



40133



ROY F. WESTON, INC.
THREE HAWTHORN PARKWAY, SUITE 400
VERNON HILLS, ILLINOIS 60061
708-918-4000

26 July 1991

Mr. Mike Gifford, 5HS-11
Remedial Project Manager
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, IL 60604

EPA Contract No.: 68-W8-0089

Work Assignment No.: 028-5PX9

Document Control No.: 4500-28-ADWP

Subject: Partial Transmittal of Analytical Results

Dear Mr. Gifford:

Most of the analytical results of the split sampling exercise of April 1991 are enclosed for your information. We will transmit the remaining results as soon as they are received.

Very truly yours,

ROY F. WESTON, INC.

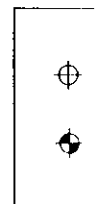
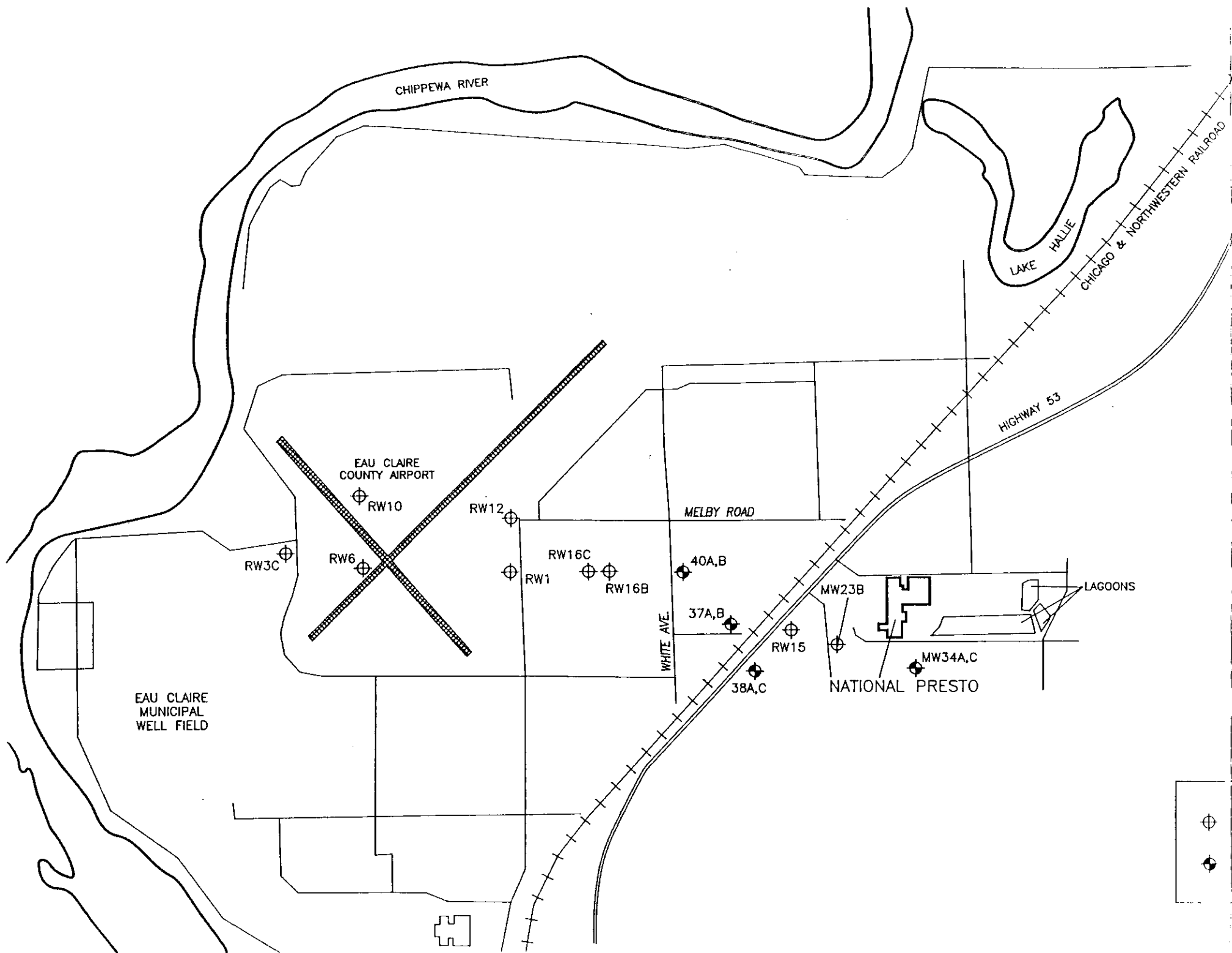
Robert H. Gilbertsen, P.E.
Site Manager

RHG/sk

Enclosure

cc: P. Krishnan, WESTON
O. Patel, WESTON

\\WO\\ARCS\\4910.LTR



RECEIVED

JUN 17 1991

~~FILE COPY~~

1 of 8

4500-28-ADTB

REGION V
VERNON HILLS, IL

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/12/91

SUBJECT: Review of Region V CLP Data
Received for Review on May 7, 1991

FROM: Charles T. Elly, Director (5SCRL)
Central Regional Laboratory

Patrick F. Churchill for

TO: Data User: Weston

We have reviewed the data for the following case(s).

SITE NAME: National Presto Industries ^(W1) SMO Case No. 16246 SAS 6092E

EPA Data Set No. (1) No. of DU/Activity
Samples 15 Numbers TGB, TGB102

CRL No. 912G05S01, S03, S05, R07, S08, S10, R12, S13, S15, R17, S19, D19, S24, R, S22,

SMO Traffic No. EKP85 - 89, 92, 94 - 97 EKZ 76, 77, 79 - 81
+ (PV 453) am

CLP Laboratory: S-CUBED Hrs. for Review 15 + 2 = 17
W. Miller

Following are our findings:

PLEASE
READ
QUALIFIERS
MB

- () Data are acceptable for use.
- ☒ Data are acceptable for use with qualifications.
- () Data are preliminary - pending verification by laboratory.
- () Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

CONTRACTOR: S-CUBED

CASE 16246 SAS 6092E

Below is a summary of the out of control audits and the possible effect on the data for the case:

CASE 16246 SAS 6092E

Fifteen (15) samples were assigned SDG #EKP85 for volatile analysis only by SOW 01WC01. The analysis was performed by S-Cubed Laboratories. Samples EKZ79, EKZ80, and EKZ81 are trip blanks, sample EKP97 is a field blank, and samples EKP86 and EKP92 are duplicates.

1. HOLDING TIME

<u>Sample</u>	<u>Sampling Date</u>	<u>Analysis Date</u>
EKZ79	4/16/91	4/22/91
EKP85	4/16/91	4/22/91
EKP87	4/17/91	4/22/91
EKP88	4/17/91	4/22/91
EKP89	4/17/91	4/24/91
EKZ76	4/17/91	4/23/91
EKZ80	4/17/91	4/23/91
EKP94	4/18/91	4/23/91
EKP95	4/18/91	4/23/91
EKP97	4/18/91	4/23/91
EKP86	4/18/91	4/22/91
EKP92	4/18/91	4/23/91
EKZ77	4/19/91	4/24/91
EKP96	4/19/91	4/24/91
EKZ81	4/19/91	4/24/91
EKP88DL	4/17/91	4/24/91
EKP86DL	4/18/91	4/24/91
EKP92DL	4/18/91	4/25/91
EKZ77DL	4/19/91	4/25/91
EKP96DL	4/19/91	4/25/91

The QC requirement for 7 day volatile analysis was met for all samples.

2. GC/MS TUNING AND GC PERFORMANCE

GC/MS tuning complied with the mass list and ion abundance criteria for BFB. Tuning was provided for each 12 hour period. GC performance was acceptable.

Reviewed by: Robert W. Wenig
Phone: (312) 886 2922
Date: May 21, 1991

CONTRACTOR: S-CUBED

CASE 16246 SAS 6092E

3. CALIBRATION

Initial and continuing calibration outliers for volatile TCLs are included on the attached calibration forms.

For the initial calibration of 4/4/91 (continued 4/22-4/25/91) the minimum RF criteria was not met for 1,2-Dichloroethane, bromo-chloromethane, and 1,1,2,2-tetrachloroethane. Therefore, positive results for these compounds are qualified as estimated (J) and the quantitation limits are qualified unusable (R). See the attached calibration outlier forms for details.

4. BLANKS

VBLK01, VBLK02, VBLK03, VBLK04 are the low level water method blanks. VSBLK18, VSBLK19, VSBLK20 are the low level water storage blanks.

* Common contaminants observed in a method blank and present in any associated samples at $<10 \times$ the blank result are qualified (U) nondetected. Non-common contaminants are qualified using the 5x criteria.

Blank VBLK01 was analyzed 4/22/91 and was found to contain methylene chloride, acetone, trans 1,2-dichloroethene, 1,2-dichloropropane, benzene, toluene, styrene, total xylenes, and 1,3-dichlorobenzene below the quantitation limits (TICs were not observed). In addition, chloroform and 2-butanone were identified on FORM 1LCA, but were initialed out by the laboratory. Although no contaminants were identified above the CRQLs, the presence of nine or more TCLs in a blank indicates a significant contamination problem. Qualification criteria are the same as noted above (*).

Blank VBLK02 was analyzed 4/23/91 and was found to contain no TCL or TIC compounds.

Blank VBLK03 was analyzed 4/24/91 and was found to contain methylene chloride and acetone below the quantitation limits. No TICs were observed. Qualification criteria are the same as noted above (*).

Blank VBLK04 was analyzed 4/25/91 and was found to contain methylene chloride and acetone below the quantitation limits. No TICs were observed. Qualification criteria are the same as noted above (*).

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CONTRACTOR: S-CUBED

CASE 16246 SAS 6092E

Storage blanks VBLK18 and VBLK19 were found to contain methylene chloride and acetone below the quantitation limits. No TIC compounds were observed.

Storage blank VBLK20 was found to contain acetone at 6.2 Ug/L and methylene chloride below the quantitation limit. No TIC compounds were observed. According to the technical acceptance criteria for blank analysis (VOA D-38 OLC01.0) the concentration of TCLs in a blank must be < CRQL for each target compound. Therefore, storage blank VBLK20 is technically unacceptable.

5. SURROGATE RECOVERIES

All water volatile surrogate recoveries were acceptable.

6. LABORATORY CONTROL SAMPLE AND PE SAMPLE

All volatile LCS sample recoveries were within the 40-160% QC limits.

