0044226 3696-SCU-148

SDG Memo/Sample Summary

Client Name:	WESTINGHOUSE HANFORD CO.	Date:	19 Jul 1993
Project Name:	93-172	Update No.:	
SDG No.:	3696	Work Order No.:	32468-20
Project Manager:	J. DEWALD		
Mail Date:			

Client Samp No.	S-Cubed Samp No.	Date Rcvd	Date Samp	Matrix	8010VOA	VOAOLM-L							
B08ML0	3696-01	6-21-1993	6-16-1993	WATER	X	X							
B08ML0DL	3696-01DL	6-21-1993	6-16-1993	WATER		(X)							
B08ML0MS	3696-01MS	6-21-1993	6-16-1993	WATER	X	X							
B08ML0MSD	3696-01MSD	6-21-1993	6-16-1993	WATER	X	X							
B08ML4	3696-02	6-21-1993	6-16-1993	WATER	X	X							
B08ML4DL	3696-02DL	6-21-1993	6-16-1993	WATER		(X)							
B08ML6	3696-03	6-21-1993	6-16-1993	WATER	X	X							
B08ML6DL	3696-03DL	6-21-1993	6-16-1993	WATER		(X)							
B08ML7	3696-04	6-21-1993	6-16-1993	WATER	X	X							

(X) = Non-Billable Sample

JUN 1996
RECEIVED
EDMC

SC-10, Rev 8/92

2

MAXWELL
S-CUBED Division

NARRATIVE

July 19, 1993

Narrative Project:	93-172
Reference No.:	32468-20
Client:	WHC
SDG No.:	3696

VOLATILES

Initial analysis by 8010 encountered instument problems due to high analyte concentrations in the samples and were run by 8240 with 25 ml purge in order to meet holding times. Only data from 8240 analysis are reported.

Water samples were analyzed on a Quadrex 70 meter megabore capillary column connected to a jet separator. Water samples were analyzed using a DynaTech PTA-30 autosampler which, due to automated surrogate and internal standard spiking, does not allow for variation of surrogate concentrations in the ICAL. Consequently all standards were spiked with surrogates at 50 ppb.

Non target compounds were reported as Tentatively Identified Compounds (TICs) with an estimated quantitation based on an assumed relative response factor of 1.0 using the closest internal standard as a reference. Peaks less than 10% of the area of the nearest internal standard were not reported.

All samples were analyzed within holding time constraints using low level techniques (25-ml purge). Three samples (B08ML0, B08ML4, and B08ML6) had to be diluted and re-analyzed due to the presence of Carbon Tetrachloride above the GC/MS calibration range. Sample B08ML4 had the highest concentration of Carbon Tetrachloride (5800-ppb). Siloxane column bleed was found in blanks and samples in like amounts and reported as TIC's.

The quality control results were acceptable. LCS recoveries were excellent, as were the recoveries and RPD's for B08ML0 MS/MSD. The surrogate d4-1,2-Dichloroethane failed low in the undiluted analyses of samples B08ML0,MS,MSD,B08ML4,and B08ML6. As mentioned above, these samples were diluted and re-analyzed with all surrogates passing QC requirements, thus demonstrating a true sample matrix effect. All initial and continuing calibration data are method compliant.

John DeWald
Project Manager
enclosures

r:\narr\n3696

LOT # 3696

Westinghouse Hanford Company

CHAIN OF CUSTODY

pg. 1 of 9

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations CCL4

Collection Date 6-17-93

Ice Chest No. SML-283

Field Logbook No. EFL-1057

Bill of Lading/Airbill No. 2519009934T

Offsite Property No. W93-0-0585-S

Method of Shipment EMERY

Shipped to S-CUBED

Possible Sample Hazards/Remarks N/A

Sample Identification

	METHOD
B08ML0 3, 40ml, Gs, WATER; VOA (.008% Na2S202)	8010

~~B08ML1~~ PCC 6/18/93
~~3, 40ml, Gs, WATER; CLP-VOA~~ PCC 6/18/93

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: 6/17/93 RCole RCole 1450	Received by: PHButcher PHButcher	Date/Time: 6/18/93 0730
Relinquished by: PHButcher PHButcher	Received by: Amy Smith A.Smith	Date/Time: 6/21/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: Reling to Eng 3B by PCC 6/17/93

