

Comments:
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-13

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-13

Level (low/med): LOW Date Received: 02/29/92

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9980			P
7440-36-0	Antimony	12.8	~~U~~	~~UN~~	P
7440-38-2	Arsenic	2.5			F
7440-39-3	Barium	118			P
7440-41-7	Beryllium	1.1		J	P
7440-43-9	Cadmium	0.66	U		P
7440-70-2	Calcium	4240			P
7440-47-3	Chromium	12.4		J	P
7440-48-4	Cobalt	12.1		J	P
7440-50-8	Copper	12.4		J	P
7439-89-6	Iron	24900			P
7439-92-1	Lead	9.9			P
7439-95-4	Magnesium	4190			P
7439-96-5	Manganese	459		~~JN~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	13.9		J	P
7440-09-7	Potassium	2320			P
7782-49-2	Selenium	0.88	U		F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	218	U		P
7440-28-0	Thallium	0.66	U		F
7440-62-2	Vanadium	58.1			P
7440-66-6	Zinc	50.8		J	P

J for TW 7/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0148

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-13

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-13

Level (low/med): LOW Date Received: 02/29/92

% Solids: 90.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.1	U		P
7440-32-6	Titanium	1670			P
7440-67-7	Zirconium	27.2		J-N	P

JF for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
B0148

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-15

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-15

Level (low/med): LOW Date Received: 02/29/92

% Solids: 91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	6340			P
7440-36-0	Antimony	12.6	~~U~~	UJ ~~N~~	P
7440-38-2	Arsenic	2.6			F
7440-39-3	Barium	86.9			P
7440-41-7	Beryllium	0.87	~~B~~	J	P
7440-43-9	Cadmium	0.65	U		P
7440-70-2	Calcium	3570			P
7440-47-3	Chromium	7.4			P
7440-48-4	Cobalt	10.0	~~B~~	J	P
7440-50-8	Copper	10.0		J	P
7439-89-6	Iron	20900			P
7439-92-1	Lead	7.8			P
7439-95-4	Magnesium	3420			P
7439-96-5	Manganese	381		J ~~N~~	P
7439-97-6	Mercury	0.11	U		CV
7440-02-0	Nickel	9.6		J	P
7440-09-7	Potassium	1530			P
7782-49-2	Selenium	0.87	~~U~~	UJ	F
7440-22-4	Silver	2.2	U		P
7440-23-5	Sodium	215	U		P
7440-28-0	Thallium	0.65	U		F
7440-62-2	Vanadium	47.1			P
7440-66-6	Zinc	44.4		J	P

JF for TW 4/22/92

Color Before: BROWN Clarity Before: Texture: FINE

Color After: COLORLESS Clarity After: Artifacts:

Comments:
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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-15

Lab Name: S_CUBED_____ Contract: 32359-14__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2831__

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-15___

Level (low/med): LOW__ Date Received: 02/29/92

% Solids: _91.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	3.1	U		P
7440-32-6	Titanium	1560			P
7440-67-7	Zirconium	22.4		J N	P

J Fortw 4/22/92

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0150

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-16

Lab Name: S_CUBED Contract: 32359-14

Lab Code: S3 Case No.: SITE_ SAS No.: _____ SDG No.: 2831

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-16

Level (low/med): LOW Date Received: 02/29/92

% Solids: 97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	7870			P
7440-36-0	Antimony	11.8	~~U~~	~~N~~	P
7440-38-2	Arsenic	6.5			F
7440-39-3	Barium	132			P
7440-41-7	Beryllium	1.0		J	P
7440-43-9	Cadmium	0.61	U		P
7440-70-2	Calcium	2880			P
7440-47-3	Chromium	10.0		J	P
7440-48-4	Cobalt	8.0	~~B~~	J	P
7440-50-8	Copper	9.8		J	P
7439-89-6	Iron	22300			P
7439-92-1	Lead	9.2			P
7439-95-4	Magnesium	3600			P
7439-96-5	Manganese	201		J ~~N~~	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	6.5	~~B~~	J	P
7440-09-7	Potassium	1500			P
7782-49-2	Selenium	1.2			F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	202	U		P
7440-28-0	Thallium	0.61	U		F
7440-62-2	Vanadium	53.9			P
7440-66-6	Zinc	38.8		J	P

J for TW 4/22/92

Color Before: BROWN Clarity Before: _____ Texture: FINE

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0153

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2831-16

Lab Name: S_CUBED_____ Contract: 32359-14__

Lab Code: S3____ Case No.: SITE_ SAS No.: _____ SDG No.: 2831__

Matrix (soil/water): SOIL_ Lab Sample ID: 2831-16___

Level (low/med): LOW__ Date Received: 02/29/92

% Solids: _97.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7439-98-7	Molybdenu	2.9	U		P
7440-32-6	Titanium	1070			P
7440-67-7	Zirconium	24.1			P

JF for TW 4/22/92

Color Before: BROWN____ Clarity Before: _____ Texture: FINE__

Color After: COLORLESS Clarity After: _____ Artifacts: _____

Comments:
B0153

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