The volatile PE sample is designated PV455. The laboratory reported 20.3 Ug/L vinyl chloride, 2.9 Ug/L (J) 2-butanone, 7.5 Ug/L bromodichloromethane, 0.1 Ug/L (J) trichloroethene, 8.6 Ug/L 1,1,2-trichloroethane, 0.1 Ug/L tetrachloroethene, 9.6 Ug/L tetrachloroethane, 1.4 Ug/L ethylbenzene, and 14.3 Ug/L styrene. No TICs were reported.

7. FIELD BLANKS AND DUPLICATES

Samples EKZ79, EKZ80, and EKZ81 are trip blanks; sample EKP97 is a field blank; samples EKP86 and EKP92 are duplicates.

Trip blank EKZ79 was found to 5.2 Ug/L chloroform (CRQL=1.0) and carbon disulfide, 1,1,1-trichloroethane, bromodichloromethane below the quantitation limits. No TICs were reported. Acceptable blanks are not permitted to contain TCLs above the CRQLs.

Trip blank EKZ80 was found to contain 5.2 Ug/L chloroform (CRQL=1.0) and methylene chloride, acetone, carbon disulfide, 1,1,1-trichloroethane, and bromodichloromethane below the quantitation limits. No TICs were reported. Acceptable blanks are not permitted to contain TCLs above the CRQLs.

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Phone: (312) 886 2922
Date: May 21, 1991

CONTRACTOR: S-CUBED

CASE 16246 SAS 6092E

Trip Blank EKZ81 was found to contain 5.1 Ug/L chloroform (QRQL=1.0) and carbon disulfide, 1,1,1-trichloroethane, bromodichloromethane, trichloroethene, and toluene below the quantitation limits. No TICs were reported. Acceptable blanks are not permitted to contain TCLs above the CRQLs.

Field Blank EKP97 was found to contain 5.3 Ug/L chloroform (CRQL=1.0) and methylene chloride, carbon disulfide, 1,1,1-trichloroethane, and bromodichloromethane below the quantitation limits. No TICs were reported. Acceptable blanks are not permitted to contain TCLs above the CRQLs.

Sample EKP86 and duplicate EKP92 were found to contain the following TCLs:

<u>Compound</u>	<u>Sample EKP86</u>	<u>Duplicate EKP92</u>
1,1-dichloroethene	7.4 Ug/L	6.8 Ug/L
1,1-dichloroethane	8.7 "	8.0 "
carbon disulfide	0.2 "	0.2 "
chloroform	0.3 "	0.3 "
1,1,1-trichloroethane	112.5 " (E)	74.5 " (E)
trichloroethene	15.3 "	14.9 "
1,1,2-trichloroethane	0.2 "	0.2 "
tetrachloroethene	1.2 "	1.2 "
methylene chloride	U	0.1 "
acetone	U	0.6 "
trans 1,2-dichloroethene	U	0.3 "
toluene	U	0.2 "

Agreement between the sample and the duplicate is acceptable, although methylene chloride, acetone, trans 1,2-dichloroethene, and toluene were observed below the CRQL in the duplicate and were not observed in the sample.

8. INTERNAL STANDARDS

All water volatile internal standards were acceptable.

9. COMPOUND IDENTIFICATION

All water volatile compound identifications were acceptable.

Reviewed by: Robert W. Wenig
Phone: (312) 886 2922
Date: May 21, 1991

CONTRACTOR: S-CUBED

CASE 16246 SAS 6092E

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The reported quantitations and detection limits for water volatile samples are acceptable.

11. SYSTEM PERFORMANCE

GC/MS baseline was acceptable. GC/MS sensitivity and resolution was acceptable.

12. ADDITIONAL CASE SPECIFIC PROBLEMS

No additional problems were noted.

13. OVERALL ASSESSMENT

Appropriate dilutions were made when TCLs were identified above the linear calibration range (1-25 Ug/L). Results for TCLs flagged "E" on the original analysis should be taken from the diluted sample analysis (given by "DL" suffix). Such diluted results will be flagged "D" on the FORM 1 for the diluted sample. As an example, 1,1,1-trichloroethane was reported as 112.5 Ug/L (E) in sample EKP86 and 38.5 Ug/L (D) in sample EKP86DL. The correct value to be reported to the "user" is 38.5 Ug/L (flagged as "D") in sample EKP86DL.

Minimum RFs were not met for 1,2-dichloroethane, bromochloromethane, and 1,1,2,2-tetrachloroethane in initial and continuing calibrations. Therefore, positive results for these compounds are qualified as estimated (J) and the quantitation limits are qualified unusable (R). See the attached calibration outlier forms for details.

Storage blank VBLK20 was found to contain acetone above the CRQL. Trip blanks EKZ79, EKZ80, EKZ81, and field blank EKP97 were found to contain chloroform above the CRQL.

Reviewed by: Robert W. Wenig
Phone: (312) 886 2922
Date: May 21, 1991

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS

CASE/SAS# 10246 / 0092E

(page 1)

CONTRACTOR S-Cubed

INSTRUMENT#	DATE/TIME	12:15		14:07		10:09		15:13		15:02	
		INIT CAL		CONT CAL		CONT CAL		CONT CAL		CONT CAL	
		MIN	4/14/91	4/22	4/22	4/22	4/22	4/22	4/22	4/22	4/22
		RRF	R	%	R	R	%	R	%	R	%
Bromomethane	0.1										
Vinyl Chloride	0.1										
1,1-Dichloroethane	0.4										
1,1-Dichloroethene	0.1										
Chloroform	0.2										
1,2-Dichloroethane	0.1			0.17	27.7 R	0.17	25.8 R	0.17	27.7 R		
1,2-Dibromoethane	0.1										
1,1,1-Trichloroethane	0.1										
Carbon Tetrachloride	0.1										
Bromochloromethane	0.1	0.09	15.9 R	0.07	18.7 R	0.07	18.7 R	0.07	18.7 R	0.07	18.7 R
Bromodichloromethane	0.2										
trans-1,3-Dichloropropene	0.1										
Trichloroethene	0.3										
Dibromochloromethane	0.1										
Benzene	0.5										
cis-1,3-Dichloropropene	0.2										
Bromoform	0.1										
Tetrachloroethene	0.2										
1,1,2,2-Tetrachloroethane	0.5	0.1	9.3 R	0.2	6.1 R	0.2	4.6 R	0.2	5.4 R	0.2	5.6 R
Toluene	0.4										
Chlorobenzene	0.5										
Ethylbenzene	0.1										
Styrene	0.3										
Xylenes (total)	0.3										
1,1,2-Trichloroethane	0.1										
1,2-Dichlorobenzene	0.4										
1,3-Dichlorobenzene	0.6										
1,4-Dichlorobenzene	0.5										
1,4-Bromofluorobenzene	0.2										
AFFECTED						VLCS01	EXP92	EXP89	7V455		
SAMPLES:						EA275	EXP94	EXP88DL	EXP94DL		
						EXP85	EXP95	EXP84DL	EXP92DL		
						EXP87	EXP97	EXP277	EXP277DL		
						EXP88	EXP76	EXP81	VBK20		
						EXP84	EXP80	EXP96	VBK04		
						VBK01	VBK19	VBK03			
							VBK18				
							VBK02				

Reviewer's
Initials/Date: PWW / 5-21-91

* These flags should be applied to the analytes on the sample data sheets.

PAGE 8 OF 8

CONTRACTOR *S-lobed*

SEE PAGE 1 FOR AFFECTED SAMPLES

Reviewer's Initials/Date: RWW / 5-21-91



DATA REPORTING QUALIFIERS - PAGE 1

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE - If the result is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

U - Indicates compound was analyzed for but not detected. The sample Quantitation Limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U}) \times df}{D} \quad \text{where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

$$\text{At 24\% moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330 \text{ U}) \times 10}{.76} = 4300 \text{ U} \text{ rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However if a sample extract cannot be concentrated to the protocol-specified volume, this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/l, but a concentration of 3 ug/l is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.



DATA REPORTING QUALIFIERS - PAGE 2

- P** - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- C** - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined flag, discussed below.
- B** - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E** - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D** - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- A** - This flag indicates that a TIC is a suspected aldol-condensation product.
- X** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X", "Y", and "Z".

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

4-17-91 thru

ORG: 5-CUBED

DATE SHIPPED 4-23-91

PAGE 1 OF 3

WATER OR LIQUIDS

SEDIMENTS in SOILS

MAY 06 1991

A. D. Mann

MAY 01 1991

4-17-91 thru

DATE SHIPPED 4-23-91

- PAGE 2 of 3

(WATER) OR LIQUIDS

SEDIMENTS and SOILS

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER SAS Pack#	INORGANIC TRAFFIC REPORT NUMBER	BASE NEUTRAL CPDS ORGANIC SCAN US L TOX1737A VOLATILE ORGANIC ANALYSIS ORGANIC SCAN US L TOX1736A WATER POLYCHLORINATED BIPHENYLS US L PES 1714A WATER CHLORINATED PESTICIDES G L PES1713A TOTAL METALS IN WATER US L MET111 WATER CYANIDE US L MMT74919 NITRATE NITRITE MG L MMT728A AMMONIA MG L MMT729A RESIDUE FILTERABLE TDS MG L MMT730Z RESIDUE NON-FILT TSS MG L MMT732Z	ACID-BASE NEUTRAL CPDS ORGANIC SCAN MG EG TOX21572Z VOLATILE ORGANIC ANALYSIS ORGANIC SCAN MG EG TOX21582Z SEDIMENTS POLYCHLORINATED BIPHENYLS MG EG PES2112Z SEDIMENTS CHLORINATED PESTICIDES MG EG PES2113Z TOTAL METALS MG EG MET212Z CYANIDE MG EG MMT222D SP TRACE METALS MG EG AMM222A AMMONIA MG EG MMT222B
912605 D19	EKP 92	X		
S21				
S22	EKZ 77	X		
S23				
S24	EKP 96	X		
S25				
Drip Blank R26	EKZ 81	X		
Field Blank K27	EKZ 78	X		
S28				
S29	EKP 98	X		
S30				
S31	EKZ 84	X		
S32	EKP 99	X		
S33				
Drip Blank R34	EKZ 85	X		
S35	EKZ 86	X		
S36				
S37	EKZ 87	X		
S38	EKZ 83	X		



Case Number	SAS No. (if applicable)
16246	

1. Sample Description (Enter in Column A)	2. Region Number	3. Sampling Co.	4. Date Shipped	Carrier	5. Date Received	Received by
1. Surface Water 2. Ground Water 3. Leachate 4. Rinse 5. Soil/Sediment 6. Oil (SAB) 7. Waste (SAS) 8. Other (SAS) (Specify)	IV	WESTON	4/18/91	FedEx	4-19-91	[Signature]
	Sampler (Name)	Airbill Number	Laboratory Contract Number		Unit Price	
	Darlene Williams	7862596770	65A90027			
	3. Ship To:	Triple volume required for matrix spike/duplicate aqueous sample.		6. Transfer to		Date Received
	S-Cubed 33512 Carmel Mtn. Rd. San Diego, CA 92121 Attn: Elaine Walters	Ship medium and high concentration samples in paint cans.		Received by		
IF VOA SAMPLE PRESERVED INDICATE IN COLUMN C WITH Y OR N.	See reverse for additional instructions		Contract Number		Price	