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

LOT # 3696

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST pg. 2 of 9

PART I: FIELD SECTION

Collecto K. Lee, L. Walker Date Sampled 6-17-93 Time 1033 hours

Company P. H. Butcher Telephone (509) 376-5045

Sample Number	Number and Type of Sample	Type of Sample*	Analysis Requested
01 B08ML0	3, 40ml, Gs	WATER	VOA (.008% Na2S2O3) METHOD 8010
~~B08ML1~~	~~3, 40ml, Gs~~	~~WATER~~	~~CLP-VOA~~ PCC 6/18/93
			OPC: # W93- 0-0585-5
			BOL: # 2519000934T
			TASK: 93-172

Field

Special Handling and/or

Possible Sample

PART II: LABORATORY SECTION

Received Titl Date

Analysis

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

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

5 A-6000-406(05/90)

LOT # 3696

Westinghouse Hanford Company	CHAIN OF CUSTODY pg. 4 of 9

Custody Form Initiator PH BUTCHER
Company Contact PH BUTCHER
Project Designation/Sampling Locations CCL4
Ice Chest No. SMC-283
Bill of Lading/Airbill No. 2519009934T
Method of Shipment EMERY
Shipped to S-CUBED
Possible Sample Hazards/Remarks N/A

Telephone (509)376-5045
Collection Date 6/16/93
Field Logbook No. EFL-1057
Offsite Property No. W93-0-0585-5

Sample Identification	~~METHOD~~
B08ML4 3, 40ml, Gs, WATER; VOA(.008% Na2S2O3)	8010
~~B08ML5~~ PCC 6/18/93 ~~3, 40ml, Gs, WATER; CLP-VOA~~ PCC 6/18/93	

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: AJ SIMPSON AJ Simpson	Received by: PC Cole PC Cole	Date/Time: 6/18/93 0700
Relinquished by: PC Cole PC Cole	Received by: Amy Smith A. Smith	Date/Time: 6/19/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: Refrig 3-C

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

LOT #3696

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST pg. 5 of 9

PART I: FIELD SECTION

Collecto K. Lee, L. Walker Date Sampled 6/16/93 Time 1030 hours

Company P. H. Butcher Telephone (509) 376-5045

Sample Number	Number and Type of Sample	Type of Sample*	Analysis Requested
02 B08ML4	3, 40ml, Gs	WATER	VOA(.008% Na2S2O3) METHOD: 8010
~~B08ML5~~	~~3, 40ml, Gs~~	~~WATER~~	~~CLP VOA~~ PCC 6/18/93
			OPC: # W93-0-0585-5
			BOL: # 251900934T
			TASK: 93-172

Field

Special Handling and/or

Possible Sample

PART II: LABORATORY SECTION

Received Titl Date

Analysis

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

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

8 A-6000-406(05/90

LOT # 3696

Westinghouse Hanford Company

CHAIN OF CUSTODY

Pg. 7 of 9

Custody Form Initiator PH BUTCHER

Company Contact PH BUTCHER

Telephone (509)376-5045

Project Designation/Sampling Locations CCL4

Collection Date 6/17/93

Ice Chest No. SML-283

Field Logbook No. EFL-1057

Bill of Lading/Airbill No. 2519009 34T

Offsite Property No. W93-00585-5

Method of Shipment EMERY

Shipped to S-CUBED

Possible Sample Hazards/Remarks N/A

Sample Identification	~~METHOD~~
B08ML6 3, 40ml, Gs, WATER; VOA(.008% Na2S2O3)	8010
B08ML7 1 ~~3,~~ 40ml, Gs, WATER; CLP-VOA PCC 6/18/93	

[] Field Transfer of Custody	Chain of Possession	(Sign and Print Names)
Relinquished by: 6/17/93 PCCole PCCole 1450	Received by: PHButcher PHButcher	Date/Time: 6/18/93 0750
Relinquished by: PHButcher PHButcher	Received by: Amy Smith A. Smith	Date/Time: 6/21/93 11:00
Relinquished by:	Received by:	Date/Time:
Relinquished by:	Received by:	Date/Time:

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments: Relinq to Frig #3 by PCC 6/17/93