[illegible]

U

Unit Price

Date Received	
1960	10/10/60
1961	10/10/61
1962	10/10/62
1963	10/10/63
1964	10/10/64
1965	10/10/65
1966	10/10/66
1967	10/10/67
1968	10/10/68
1969	10/10/69
1970	10/10/70
1971	10/10/71
1972	10/10/72
1973	10/10/73
1974	10/10/74
1975	10/10/75
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2003	10/10/03
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2006	10/10/06
2007	10/10/07
2008	10/10/08
2009	10/10/09
2010	10/10/10
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2015	10/10/15
2016	10/10/16
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2019	10/10/19
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2078	10/10/78
2079	10/10/79
2080	10/10/80
2081	10/10/81
2082	10/10/82
2083	10/10/83
2084	10/10/84
2085	10/10/85
2086	10/10/86
2087	10/10/87
2088	10/10/88
2089	10/10/89
2090	10/10/90

[illegible]

CLP Sample Number (From labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis				(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below)		
			VOA	BNA	Pest/PCB	ARO/TOX						Solid	Water-MIS Liq.	Non Water-MIS Liq.
EKP97	2	L	X					NPI-	GW03-01	4/17/91 1245	OK			
EKP98	2	L	X						GW04-01	4/17/91 1515				
EKP95	2	L	X						GW01-01	4/16/91 1930				
EK279	2	L	X					File Blank	TB01-01	4/16/91 1300	✓			
Case Incomplete														



24

Price

Case Incomplete



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report (For CLP Use Only)

Case Number

SAS No. (if applicable)

16246

6092E

1. Sample Description (Enter in Column A)

1. Surface Water

2. Groundwater

3. Leachate

4. Airborne

5. Soil/Sediment

6. Oil (SAS)

7. Waste (SAS)

8. Other (SAS) (Specify)

If VOC sample PRESERVED INDICATE IN
COLUMN C WITH Y OR N.

2. Region Number

V

Sampling Co.

WESTON

4. Date Shipped

4/19/91

Carrier

Fed. Ex

5. Date Received

4-20-91

Received by

[Signature]

Sampler (Name)

Darlene Williams

Airbill Number

7862596755

Laboratory Contract Number

68D90027

Unit Price

3. Ship To:

S-Cubed
3395 Camino H.N.K.I.
San Diego, CA 92121
H.N.K.I. Walter

Triple volume required for matrix
spike/duplicate aqueous sample.

Ship medium and high concentration
samples in paint cans.

See reverse for additional instructions.

6. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Number (From label)	(A) Sample Descrip- tion (From box 1)	(B) Concen- tration L=low M=med H=high	(C) RAS Analysis				(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below)		
			VOA	BNA	Pest/ PCB	ARO/ TOX						Solid	Wa- ter- MIS Liq.	Non Wa- ter- MIS Liq.
EK277	2	L	X					NPI-	GLUC7-014/19/91 1230		OK			
EK296	2	L	X						GLUC2-014/19/91 1245					
EK281	2	L	X				Tr. Blank		TR03-014/19/91 1100					
PV455			X				Bec'd 4-26-91							
Last sample received for the SDB														
Clear Incomplete														

May 3, 1991

Vol 1 of 1

Narrative Case: 16246 SAS 6092E
S-CUBED Contract No. 68D90027

RECEIVED

MAY 07 1991

U.S. EPA CENTRAL REGIONAL LAB.
536 S. CLARK ST.
CHICAGO, ILLINOIS 60605

This case consists of the following samples reported under SDG : EKP85

EKP87	EKP86	EKP95	EKZ77
EKP88	EKP89	EKP97	EKZ81
EKP85	EKP92	EKZ76	EKP96
EKZ79	EKP94	EKZ80	PV455 (VOA PEM)

Notes: This SDG is for volatile analysis only.

Dilution Summary:

VOA EKP86 (1:5) EKP88 (1:10) EKP92 (1:5) EKP96 (1:4) EKZ77 (1:5)

Volatile samples EKP86, EKP88, EKP92, EKP96, and EKZ77 required dilution due to high levels of 1,1,1-trichloroethane. The holding time for the analysis of sample EKP92DL was exceeded by 1 day. The minimum RRFs for 1,2-dichloroethane, bromochloromethane, and 1,1,2,2-tetrachloroethane were noncompliant for the initial and continuing calibration standard analyses.

Several modifications of the volatile protocol have been necessary to achieve the most accurate data. The quantitation mass of 4-bromofluorobenzene has been changed from m/e 95 to m/e 174 due to an interference in the calibration standards from 1,1,2,2 tetrachloroethane.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Mark O Hatcher

Date: 5/3/91

Mark Hatcher, Acting Project Manager

2LCA
LOW CONC. WATER VOLATILE SURROGATE RECOVERY

Lab Name: S-Cube Contract: 68-79-0027
Lab Code: 53 Case No.: 16246 SAS No.: 6092E SDG No.: EKP85

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	EKP85	88		0
02	EKP86	87		0
03	EKP87	86		0
04	EKP88	86		0
05	EKP89	90		0
06	EKP90	87		0
07	EKP91	91		0
08	EKP92	86		0
09	EKP93	89		0
10	EKP94	90		0
11	EKP95	89		0
12	EKP96	88		0
13	EKP97	87		0
14	EKP98	87		0
15	EKP99	90		0
16	EKP100	92		0
17	EKP101	93		0
18	EKP102	89		0
19	EKP103	91		0
20	EKP104	87		0
21	EKP105	92		0
22	EKP106	92		0
23	PV455	91		0
24	USBLK20	87		0
25	USBLK18	86		0
26	USBLK19	88		0
27	USBLK01	87		0
28	USBLK02	94		0
29	USBLK03	88		0
30	USBLK04	86		0
31	USBLK01	90		0

Am 5-1-91

Am 5-1-91

QC LIMITS

%REC

BFB = Bromofluorobenzene (80-120)

Column to be used to flag recovery values.

* Values outside of contract required QC limits.

D Surrogate diluted out.

3LCA
LOW CONC. WATER VOLATILE LAB CONTROL RECOVERY

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VLCS01

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VLCS01

LCS Lot No. 1047

Lab File ID: AA22041

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

LCS Aliquot: 10 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMT REC (ng)	%REC	GC LIMITS
VINYL CHLORIDE	125	143	115	40-160
1,2-DICHLOROETHANE	125	119	95	40-160
CARBON TETRACHLORIDE	125	134	107	40-160
1,2-DICHLOROPROPANE	125	132	106	40-160
TRICHLOROETHENE	125	108	87	40-160
1,1,2-TRICHLOROETHANE	125	120	96	40-160
BENZENE	125	114	91	40-160
trans 1,3-DICHLOROPROPENE	125	141	113	40-160
BROMOFORM	125	131	104	40-160
TETRACHLOROETHENE	125	118	94	40-160
1,2-DIBROMOETHANE	125	118	94	40-160
1,4-DICHLOROBENZENE	125	105	84	40-160

Column to be used to flag LCS recovery with an asterisk
* Values outside of GC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS:

LOW CONC. WATER

4LCA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK01

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85 ✓

Lab Sample ID: VBLK01

Date Extracted: NA

Lab File ID: AA22021

Date Analyzed: 22-APR-91 ✓

Instrument ID: VG1

Time Analyzed: 1557 ✓

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED	
01	VLCS01	VLCS01	AA22041	1756	
02	EKZ79	EKZ79	AA22061	2007	T
03	EKP85	EKP85	AA22071	2106	T
04	EKP87	EKP87	AA22081	2206	T
05	EKP88	EKP88	AA22091	2305	T
06	EKP89	EKP89	AA22101	0005	At 5-2-91
07	EKP86	EKP86	AA22111	0105	
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					

COMMENTS:

4LCA
LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: -16246-

SAS-No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK02

Date Extracted: NA

Lab File ID: A0423031

Date Analyzed: 23-APR-91

Instrument ID: VG1

Time Analyzed: 1237

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EKP92	EKP92	A0423041	1337
02	EKP94	EKP94	A0423051	1436
03	EKP95	EKP95	A0423061	1536
04	EKP97	EKP97	A0423071	1636
05	EKZ76	EKZ76	A0423081	1735
06	EKZ80	EKZ80	A0423091	1835
07	VSBLK19_222	VSBLK19_2228	A0423101	1934
08	VSBLK18_222	VSBLK18_2228	A0423111	2034
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

LOW CONC. WATER

4LCA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85 -

Lab Sample ID: VBLK03

Date Extracted: NA

Lab File ID: AA24061

Date Analyzed: 24-APR-91

Instrument ID: VG1

Time Analyzed: 1900

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EKP89 .	EKP89 .	AA24071	2000
02	EKP88DL .	EKP88DL	AA24081	2059
03	EKP86DL .	EKP86DL	AA24091	2159
04	EKZ77 .	EKZ77	AA24101	2258
05	EKZ81 .	EKZ81	AA24111	2358
06	EKP96 .	EKP96	AA24121	0058
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

LOW CONC. WATER

4LCA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK04

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85 -

Lab Sample ID: VBLK04

Date Extracted: NA -

Lab File ID: AA25031

Date Analyzed: 25-APR-91 -

Instrument ID: VG1

Time Analyzed: 1551 -

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PV455	PV455	AA25041	1651
02	EKP94RE	EKP94RE	AA25041	1850
03	EKP96DL	EKP96DL	AA25071	1949
04	EKP92DL	EKP92DL	AA25081	2049
05	EKZ77DL	EKZ77DL	AA25091	2149
06	VSBLK20	VSBLK20	AA25101	2248
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

page 1 of 1

FORM IV LCV

1/87

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK01

Date Received:

Lab File ID: AA22021

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.4	J
67-64-1	ACETONE	1.9	J
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.1	J
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	0.1	J
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	0.1	J
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1	J
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	0.1	J
1330-20-7	XYLENES (total)	0.1	J
541-73-1	1,3-DICHLOROBENZENE	0.1	J
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

Note:
Chloroform
removed
by lab.
EPA 5.0

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK01

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK01

Date Received:

Lab File ID: AA22021

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 6

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLBK02

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK02

Date Received:

Lab File ID: A0423031

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK02

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK02

Date Received:

Lab File ID: A0423031

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 6

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBK03

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBK03

Date Received:

Lab File ID: AA24061

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.1	J
67-64-1	ACETONE	0.5	J
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK03

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK03

Date Received:

Lab File ID: AA24061

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK04

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK04

Date Received:

Lab File ID: AA25031

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.3	J
67-64-1	ACETONE	2.9	J
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

-- Lab Name: S-CUBED

Contract: 69_D9_0027

VBLK04

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VBLK04

Date Received:

Lab File ID: AA25031

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM I LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK18

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK18

Date Received: 18-APR-91

Lab File ID: A0423111

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.8	U
67-64-1	ACETONE	4.8	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VSBLK18

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK18

Date Received: 18-APR-91

Lab File ID: A0423111

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VSBLK19

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK19

Date Received: 19-APR-91

Lab File ID: A0423101

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.7	J
67-64-1	ACETONE	4.6	J
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VSBLK19

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK19

Date Received: 19-APR-91

Lab File ID: A0423101

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found

6

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VSBLK20

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK20

Date Received: 20-APR-91

Lab File ID: AA25101

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	1.2	JB
67-64-1	ACETONE	6.2	B
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-57-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-5	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VSBLK20

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: VSBLK20

Date Received: 20-APR-91

Lab File ID: AA25101

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found

0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CURED

Contract: 68_D9_0027

EKP85

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP85

Date Received: 25-APR-91

Lab File ID: AA22071

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	0.2	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-20-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-5	1,1,1-TRICHLOROETHANE	0.8	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.2	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP85

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP85

Date Received: 25-APR-91

Lab File ID: AA22071

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP86

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP86

Date Received: 19-APR-91

Lab File ID: AA22111

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.1 2.0	U U RWW 5-21-91
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	0.2	U
75-35-4	1,1-DICHLOROETHENE	7.4	U
75-34-3	1,1-DICHLOROETHANE	8.7	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.4 1.0	U U RWW 5-21-91
67-66-3	CHLOROFORM	0.3	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	112.5	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	15.3	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	0.2	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.2	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.2 1.0	U U RWW 5-21-91
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP86

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP86

Date Received: 19-APR-91

Lab File ID: AA22111

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP86DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP86DL

Date Received: 19-APR-91

Lab File ID: AA24091

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	5.0	U
74-83-9	BROMOMETHANE	5.0	U
75-01-4	VINYL CHLORIDE	5.0	U
75-00-3	CHLOROETHANE	5.0	U
75-09-2	METHYLENE CHLORIDE	1.2 10.	U U Rwn
67-64-1	ACETONE	6.2 25	U U 5-21-9
75-15-0	CARBON DISULFIDE	5.0	U
75-35-4	1,1-DICHLOROETHENE	3.0	JD
75-34-3	1,1-DICHLOROETHANE	3.6	JD
156-59-4	cis 1,2-DICHLOROETHENE	5.0	U
156-60-5	trans 1,2-DICHLOROETHENE	5.0	U
67-66-3	CHLOROFORM	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
78-93-3	2-BUTANONE	25.0	U
74-97-5	BROMOCHLOROMETHANE	5.0	U
71-55-6	1,1,1-TRICHLOROETHANE	38.5	D
56-23-5	CARBON TETRACHLORIDE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
78-87-5	1,2-DICHLOROPROPANE	5.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	5.0	U
79-01-6	TRICHLOROETHENE	5.7	D
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
71-43-2	BENZENE	5.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	5.0	U
75-25-2	BROMOFORM	5.0	U
108-10-1	4-METHYL-2-PENTANONE	25.0	U
591-78-6	2-HEXANONE	25.0	U
127-18-4	TETRACHLOROETHENE	0.5	JD
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U
106-93-4	1,2-DIBROMOETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYLBENZENE	5.0	U
100-42-5	STYRENE	5.0	U
1330-20-7	XYLENES (total)	5.0	U
541-73-1	1,3-DICHLOROBENZENE	5.0	U
106-46-7	1,4-DICHLOROBENZENE	5.0	U
95-50-1	1,2-DICHLOROBENZENE	5.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	5.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP86DL

Lab Code: B3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP86DL

Date Received: 19-APR-91

Lab File ID: AA24091

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP87

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP87

Date Received: 18-APR-91

Lab File ID: AA22081

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.9 5.0	JB U RWW 5-21-91
75-15-0	CARBON DISULFIDE	0.1	J
75-35-4	1,1-DICHLOROETHENE	0.6	J
75-34-3	1,1-DICHLOROETHANE	1.2	
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	0.2	JB U RWW 5-21-91
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	7.5	
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.9	
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.1	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1 1.0	JB U RWW 5-21-91
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP87

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP87

Date Received: 18-APR-91

Lab File ID: AA22081

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP88

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP88

Date Received: 18 APR-91
At 5-291

Lab File ID: AA22091

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP88DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP88DL

Date Received: 18 29-APR-91
M 6-2-91

Lab File ID: AA24081

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLORMETHANE	10.0	U
74-83-9	BROMOMETHANE	10.0	U
75-01-4	VINYL CHLORIDE	10.0	U
75-00-3	CHLOROETHANE	10.0	U
75-09-2	METHYLENE CHLORIDE	3.1 20.0	U 180 200
67-64-1	ACETONE	11.1 50.0	U 180 5-21-91
75-15-0	CARBON DISULFIDE	10.0	U
75-35-4	1,1-DICHLOROETHENE	4.1	JD
75-34-3	1,1-DICHLOROETHANE	8.0	JD
156-59-4	cis 1,2-DICHLOROETHENE	10.0	U
156-60-5	trans 1,2-DICHLOROETHENE	10.0	U
67-66-3	CHLOROFORM	0.6	JB
107-06-2	1,2-DICHLOROETHANE	10.0	U
78-93-3	2-BUTANONE	50.0	U
74-97-5	BROMOCHLOROMETHANE	10.0	U
71-55-6	1,1,1-TRICHLOROETHANE	71.3	D
56-23-5	CARBON TETRACHLORIDE	10.0	U
75-27-4	BROMODICHLOROMETHANE	10.0	U
78-87-5	1,2-DICHLOROPROPANE	10.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	10.0	U
79-01-6	TRICHLOROETHENE	22.4	D
124-48-1	DIBROMOCHLOROMETHANE	10.0	U
79-00-5	1,1,2-TRICHLOROETHANE	10.0	U
71-43-2	BENZENE	10.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	10.0	U
75-25-2	BROMOFORM	10.0	U
108-10-1	4-METHYL-2-PENTANONE	50.0	U
591-78-6	2-HEXANONE	50.0	U
127-18-4	TETRACHLOROETHENE	0.8	JD
79-34-5	1,1,2,2-TETRACHLOROETHANE	10.0	U
106-93-4	1,2-DIBROMOETHANE	10.0	U
108-88-3	TOLUENE	10.0	U
108-90-7	CHLOROBENZENE	10.0	U
100-41-4	ETHYLBENZENE	10.0	U
100-42-5	STYRENE	10.0	U
1330-20-7	XYLENES (total)	10.0	U
541-73-1	1,3-DICHLOROBENZENE	10.0	U
106-46-7	1,4-DICHLOROBENZENE	10.0	U
95-50-1	1,2-DICHLOROBENZENE	10.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP88DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP88DL

Date Received: 18 APR-91
195-2-71

Lab File ID: AA24081

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 10

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP89

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP89

Date Received: 19-APR-91

Lab File ID: AA24071

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.5 5.0	U <i>RWW</i>
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	0.4	J
75-34-3	1,1-DICHLOROETHANE	2.3	
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.1	J
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	6.3	
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.3	
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.2	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1	J
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP89

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP89

Date Received: 19-APR-91

Lab File ID: AA24071

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EKP92

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP92

Date Received: 19-APR-91

Lab File ID: A0423041

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.1	J
67-64-1	ACETONE	0.6	J
75-15-0	CARBON DISULFIDE	0.2	J
75-35-4	1,1-DICHLOROETHENE	6.8	
75-34-3	1,1-DICHLOROETHANE	8.0	
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.3	J
67-66-3	CHLOROFORM	0.3	J
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	74.5	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	14.9	
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	0.2	J
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.2	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.2	J
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP92

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP92

Date Received: 19-APR-91

Lab File ID: A0423041

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM I LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP92DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP92DL

Date Received: 19-APR-91

Lab File ID: AA25081

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	5.0	U
74-83-9	BROMOMETHANE	5.0	U
75-01-4	VINYL CHLORIDE	5.0	U
75-00-3	CHLOROETHANE	5.0	U
75-09-2	METHYLENE CHLORIDE	3.2 10.0	U U
67-64-1	ACETONE	15.1 25.0	U U
75-15-0	CARBON DISULFIDE	5.0	U
75-35-4	1,1-DICHLOROETHENE	5.0	JD
75-34-3	1,1-DICHLOROETHANE	7.0	D
156-59-4	cis 1,2-DICHLOROETHENE	5.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.3	JD
67-66-3	CHLOROFORM	0.3	JD
107-06-2	1,2-DICHLOROETHANE	5.0	U
78-93-3	2-BUTANONE	25.0	U
74-97-5	BROMOCHLOROMETHANE	5.0	U
71-55-6	1,1,1-TRICHLOROETHANE	93.5	D
56-23-5	CARBON TETRACHLORIDE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
78-87-5	1,2-DICHLOROPROPANE	5.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	5.0	U
79-01-6	TRICHLOROETHENE	11.1	D
124-46-1	DIBROMOCHLOROMETHANE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
71-43-2	BENZENE	5.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	5.0	U
75-25-2	BROMOFORM	5.0	U
108-10-1	4METHYL-2-PENTANONE	25.0	U
591-78-6	2-HEXANONE	25.0	U
127-18-4	TETRACHLOROETHENE	0.9	JD
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U
106-93-4	1,2-DIBROMOETHANE	5.0	U
108-88-3	TOLUENE	5.0	U
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYLBENZENE	5.0	U
100-42-5	STYRENE	5.0	U
1330-20-7	XYLENES (total)	5.0	U
541-73-1	1,3-DICHLOROBENZENE	5.0	U
106-46-7	1,4-DICHLOROBENZENE	5.0	U
95-50-1	1,2-DICHLOROBENZENE	5.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	5.0	U

PWW
5-21-91

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP92DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP92DL

Date Received: 19-APR-91

Lab File ID: AA25081

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

Number TICs found 1

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM I LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP94

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP94

Date Received: 19-APR-91

Lab File ID: A0423051

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.8	U
75-15-0	CARBON DISULFIDE	0.3	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	0.1	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.5	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	0.1	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 6B_D9_0027

EKP94

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP94

Date Received: 19-APR-91

Lab File ID: A0423051

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1-LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP95