A-6000-407 (12/90) (EF) WEF061
Chain of Custody

LOT #3696

Westinghouse Hanford Company

SAMPLE ANALYSIS REQUEST pg. 8 of 9

PART I: FIELD SECTION

Collecto K. Lee, L. Walker Date Sampled 6/17/93 Time 1247 hours

Company P. H. Butcher Telephone (509) 376-5045

	Sample Number	Number and Type of Sample	Type of Sample*	Analysis Requested
03	B08ML6	3, 40ml, Gs	WATER	VOA(.008% Na2S2O3) METHOD: 8010
04	B08ML7	~~3,~~ 40ml, Gs (pcc 6/18/93)	WATER	CLP-VOA
				OPC: # W93-A-0585-5
				BOL: # 251900934T
				TASK: 93-172

Field

Special Handling and/or

Possible Sample

PART II: LABORATORY SECTION

Received Titl Date

Analysis

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

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

A-6000-406(05/90)

CATHEDRAL DELIVERY | SIGHT TUBE SECURITY

Contractor	OFF-SITE PROPERTY CONTROL	CONTROL NUMBER (To be obtained from PROPERTY MANAGEMENT)
WHG		W13-C-0385

PART I – TO BE COMPLETED BY ORIGINATOR

Department	Section	Unit
Env. Eng. & Tech.	Sciences	Geochem. & Hydrochem.

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

Routing ☒ Contractor ☐ Vendor

Shipped to	Off-site Custodian
SCHELD 8398 Carmel Mt. Rd. San Diego, CA 92121	
	Full Title

Quantity	Description (Include Serial and any Government Tag Numbers)	Original Cost
1	Sample #: 208ML6, 208ML7, 208ML0, 208ML4 Cooler ID#: SML-293	N/A
56 lbs.	Polycooler with groundwater samples packed in wet ice and vermiculite	

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

Necessity for the Off-Site Use of this Property	
Sampling supports RI/FS work in 200 W area	Bill of Lading 251400934T

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
[illegible]	13-48159	6/18/93

Location of Property (Area & Bldg.)	Contact	Phone
200W	[illegible]	509/376-[illegible]

Date Ready for Shipment	Cost Code to be Charged	Approximate Date This Property will be Returned
6/18/93	W1X1232 / P1-BE	N/A

Originated By	Date	Authorized By	Date
[illegible]	6/18/93	PH Gutherie	6/18/93

Signature and Name of Property Control	Custodian Date	Property Management Approval	Date
		[illegible]	6/18/93

PART II – TO BE COMPLETED BY SHIPPING

Signature of Recipient	Return Order No.	Date Issued	Purchase Order No.	Date Issued
Date 6-18-93				

DISTRIBUTION

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

54-3000-479 (09/89)

VT

Check ☐ GBL ☐ FCCOD ☐

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

(24)

EMERY WORLDWIDE

A CF Company

SERVICES **

UNITED STATES / CANADA: Same Day (Extra Charges) ☐ AM ☐ PM ☐ Second Day ☐ Saturday Delivery ☒

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

Shipper's Account Number: E 850281585

Date: 06-18-93 Origin: PSC Shipment Number: 251900934 T

From:
GHOUSE SHIPPING DEPT. (509) 376-6665
EPARTMENT OF ENERGY C/O
NGHOUSE HANFORD
BLDG 1163
235 STEVENS DRIVE
RICHLAND WA Canada ☐

To:
S-CUBED
S-CUBED
3398
CARMEL MT. ROAD
SAN DIEGO CA Canada ☐ Hold for Pick Up ☐

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.

Customer's Reference Numbers: W81232 P12BR W93-0-0585 #5 77352

Consignee's Account Number: E 92121

Description	Pcs	L	W	H	Total Pieces	Total Weight (in lbs)
PH BUTCHER 1 COOLER ID: SML 283 WATER SAMPLES	1	11	16	17	1	56

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

Declared Value $

251900934T

Remarks: SATURDAY DELIVERY-
SIGNATURE SECURITY SERVICE

Shipper's Signature X

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

Mark if Emery Packaging is used: Urgent Letter 9X12 ☐ Urgent Pak 12X15 ☒

International Shipments: Free Domicile ☐ Commodity Code

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

International Customs Value

International Insurance

Base Charge

Total Transportation Charges

Other Charges/Advance At Origin ☐ COD $

SAN-SAT

Terms and Conditions on back

15

MAXWELL
S-CUBED Division

Lot No. 3696

Sample Log-In Sheet
Revision No.: 0

Date Received: 6-21-1993 Date Sampled: 6-16-1993 Client Code: WHC DC No. ____-__-__