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP95

Date Received: 19-APR-91

Lab File ID: A0423061

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.6	J
75-15-0	CARBON DISULFIDE	0.1	J
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-58-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.6	J
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-3	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	2.9	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-16-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP95

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP95

Date Received: 19-APR-91

Lab File ID: A0423061

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found

1

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EKP96

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP96

Date Received: 20-APR-91

Lab File ID: AA24121

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.5	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-1	1,1-DICHLOROETHENE	3.6	U
75-34-3	1,1-DICHLOROETHANE	4.8	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.3	U
67-66-3	CHLOROFORM	0.4	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	48.4	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	12.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	0.1	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.5	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.2	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

Handwritten: RW 5-21-91

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP96

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP96

Date Received: 20-APR-91

Lab File ID: AA24121

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1-LCV-TIC

4790

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP96DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP96DL

Date Received: 20-APR-91

Lab File ID: AA25071

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 4

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	4.0	U
74-83-9	BROMOMETHANE	4.0	U
75-01-4	VINYL CHLORIDE	4.0	U
75-00-3	CHLOROETHANE	4.0	U
75-09-2	METHYLENE CHLORIDE	7.9 8.0	JBD U RNL
67-64-1	ACETONE	12.2 20.0	JBD U 5-21
75-15-0	CARBON DISULFIDE	0.4	JD
75-35-4	1,1-DICHLOROETHENE	2.8	JD
75-34-3	1,1-DICHLOROETHANE	3.9	JD
156-59-4	cis 1,2-DICHLOROETHENE	4.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.3	JD
67-66-3	CHLOROFORM	0.3 4.0	JD U
107-06-2	1,2-DICHLOROETHANE	4.0	U
78-93-3	2-BUTANONE	7.5	JD
74-97-5	BROMOCHLOROMETHANE	4.0	U
71-55-6	1,1,1-TRICHLOROETHANE	54.0	D
56-23-5	CARBON TETRACHLORIDE	4.0	U
75-27-4	BROMODICHLOROMETHANE	4.0	U
78-87-5	1,2-DICHLOROPROPANE	4.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	4.0	U
79-01-6	TRICHLOROETHENE	9.0	D
124-48-1	DIBROMOCHLOROMETHANE	4.0	U
79-00-5	1,1,2-TRICHLOROETHANE	4.0	U
71-43-2	BENZENE	4.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	4.0	U
75-25-2	BROMOFORM	4.0	U
108-10-1	4-METHYL-2-PENTANONE	20.0	U
591-78-6	2-HEXANONE	20.0	U
127-18-4	TETRACHLOROETHENE	0.4	JD
79-34-5	1,1,2,2-TETRACHLOROETHANE	4.0	U
106-93-4	1,2-DIBROMOETHANE	4.0	U
108-88-3	TOLUENE	0.3	JD
108-90-7	CHLOROBENZENE	4.0	U
100-41-4	ETHYLBENZENE	4.0	U
100-42-5	STYRENE	4.0	U
1330-20-7	XYLENES (total)	4.0	U
541-73-1	1,3-DICHLOROBENZENE	4.0	U
106-46-7	1,4-DICHLOROBENZENE	4.0	U
95-50-1	1,2-DICHLOROBENZENE	4.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	4.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP96DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP96DL

Date Received: 20-APR-91

Lab File ID: AA25071

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 4

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP97

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP97

Date Received: 19-APR-91

Lab File ID: A0423071

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.1	J
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	0.3	J
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	5.3	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.2	J
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.4	J
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 6B_D9_0027

EKP97

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKP97

Date Received: 19-APR-91

Lab File ID: A0423071

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 7

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ76

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ76

Date Received: 19-APR-91

Lab File ID: A0423081

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	0.2	J
75-35-4	1,1-DICHLOROETHENE	0.1	J
75-34-3	1,1-DICHLOROETHANE	0.2	J
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	0.3	J
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	J
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	0.5	J
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1	J
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ76

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ76

Date Received: 19-APR-91

Lab File ID: A0423081

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4490

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EKZ77

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ77

Date Received: 20-APR-91

Lab File ID: AA24101

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	0.3	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	0.8	U
75-15-0	CARBON DISULFIDE	2.0	U
75-35-4	1,1-DICHLOROETHENE	1.5	U
75-34-3	1,1-DICHLOROETHANE	3.6	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.2	U
67-65-3	CHLOROFORM	0.2	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	31.6	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	11.2	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.3	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	6.7	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

JBW RWW
5-21-91

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ77

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ77

Date Received: 20-APR-91

Lab File ID: AA24101

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1-LCV-TIC.

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ77DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ77DL

Date Received: 20-APR-91

Lab File ID: AA25091

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	5.0	U
74-83-9	BROMOMETHANE	5.0	U
75-01-4	VINYL CHLORIDE	5.0	U
75-00-3	CHLOROETHANE	5.0	U
75-09-2	METHYLENE CHLORIDE	10.0	D
67-64-1	ACETONE	14.0 25.0	JP U
75-15-0	CARBON DISULFIDE	1.0	JP RWN
75-35-4	1,1-DICHLOROETHENE	1.3	JP 5-21-91
75-34-3	1,1-DICHLOROETHANE	3.0	JP
156-59-4	cis 1,2-DICHLOROETHENE	5.0	U
156-60-5	trans 1,2-DICHLOROETHENE	5.0	U
67-66-3	CHLOROFORM	5.0	U
107-06-2	1,2-DICHLOROETHANE	5.0	U
78-93-3	2-BUTANONE	25.0	U
74-97-5	BROMOCHLOROMETHANE	5.0	U
71-55-6	1,1,1-TRICHLOROETHANE	29.1	D
56-23-5	CARBON TETRACHLORIDE	5.0	U
75-27-4	BROMODICHLOROMETHANE	5.0	U
78-87-5	1,2-DICHLOROPROPANE	5.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	5.0	U
79-01-6	TRICHLOROETHENE	8.4	D
124-48-1	DIBROMOCHLOROMETHANE	5.0	U
79-00-5	1,1,2-TRICHLOROETHANE	5.0	U
71-43-2	BENZENE	5.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	5.0	U
75-25-2	BROMOFORM	5.0	U
108-10-1	4-METHYL-2-PENTANONE	25.0	U
591-78-6	2-HEXANONE	25.0	U
127-18-4	TETRACHLOROETHENE	0.3	JD
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	U
106-93-4	1,2-DIBROMOETHANE	5.0	U
108-88-3	TOLUENE	4.5	JD
108-90-7	CHLOROBENZENE	5.0	U
100-41-4	ETHYLBENZENE	5.0	U
100-42-5	STYRENE	5.0	U
1330-20-7	XYLENES (total)	5.0	U
541-73-1	1,3-DICHLOROBENZENE	5.0	U
106-46-7	1,4-DICHLOROBENZENE	5.0	U
95-50-1	1,2-DICHLOROBENZENE	5.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	5.0	U

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ77DL

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ77DL

Date Received: 20-APR-91

Lab File ID: AA25091

Date Analyzed: 25-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

Number TICs found

1

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUSED

Contract: 68_D9_0027

EKZ79

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ79

Date Received: 25-APR-91

Lab File ID: AA22061

Date Analyzed: 22-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	G
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-02-3	CHLOROETHANE	1.0	U
75-05-2	METHYLENE CHLORIDE	0.1 2.0	U
67-64-1	ACETONE	5.0	U
75-15-6	CARBON DISULFIDE	0.1	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-54-4	cis 1,2-DICHLOROETHENE	1.0	U
156-55-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-3	CHLOROFORM	5.2	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-91-3	2-BUTANONE	5.0	U
74-97-3	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.3	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.4	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-42-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

RAW
5-21-91

1LCA
 LOW CONCENTRATION WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

Lab Name: S-100ED

Contract: 68_DS_0027

EKZ79

Lab Code: SE

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ79

Date Received: 25-APR-91

Lab File ID: AA22061

Date Analyzed: 22-APR-91

Surge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ80

Lab Code: SB

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ80

Date Received: 19-APR-91

Lab File ID: A0423091

Date Analyzed: 23-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	0.1	J
67-64-1	ACETONE	0.6	J
75-15-0	CARBON DISULFIDE	0.1	J
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-3	CHLOROFORM	5.3	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-8	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.2	J
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.4	J
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-3	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EKZ80

Lab Name: S-CUBED

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ80

Date Received: 19-APR-91

Lab File ID: A0423091

Date Analyzed: 23-APR-91

Surge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 6

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBET

Contract: 68_D9_0027

EKZ81

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP85

Lab Sample ID: EKZ81

Date Received: 20-APR-91

Lab File ID: AA24111

Date Analyzed: 24-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-07-2	METHYLENE CHLORIDE	0.1 2.0	U 0 RWK
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-66-3	CHLOROFORM	5.1	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	0.3	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.4	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	0.1	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-6	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

EPA SAMPLE NO.

Contract: 68_D9_0027

: EKZ81

SDG No. : EKP85

Date Received: 20-APR-91

Date Analyzed: 24-APR-91

Dilution Factor: 1

Number Title 4-0

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. _____ (1) CERCLIS No. _____
Case No. 16246SAS6092E Site Name Location: National Presto Industries
Contractor or EPA Lab: S-CUBED Data User: Weston
No. of Samples: 15 Date Samples or Data Received: May 7, 1991

Have Chain-of-Custody records been received? YES X NO _____
Have traffic reports or packing lists been received? YES X NO _____
If no, are traffic report or packing list numbers written on the chain-of-custody record? YES _____ NO _____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES X NO _____
No. of samples claimed: 15 No. of samples received: 15
Received by: A. C. Harvey Date: 5-7-91
Received by LSSS: AMM Date: 5-7-91
Review started: 5/20 Reviewer Signature: PPW
Total time spent on review: 15 Date review completed: 5/21
Copied by: John Date: 6/12/91
Mailed to user by: A. C. Harvey Date: June 14, 1991

DATA USERS:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, SSCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____
Inorganic Data Complete [] Suitable for Intended Purpose [] ☒ if OK
Organic Data Complete [] Suitable for Intended Purpose [] list
Dioxin Data Complete [] Suitable for Intended Purpose [] prblms
SAS Data Complete [] Suitable for Intended Purpose [] below.
PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files Date: _____

~~FREE COPY~~

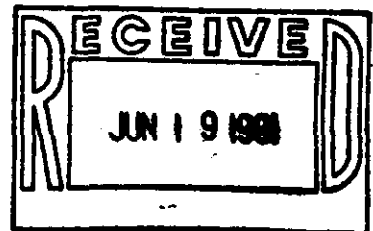
4500-28-ADTE

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 6/14/91
SUBJECT: Review of Region V CLP Data
Received for Review on June 3, 1991
FROM: Charles T. Elly, Director (5SCRL)
Central Regional Laboratory J. Thakker
TO: Data User: Weston

We have reviewed the data for the following case(s).

SITE NAME: National Presto Ind. (WI) SMO Case No. 16246
EPA Data Set No. No. of DU/Activity
(1) Samples 20 Numbers TGB, TGB102
CRL No. 912G05S01-S06, S08-S11, R17, S18-S23, D19, S43, S44
SMO Traffic No. MELW01-20
CLP Laboratory: N.F.T., Inc Hrs. for Review 14
Following are our findings: 1-ALM4-13-91



See next page MF 6-6-91

- () Data are acceptable for use.
- (X) Data are acceptable for use with qualifications.
- () Data are preliminary - pending verification by laboratory.
- () Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 16246 SDG No. MP2W01 SDG Nos. To Follow _____ SAS No. _____ Date Recvd 5/31/91

EPA Lab ID: <u>MP2W01-20</u>	ORIGINALS	YES	NO	N/A
Lab Location: <u>Colorado</u>	CUSTODY SEALS			
Region: <u>5</u> Audit No.: <u>NA</u>	1. Present on package?		☒	
Re-Submitted CSF? Yes ☐ No ☒	2. Intact upon receipt?		☒	
Box No(s): <u>NA</u>	FORM DC-2			
COMMENTS:	3. Numbering scheme accurate?	☒		
<u>1-2 Not part of duty</u>	4. Are enclosed documents listed?	☒		
<u>as this writing</u>	5. Are listed documents enclosed?		☒	
<u>S-6 DC1 not original incase</u>	FORM DC-1			
<u>one of pages missing</u>	6. Present?		☒	
<u>copy did not indicate</u>	7. Complete?	☒		
<u>where original was</u>	8. Accurate?	☒		
<u>reviewer located</u>	CHAIN-OF-CUSTODY			
<u>copy in case 16246(2)</u>	RECORD(s)			
	9. Signed?	☒		
	10. Dated?	☒		
	TRAFFIC REPORT(s)			
	PACKING LIST(s)			
	11. Signed?	☒		
	12. Dated?	☒		
	AIRBILLS/AIRBILL STICKER			
	13. Present?	☒		
	14. Signed?	☒		
	15. Dated?	☒		
	SAMPLE TAGS			
	16. Does DC-1 list tags as being included?	☒		
	17. Present?	☒		
	OTHER DOCUMENTS			
	18. Complete?	☒		
	19. Legible?	☒		
	20. Original?	☒		
	20a. If "NO," does the copy indicate where original documents are located?			
Over for additional comments.				

Audited by: Myra Fletcher Date 6/13/91
 Audited by: _____ Date 6/13/91
 Audited by: Myra Fletcher Signature Myra Fletcher/Associate Project Scientist Date 6/13/91

TO BE COMPLETED BY CEAT		
Date Recvd by CEAT: <u> </u> / <u> </u> / <u> </u>	Date Entered: <u> </u> / <u> </u> / <u> </u>	Date Reviewed: <u> </u> / <u> </u> / <u> </u>
Entered by: _____		
Reviewed by: _____		
Signature	Printed Name/Title	

CASE: 16246

LAB: NFT. Inc.

Below are the out of control audits for case 16246(1) which contained 20 low level water samples analyzed for total metals.

EVIDENTIAL AUDIT: The DC1 pg. 302 was not the original. (see phone logs) The rest of the forms and data were original. The DC2 form is present and complete. All sample tags were included in the case. The reviewer located the missing original data in 16246(2).

ICP ANALYSES: See qualified data below.

GFAA ANALYSES: The lab flagged(W) on the following Tl data indicating interference and all data are estimated(UJ): MELW01-08, 10, 12-20.

The lab flagged(W) on Se(MELW07-09) indicating interference and the data are estimated(UJ).

The prep blank of As(1.2 ug/l) and the CCB(2.1 ug/l) indicated contamination. The lab did not flag the duplicate audit of As(42.4%) since the duplicate difference($\pm 2 \times \text{CRDL}$) was not exceeded therefore As data are not qualified on this basis. The lab flagged(W) on the following As data indicating interference: MELW01, 03, 04, 06-13, 15, 16. For As: MELW03, 04, 07, 09, 10, 13, 15, 16 are estimated(J) due to contamination and interference, MELW02 is estimated(J) due to interference, MELW06, 08, 11, 12 are estimated(UJ) due to interference, and MELW02, 17 are estimated(J) due to contamination.

OTHER QUALIFIERS: The lab did not flag the duplicate audit of Hg(31.6%) since the duplicate difference($\pm 2 \times \text{CRDL}$) was not exceeded therefore Hg data are not qualified on this basis. Hg data are qualified below.

MELW03/05 and MELW04/06 are field duplicates and showed good correlation.

MELW11,12 are a field blanks and contained Ba(3.9 ug/l), Zn(2.4 ug/l), and Hg(.13 ug/l). MELW02,04,06,10,12,18 for Ba, MELW09,10, 12,13 for Hg, and MELW02,08,10,16 for Zn are estimated(J) due to contamination.

M. Fletcher

Date: 6/11/91

revised 6/14/91

QC EXCEPTION SUMMARY REPORT

CASE # 1162416
DATA SET
LAB Q.C.#
DATE: 6/16/91

SITE National Photo Ind.
LAB APC Inc
REVIEWED BY M. E. Githen

MATRIX: Water WATER SAMPLE SPK. _____
 CONC. : Low WATER SAMPLE DUP. _____
 MATRIX: _____ SOIL SAMPLE SPK. _____
 CONC. : _____ SOIL SAMPLE DUP. _____

[illegible]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. _____ (1) CERCLIS No. _____
Case No. 16246 Site Name Location: National Presto Ind. (w1)
Contractor or EPA Lab: N.F.T., Inc. Data User: Weston
No. of Samples: 20 Date Samples or Data Received: May 31, 1991
Have Chain-of-Custody records been received? YES X NO _____
Have traffic reports or packing lists been received? YES X NO _____
If no, are traffic report or packing list numbers written on the
chain-of-custody record? YES _____ NO _____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES X NO _____
No. of samples claimed: 20 No. of samples received: 20
Received by: A. C. Harvey Date: June 3, 1991
Received by LSSS: DM Date: 6-3-91
Review started: 6-4-91 Reviewer Signature: M. Fletcher
Total time spent on review: 13 DEC 1 hr Date review completed: 6-6-91 6/13/91
Copied by: J. Kim THU JUN 13 1991 Date: 6/17/91
Mailed to user by: _____ Date: _____

DATA USERS:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____
Inorganic Data Complete [] Suitable for Intended Purpose [] ☒ if OK
Organic Data Complete [] Suitable for Intended Purpose [] list
Dioxin Data Complete [] Suitable for Intended Purpose [] prblms
SAS Data Complete [] Suitable for Intended Purpose [] below.
PROBLEMS: Please indicate reasons why data are not suitable for
your uses.

Received by Data Mgmt. Coordinator for Files Date: _____

U. S. EPA - CLP
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

001

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

SOW No.: 3/90

EPA Sample No.	Lab Sample ID
MELW01	1D19-1
MELW02	1D19-2
MELW03	1D19-3
MELW04	1D19-4
MELW05	1D19-5
MELW06	1D19-6
MELW07	1D19-7
MELW08	1D19-8
MELW09	1D19-9
MELW10	1D19-10
MELW10D	1D19-10D
MELW10S	1D19-10S
MELW11	1D19-11
MELW12	1D19-12
MELW13	1D19-13
MELW14	1D19-14
MELW15	1D19-15
MELW16	1D19-16
MELW17	1D19-17
MELW18	1D19-18

RECEIVED

MAY 21 1991

US EPA CENTRAL RECORDS LAB.
535 S. CLARK ST.
CHICAGO, ILL. 60605

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES

If yes, were raw data generated before
application of background corrections?

Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee as verified by the following signatures.

Signature: Ronald L. Keil

Name: Ronald L. Keil

Date: 05/30/91

Title: Lab Director

U. S. EPA - CLP
COVER PAGE - INORGANIC ANALYSIS DATA PACKAGE

002

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

SOW No.: 3/90

EPA Sample No.
MELW19
MELW20

Lab Sample ID
1D19-19
1D19-20

Were ICP interelement corrections applied?	Yes/No	YES
Were ICP background corrections applied?	Yes/No	YES
If yes, were raw data generated before application of background corrections?	Yes/No	NO
Comments:		

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: 

Name: Ronald L. Keil

Date: 05/30/91

Title: Lab Director

1
INORGANIC ANALYSIS DATA SHEET

MELW01

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-1

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3820.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	7.10	B W		F
7440-39-3	Barium	37.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	12300.00			P
7440-47-3	Chromium	7.10	B		P
7440-48-4	Cobalt	3.00	B		P
7440-50-8	Copper	13.00	B		P
7439-89-6	Iron	4270.00			P
7439-92-1	Lead	1.10	B		F
7439-95-4	Magnesium	5460.00			P
7439-96-5	Manganese	128.00			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1470.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	5550.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	4.90	B		P
7440-66-6	Zinc	16.30	B		P
	Cyanide				NR

Color Before: TAN

Clarity Before: TURBID

Texture:

Color After: TAN

Clarity After: TURBID

Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MELW02

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-2

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	2.00	B		F
7440-39-3	Barium	8.30	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	11100.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	3980.00	B		P
7439-96-5	Manganese	1.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	994.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	5180.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	5.20	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW03

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-3

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	603.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	2.20	B	W	F
7440-39-3	Barium	22.40	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	14600.00			P
7440-47-3	Chromium	4.10	B		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	4.80	B		P
7439-89-6	Iron	557.00			P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	5790.00			P
7439-96-5	Manganese	55.20			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.30	B		P
7440-09-7	Potassium	1420.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	25200.00			P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	36.10			P
	Cyanide				NR

Color Before: ORANGE

Clarity Before: TURBID

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW04

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-4

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.30	B W		F
7440-39-3	Barium	16.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.50	B		P
7440-70-2	Calcium	14400.00			P
7440-47-3	Chromium	4.30	B		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	5620.00			P
7439-96-5	Manganese	23.50			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1230.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	24800.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	29.60			P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MELW05

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-5

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	652.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U		F
7440-39-3	Barium	22.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	14600.00			P
7440-47-3	Chromium	7.40	B		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	4.60	B		P
7439-89-6	Iron	603.00			P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	5740.00			P
7439-96-5	Manganese	57.50			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	9.00	B		P
7440-09-7	Potassium	1420.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	23400.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	31.70			P
	Cyanide				NR

Color Before: ORANGE

Clarity Before: TURBID

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW06

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-6

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U	W	F
7440-39-3	Barium	15.80	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	14500.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	5570.00			P
7439-96-5	Manganese	24.20			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1250.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	24400.00			P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	29.10			P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1
INORGANIC ANALYSIS DATA SHEET