Time Received: 11:00 Data Due Date: 7-11-1993 Report Mail Date: 7-20-1993

Received by (Sig): Amy Smith Custody Seals Present/Intact (Y) N Reporting Level: FULL CLP

Airbill No. 2519009347 Chain of Custody Present/Intact (Y) N Turnaround Required: 30 DAY

Charge No. 32468-20 Client Forms Present (Y) N Quality Control Reqd'd: Level 3 (RCRA)

Case No./Project Code: 93-172 SDG No.: 3696

S-Cubed Sample No.	Sample Identification	Samp. Type	No. Cont.	Samp Stor.	Samp Cond	8010VOA									All Info Agree	Notes
3696-01	B08ML0	WATER	3	R9		X										
3696-01MS	B08ML0MS	WATER	3	R9		X										
3696-01MSD	B08ML0MSD	WATER	3	R9		X										
3696-02	B08ML4	WATER	3	R9		X										
3696-03	B08ML6	WATER	3	R9		X										
3696-04	B08ML7	WATER	3	R9		X										

Container Types

Water _____

Soil _____

Soil = Soil/Sediment/Sludge
Water = Aqueous
NAL = Non-Aqueous Liquid
NSS = Non-Soil Solid

Water MS,MSD _____

Soil MS,MSD _____

SDG Complete Y (N)

Review SD 6/21

16

SC-03, Rev 8/92

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML0

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-01
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH961
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	33	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	240	E
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	15	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	J
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B08ML0

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-01
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH961
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
Number of TICs found: 1 (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00556-67-2	Cyclotetrasiloxane,octameth	20.99	1	JBN

FORM I VOA-TIC 3/90

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML0DL

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-01DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL01
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 10.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	20	U
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	20	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	13	D
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	230	D
108-05-4	Vinyl Acetate	20	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	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	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

1E

EPA SAMPLE NO.

B08ML0DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-01DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL01
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 10.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.56	28	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	21	JBN
3.Z000-00-5	Unknown siloxane	25.42	13	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML4

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-02
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH962
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	1	U
67-64-1	Acetone	2	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	78	E
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	440	E
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	6	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

EPA SAMPLE NO.

B08ML4

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-02
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH962
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML4DL

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-02DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL62
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	400	U
74-83-9	Bromomethane	400	U
75-01-4	Vinyl Chloride	400	U
75-00-3	Chloroethane	400	U
75-09-2	Methylene Chloride	200	U
67-64-1	Acetone	400	U
75-15-0	Carbon Disulfide	200	U
75-35-4	1,1-Dichloroethene	200	U
75-34-3	1,1-Dichloroethane	200	U
540-59-0	1,2-Dichloroethene (total)	200	U
67-66-3	Chloroform	210	D
107-06-2	1,2-Dichloroethane	200	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon Tetrachloride	5800	D
108-05-4	Vinyl Acetate	400	U
75-27-4	Bromodichloromethane	200	U
78-87-5	1,2-Dichloropropane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	U
79-01-6	Trichloroethene	200	U
124-48-1	Dibromochloromethane	200	U
79-00-5	1,1,2-Trichloroethane	200	U
71-43-2	Benzene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-pentanone	400	U
591-78-6	2-Hexanone	400	U
127-18-4	Tetrachloroethene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
108-88-3	Toluene	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethyl Benzene	200	U
100-42-5	Styrene	200	U
1330-20-7	Xylene (total)	200	U

1E

EPA SAMPLE NO.

B08ML4DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-02DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL62
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.56	600	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	400	JBN
3.Z000-00-3	Unknown siloxane	25.44	200	J

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML6

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-03
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH963
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	18	B
67-64-1	Acetone	2	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	200	E
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	370	E
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	3	
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	0.6	J
127-18-4	Tetrachloroethene	1	
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

EPA SAMPLE NO.

B08ML6

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-03
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH963
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 1 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00556-67-2	Cyclotetrasiloxane,octameth	20.86	1	JBN

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML6DL

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-03DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL63
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	400	U
74-83-9	Bromomethane	400	U
75-01-4	Vinyl Chloride	400	U
75-00-3	Chloroethane	400	U
75-09-2	Methylene Chloride	200	U
67-64-1	Acetone	400	U
75-15-0	Carbon Disulfide	200	U
75-35-4	1,1-Dichloroethene	200	U
75-34-3	1,1-Dichloroethane	200	U
540-59-0	1,2-Dichloroethene (total)	200	U
67-66-3	Chloroform	350	D
107-06-2	1,2-Dichloroethane	200	U
78-93-3	2-Butanone	400	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon Tetrachloride	5000	D
108-05-4	Vinyl Acetate	400	U
75-27-4	Bromodichloromethane	200	U
78-87-5	1,2-Dichloropropane	200	U
10061-01-5	cis-1,3-Dichloropropene	200	U
79-01-6	Trichloroethene	200	U
124-48-1	Dibromochloromethane	200	U
79-00-5	1,1,2-Trichloroethane	200	U
71-43-2	Benzene	200	U
10061-02-6	trans-1,3-Dichloropropene	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-pentanone	400	U
591-78-6	2-Hexanone	400	U
127-18-4	Tetrachloroethene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
108-88-3	Toluene	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethyl Benzene	200	U
100-42-5	Styrene	200	U
1330-20-7	Xylene (total)	200	U

1E

EPA SAMPLE NO.

B08ML6DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-03DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL63
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.59	600	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	600	JBN
3.Z000-00-3	Unknown siloxane	25.45	400	J

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VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B08ML7

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-04
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH964
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
74-87-3	Chloromethane	2	U
74-83-9	Bromomethane	2	U
75-01-4	Vinyl Chloride	2	U
75-00-3	Chloroethane	2	U
75-09-2	Methylene Chloride	2	B
67-64-1	Acetone	2	U
75-15-0	Carbon Disulfide	1	U
75-35-4	1,1-Dichloroethene	1	U
75-34-3	1,1-Dichloroethane	1	U
540-59-0	1,2-Dichloroethene (total)	1	U
67-66-3	Chloroform	1	
107-06-2	1,2-Dichloroethane	1	U
78-93-3	2-Butanone	2	U
71-55-6	1,1,1-Trichloroethane	1	U
56-23-5	Carbon Tetrachloride	13	
108-05-4	Vinyl Acetate	2	U
75-27-4	Bromodichloromethane	1	U
78-87-5	1,2-Dichloropropane	1	U
10061-01-5	cis-1,3-Dichloropropene	1	U
79-01-6	Trichloroethene	1	U
124-48-1	Dibromochloromethane	1	U
79-00-5	1,1,2-Trichloroethane	1	U
71-43-2	Benzene	1	U
10061-02-6	trans-1,3-Dichloropropene	1	U
75-25-2	Bromoform	1	U
108-10-1	4-Methyl-2-pentanone	2	U
591-78-6	2-Hexanone	2	U
127-18-4	Tetrachloroethene	1	U
79-34-5	1,1,2,2-Tetrachloroethane	1	U
108-88-3	Toluene	1	U
108-90-7	Chlorobenzene	1	U
100-41-4	Ethyl Benzene	1	U
100-42-5	Styrene	1	U
1330-20-7	Xylene (total)	1	U

1E

EPA SAMPLE NO.

B08ML7

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-04
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: WH964
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 06/30/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 1.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 2 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.38	3	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	20.82	1	JBN

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B08ML0DL

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-01DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL01
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 10.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.56	28	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	21	JBN
3.	Unknown siloxane	25.42	13	J

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1E

EPA SAMPLE NO.

B08ML4DL

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-02DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL62
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.56	600	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	400	JBN
3.	Unknown siloxane	25.44	200	J

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B08ML6DL

Lab Name: S-CUBED Contract: 32468-20
Lab Code: S3 Case No.: 93-172 SAS No.: SDG No.: 3696
Matrix: (soil/water) WATER Lab Sample ID: 3696-03DL
Sample wt/vol: 25.00 (g/ml)ML Lab File ID: RDL63
Level: (low/med) LOW Date Received: 06/21/93
%Moisture: not dec. 100.00 Date Analyzed: 07/01/93
GC Column: CAP ID: 0.53 (mm) Dilution Factor: 200.00
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number of TICs found: 3 CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.00541-05-9	Cyclotrisiloxane,hexamethyl	15.59	600	JBN
2.00556-67-2	Cyclotetrasiloxane,octameth	21.02	600	JBN
3.	Unknown siloxane	25.45	400	J

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