MELW07

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-7

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4610.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	2.30	B W		F
7440-39-3	Barium	72.40	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	32200.00			P
7440-47-3	Chromium	11.10			P
7440-48-4	Cobalt	11.80	B		P
7440-50-8	Copper	26.30			P
7439-89-6	Iron	6860.00			P
7439-92-1	Lead	2.70	B		F
7439-95-4	Magnesium	15500.00			P
7439-96-5	Manganese	875.00			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	19.10	B		P
7440-09-7	Potassium	1730.00	B		P
7782-49-2	Selenium	2.00	U W		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	9230.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	9.10	B		P
7440-66-6	Zinc	20.60			P
	Cyanide				NR

Color Before: BROWN

Clarity Before: TURBID

Texture:

Color After: BROWN

Clarity After: TURBID

Artifacts:

Comments:

1
INORGANIC ANALYSIS DATA SHEET

MELW08

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-8

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U W		F
7440-39-3	Barium	24.10	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	30500.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	13600.00			P
7439-96-5	Manganese	1.00	U		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1300.00	B		P
7782-49-2	Selenium	2.00	U W		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	9360.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	11.80	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1
INORGANIC ANALYSIS DATA SHEET

MELW09

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-9

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	38900.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	5.50	B	W	F
7440-39-3	Barium	406.00			P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	23100.00			P
7440-47-3	Chromium	62.40			P
7440-48-4	Cobalt	50.00	B		P
7440-50-8	Copper	224.00			P
7439-89-6	Iron	39400.00			P
7439-92-1	Lead	20.00			F
7439-95-4	Magnesium	17500.00			P
7439-96-5	Manganese	5470.00			P
7439-97-6	Mercury	.13	B		CV
7440-02-0	Nickel	145.00			P
7440-09-7	Potassium	5060.00			P
7782-49-2	Selenium	2.00	U	W	F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	25700.00			P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	63.30			P
7440-66-6	Zinc	109.00			P
	Cyanide				NR

Color Before: BROWN

Clarity Before: OPAQUE

Texture:

Color After: ORANGE

Clarity After: TURBID

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW10

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-10

Level (low/med): LOW

Date Received: 4/18/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	2.00	B W		F
7440-39-3	Barium	17.80	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	16100.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	6690.00			P
7439-96-5	Manganese	1.00	U		P
7439-97-6	Mercury	.18	B		CV
7440-02-0	Nickel	9.00	B		P
7440-09-7	Potassium	1460.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	25800.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	8.70	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

EPA SAMPLE NO.

1
INORGANIC ANALYSIS DATA SHEET

MELW11

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-11

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U	W	F
7440-39-3	Barium	3.90	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	29.00	U		P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	19.00	U		P
7439-96-5	Manganese	1.00	U		P
7439-97-6	Mercury	.13	B		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	303.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	233.00	U		P
7440-28-0	Thallium	2.00	U		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	2.00	U		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1
INORGANIC ANALYSIS DATA SHEET

MELW12

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-12

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U W		F
7440-39-3	Barium	2.00	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	29.00	U		P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	19.00	U		P
7439-96-5	Manganese	1.00	U		P
7439-97-6	Mercury	.13	B		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	303.00	U		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	233.00	U		P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	2.40	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

MELW13

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-13

Level (low/med): LOW

Date Received: 4/19/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1500.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	3.20	B	W	F
7440-39-3	Barium	52.00	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	19300.00			P
7440-47-3	Chromium	6.40	B		P
7440-48-4	Cobalt	8.90	B		P
7440-50-8	Copper	21.60	B		P
7439-89-6	Iron	2590.00			P
7439-92-1	Lead	2.10	B		F
7439-95-4	Magnesium	8820.00			P
7439-96-5	Manganese	684.00			P
7439-97-6	Mercury	.18	B		CV
7440-02-0	Nickel	27.70	B		P
7440-09-7	Potassium	1830.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	40600.00			P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	4.90	B		P
7440-66-6	Zinc	28.40			P
	Cyanide				NR

Color Before: TAN

Clarity Before: TURBID

Texture:

Color After: TAN

Clarity After: TURBID

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW14

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-14

Level (low/med): LOW

Date Received: 4/19/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U		F
7440-39-3	Barium	25.60	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	18800.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	8230.00			P
7439-96-5	Manganese	6.20	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	13.10	B		P
7440-09-7	Potassium	1360.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	38900.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	16.70	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

1

INORGANIC ANALYSIS DATA SHEET

MELW15

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-15

Level (low/med): LOW

Date Received: 4/19/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	1630.00			P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.20	B	W	F
7440-39-3	Barium	59.50	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	29500.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	5.20	B		P
7440-50-8	Copper	11.80	B		P
7439-89-6	Iron	2100.00			P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	11500.00			P
7439-96-5	Manganese	325.00			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	8.60	B		P
7440-09-7	Potassium	1450.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	25700.00			P
7440-28-0	Thallium	2.00	U	W	F
7440-62-2	Vanadium	4.40	B		P
7440-66-6	Zinc	17.80	B		P
	Cyanide				NR

Color Before: TAN

Clarity Before: TURBID

Texture:

Color After: TAN

Clarity After: TURBID

Artifacts:

Comments:

1
INORGANIC ANALYSIS DATA SHEET

MELW16

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-16

Level (low/med): LOW

Date Received: 4/19/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.50	B W		F
7440-39-3	Barium	38.00	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	27800.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	11100.00			P
7439-96-5	Manganese	8.50	B		P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1350.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	27500.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	10.50	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

019
EPA SAMPLE NO.

U.S. EPA - CLP

EPA SAMPLE NO. 020

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INORGANIC ANALYSIS DATA SHEET

MELW18

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-18

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	B		F
7440-39-3	Barium	18.40	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	13300.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	43.80	B		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	3920.00	B		P
7439-96-5	Manganese	67.70			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1420.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	40400.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	15.70	B		P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

3
BLANKS

Lab name: N.F.T. INC.

Contract: 68-D0-0145

Lab code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum	-47.2	B	-38.6	B	-37.7	B	-44.2	B	-29.300	B	P
Antimony	18.0	U	18.0	U	18.0	U	18.0	U	18.000	U	P
Arsenic	2.3	B	1.4	B	2.1	B	1.0	U	1.200	B	F
Barium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Calcium	-73.9	B	-94.2	B	-119.6	B	-139.8	B	-114.500	B	P
Chromium	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Iron	-26.2	B	-24.1	B	-26.3	B	-26.8	B	-25.700	B	P
Lead	1.0	U	1.0	U	1.0	U	-1.0	B	1.000	U	F
Magnesium	-60.8	B	-50.0	B	-57.3	B	-58.2	B	-42.200	B	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	.1	U	.1	U	.1	U	.1	U	.100	U	CV
Nickel	7.0	U	7.0	U	7.0	U	7.0	U	7.000	U	P
Potassium	303.0	U	303.0	U	303.0	U	303.0	U	303.000	U	P
Selenium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Silver	-3.5	B	3.0	U	3.0	U	-3.6	B	3.000	U	P
Sodium	233.0	U	233.0	U	233.0	U	233.0	U	233.000	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	F
Vanadium	3.0	U	3.0	U	3.0	U	-3.1	B	3.000	U	P
Zinc	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Cyanide											NR

1
INORGANIC ANALYSIS DATA SHEET

MELW20

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (soil/water): WATER

Lab Sample ID: 1D19-20

Level (low/med): LOW

Date Received: 4/22/91

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	13.00	U		P
7440-36-0	Antimony	18.00	U		P
7440-38-2	Arsenic	1.00	U		F
7440-39-3	Barium	26.20	B		P
7440-41-7	Beryllium	1.00	U		P
7440-43-9	Cadmium	3.00	U		P
7440-70-2	Calcium	16500.00			P
7440-47-3	Chromium	4.00	U		P
7440-48-4	Cobalt	3.00	U		P
7440-50-8	Copper	2.00	U		P
7439-89-6	Iron	6.00	U		P
7439-92-1	Lead	1.00	U		F
7439-95-4	Magnesium	6650.00			P
7439-96-5	Manganese	17.40			P
7439-97-6	Mercury	.10	U		CV
7440-02-0	Nickel	7.00	U		P
7440-09-7	Potassium	1110.00	B		P
7782-49-2	Selenium	2.00	U		F
7440-22-4	Silver	3.00	U		P
7440-23-5	Sodium	10900.00			P
7440-28-0	Thallium	2.00	U W		F
7440-62-2	Vanadium	3.00	U		P
7440-66-6	Zinc	27.70			P
	Cyanide				NR

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

U.S. EPA - CLP

3
BLANKS

Lab name: N.F.T. INC.

Contract: 68-D0-0145

Lab code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum	-		-52.4	B	-51.3	B					P
Antimony			18.0	U	18.0	U					P
Arsenic			1.0	U	1.0	U	1.0	U			F
Barium			1.0	U	1.0	U					P
Beryllium			1.0	U	1.0	U					P
Cadmium			3.0	U	3.0	U					P
Calcium			-96.7	B	-83.5	B					P
Chromium			4.0	U	4.0	U					P
Cobalt			3.0	U	3.0	U					P
Copper			2.0	U	2.0	U					P
Iron			-27.4	B	-23.1	B					P
Lead			1.0	U	1.0	U					F
Magnesium			-57.1	B	-48.0	B					P
Manganese			1.0	U	1.0	U					P
Mercury											NR
Nickel			7.0	U	7.0	U					P
Potassium			303.0	U	303.0	U					P
Selenium			2.0	U							F
Silver			3.0	U	-4.4	B					P
Sodium			233.0	U	233.0	U					P
Thallium			2.0	U	2.0	U	2.0	U			F
Vanadium			3.0	U	3.0	U					P
Zinc			2.0	U	2.0	U					P
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab name: N.F.T. INC.

Contract: 68-D0-0145

Lab code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum											NR
Antimony											NR
Arsenic			1.0	U							F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	2.0	U	-2.0	B	2.0	U	2.0	U			F
Silver											NR
Sodium											NR
Thallium			2.0	U	2.0	U					F
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

3
BLANKS

Lab name: N.F.T. INC.

Contract: 68-D0-0145

Lab code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum	-										NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead											NR
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium	2.0	U	2.0	U	-2.3	B	2.0	U			F
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

5A
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MELW10S

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix: WATER

Level (low/med): LOW

% Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2066.8400	13.0000 U	2000.00	103.3		P
Antimony	75-125	478.4000	18.0000 U	500.00	95.7		P
Arsenic	75-125	48.1000	2.0000 B	40.00	115.2		F
Barium	75-125	2036.4700	17.8400 B	2000.00	100.9		P
Beryllium	75-125	52.4900	1.0000 U	50.00	105.0		P
Cadmium	75-125	46.0800	3.0000 U	50.00	92.2		P
Calcium							NR
Chromium	75-125	197.8700	4.0000 U	200.00	98.9		P
Cobalt	75-125	497.8300	3.0000 U	500.00	99.6		P
Copper	75-125	255.5600	2.0000 U	250.00	102.2		P
Iron	75-125	992.3200	6.0000 U	1000.00	99.2		P
Lead	75-125	19.4000	1.0000 U	20.00	97.0		F
Magnesium							NR
Manganese	75-125	498.4900	1.0000 U	500.00	99.7		P
Mercury	75-125	.9660	.1760 B	1.00	79.0		CV
Nickel	75-125	505.3400	8.9800 B	500.00	99.3		P
Potassium							NR
Selenium	75-125	10.4000	2.0000 U	10.00	104.0		F
Silver	75-125	41.4700	3.0000 U	50.00	82.9		P
Sodium							NR
Thallium	75-125	42.2000	2.0000 U	50.00	84.4		F
Vanadium	75-125	486.7800	3.0000 U	500.00	97.4		P
Zinc	75-125	497.9000	8.6800 B	500.00	97.8		P
Cyanide							NR

Comments:

U.S. EPA - CLP

EPA SAMPLE NO.

6

DUPLICATES

MELW10D

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

Matrix (water/soil): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	%RPD	Q	M
Aluminum		13.0000 U	13.0000 U			P
Antimony		18.0000 U	18.0000 U			P
Arsenic		2.0000 B	1.3000 B	42.4		F
Barium		17.8400 B	17.7500 B	.5		P
Beryllium		1.0000 U	1.0000 U			P
Cadmium		3.0000 U	3.0000 U			P
Calcium	5000.0	16062.8500	16051.8800	.1		P
Chromium		4.0000 U	4.0000 U			P
Cobalt		3.0000 U	3.0000 U			P
Copper		2.0000 U	2.0000 U			P
Iron		6.0000 U	6.0000 U			P
Lead		1.0000 U	1.0000 U			F
Magnesium	5000.0	6687.5500	6664.9000	.3		P
Manganese		1.0000 U	1.0000 U			P
Mercury		.1760 B	.1280 B	31.6		CV
Nickel		8.9800 B	8.7100 B	3.1		P
Potassium		1464.5000 B	1459.3200 B	.4		P
Selenium		2.0000 U	2.0000 U			F
Silver		3.0000 U	3.0000 U			P
Sodium	5000.0	25804.0700	24931.6500	3.4		P
Thallium		2.0000 U	2.0000 U			F
Vanadium		3.0000 U	3.0000 U			P
Zinc		8.6800 B	9.8800 B	12.9		P
Cyanide						NR

FORM VI - IN

3/90

U.S. EPA - CLP

10

042

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

ICP ID Number: TJA ICAP-61

Date: 5/15/91

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	13.0	P
Antimony	206.84		60	18.0	P
Arsenic			10		NR
Barium	493.41		200	1.0	P
Beryllium	313.04		5	1.0	P
Cadmium	228.80		5	3.0	P
Calcium	317.93		5000	29.0	P
Chromium	267.72		10	4.0	P
Cobalt	228.80		50	3.0	P
Copper	324.75		25	2.0	P
Iron	259.94		100	6.0	P
Lead			3		NR
Magnesium	279.08		5000	19.0	P
Manganese	257.61		15	1.0	P
Mercury			0.2		NR
Nickel	231.60		40	7.0	P
Potassium	766.49		5000	303.0	P
Selenium			5		NR
Silver	328.07		10	3.0	P
Sodium	589.00		5000	233.0	P
Thallium			10		NR
Vanadium	292.40		50	3.0	P
Zinc	213.86		20	2.0	P

Comments:

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

ICP ID Number:

Date: 5/07/91

Flame AA ID Number:

Furnace AA ID Number: PE Z5100

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	193.70	BZ	200	1.0	NR
Antimony			60		NR
Arsenic			10		F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron	283.80	BZ	100	1.0	NR
Lead			3		F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		F
Silver			10		NR
Sodium	196.00	BZ	5000	2.0	NR
Thallium			10		F
Vanadium			50		NR
Zinc			20		NR

Comments:

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: N.F.T. INC.

Contract: 68-D0-0145

Lab Code: NFT

Case No.: 16246

SAS No.:

SDG No.: MELW01

ICP ID Number:

Date: 4/20/91

Flame AA ID Number: FISHER HG-3

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	253.70		200	.1	NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

~~FILE COPY~~

4500-28-ADGX

MAY 1 1991

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/24/91

SUBJECT: Review of Region V CLP Data
Received for Review on May 7, 1991

FROM: Charles T. Elly, Director (5SCRL) Patrick J. Churchill for
Central Regional Laboratory

TO: Data User: Weston

We have reviewed the data for the following case(s).

SITE NAME: National Presto Industries (LWI) SMO Case No. 16246SAS6092E

EPA Data Set No. (2) No. of DU/Activity
Samples 10 Numbers TGB, TGB102

CRL No. 912G05R27, S24, S31, S32, R34, S35, S38, S37, S40, D40

SMO Traffic No. EKP98, 99 EK278, 83-87 EKP91, 93

CLP Laboratory: 3-CUBED + (PX 436) am Hrs. for Review 14.0 42 = 1 1/2
W. L. Wilson

Following are our findings:

MS

PLEASE NOTE NARRATIVE NOTES

- () Data are acceptable for use.
- (X) Data are acceptable for use with qualifications.
- () Data are preliminary - pending verification by laboratory.
- () Data are unacceptable.

cc: Elenor McLean, Sample Mgmt. Office
Edward Kantor, EMSL-Las Vegas

WESTON..

DATA QUALIFIERS

PAGE OF

CONTRACTOR:

CASE

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

The laboratory received ten (10) water sample on the 23,24 th. of April 1991 in good condition for VOA only.

Water samples EKZ84,85 are a trip blanks in SDG#EKP98.

Water sample EKZ78 is a field blank.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: L. Finkelberg

Phone: 353-2893

Date: 22 May 1991

Hrs. Required

for Review: 14.0

CONTRACTOR: S-cubed

CASE 16246/6092E

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

1. HOLDING TIMES:

Water was sampled on 22,23th. of April 1991. The laboratory received ten (10) water samples on 23, 24 th. of April 1991 in good condition for low level VOA only.

Volatile analysis of water samples were completed within the seven (7) days holding time criteria.

2. GC/MS TUNING AND GC PERFORMANCE:

GC/MS tuning complied with the mass list and ion abundance criteria for BFB .

3. CALIBRATION:

Initial and continuing calibration of VOA were evaluated for the target compound list(TCL) and outliers were recorded on the outlier forms included as part of this narrative.

4. METHOD BLANK:

VBLK01 , VBLK02, VBLK03 are low level volatile organic water method blanks. VBLK01, VBLK02 and VBLK03 are contained methylene chloride and acetone. The presence of methylene chloride and acetone (common lab.contaminant) in associated samples were flagged as non-detected "U", when sample result was <10x the blank result. Blank Summary (Form IV VOA) lists the associated samples.

5. SURROGATE RECOVERY:

All VOA surrogate recovery met QC criteria (including Performance evaluation sample PX436).

6. LAB CONTROL SAMPLE AND PERFORMANCE EVALUATION SAMPLES.

Sample VLCS01 was used in SDG# EKP98 as the low concentration water VOA lab control sample . Recovery of all 12 compounds in the VLCS01 met QC criteria (60-140%).

Reviewed by: L. Finzelberg

Phone: 3532893

Date: 22MAY1991

CONTRACTOR: S-CUBED

CASE 16246/6092E

6. LAB CONTROL SAMPLE AND PERFORMANCE EVALUATION SAMPLES.

Sample PX436 in SDG# EKP98 is external Performance Evaluation sample for Volatile fraction. Sample contained chloroethane (3.1ppb), 2-butanone(2.8ppb), 1,1,1-trichloroethane(3.9ppb), bromodichloromethane(7.3ppb), trichloroethene(0.4ppb), 2-hexanone(3.7ppb), tetrachloroethene(0.1ppb), 1,1,2,2-tetrachloroethane(14.7ppb), 1,2-dibromoethane(9.9ppb), ethybenzene(9.6ppb), styrene(14.2ppb), xylenes(1.4ppb) and one TIC.

7. FIELD BLANK AND FIELD DUPLICATE:

Water samples EK84 and EK285 are trip blanks; EKZ78 is a field blank. EKZ84 contained carbon disulfide(0.3ppb), chloroform(4.4ppb), bromodichloromethane(0.4ppb). EKZ85 contained carbon disulfide(0.2ppb), chloroform(4.3ppb), bromodichloromethane(0.3ppb), trichloroethene(0.2ppb). EKZ78 contained carbon disulfide(0.3ppb), chloroform(5.2ppb), bromodichloromethane(0.4ppb), toluene(0.1ppb).

8. INTERNAL STANDARDS:

All VOA internal standard areas and RTs met QC criteria.

9. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS:

All VOA target compound quantitative results were properly reported.

The CRQLs were adjusted to reflect all sample dilutions.

10. COMPOUND IDENTIFICATION.

Target compounds and TICs were identified by "best fit" library search method.

11. SYSTEM PERFORMANCE.

GC/MS baseline indicated acceptance performance.

12. OVERALL CASE ASSESSMENT.

This reviewer found no additional case problems to be noted.

Reviewed by: L. Finkelberg
Date: 353-2893 22 MAY 1991
Phone: 353-2893

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS
(page 1)

CASE/SAS# 16246

CONTRACTOR S-Cubed

INSTRUMENT# VGI	DATE/TIME	INIT CAL			CONT CAL			CONT CAL			CONT CAL			CONT CAL		
		MIN	4	4.91	4.26	91	13.21	4.29	91	13.21	4.30	91	10.23	4.30	91	10.23
		RRF	RF	% D	RF	% D	RF	% D	RF	% D	RF	% D	RF	RF	% D	% D
Bromomethane		0.1														
Vinyl Chloride		0.1														
1,1-Dichloroethane		0.2														
1,1-Dichloroethene		0.1														
Chloroform		0.2														
1,2-Dichloroethane		0.1														
1,2-Dibromoethane		0.1														
1,1,1-Trichloroethane		0.1														
Carbon Tetrachloride		0.1														
Bromochloromethane		0.1	09	15.93	09	9.9	R	09	5.50	R	09	12.1	R			
Bromodichloromethane		0.2														
trans-1,3-Dichloropropene		0.1														
Trichloroethene		0.3														
Dibromochloromethane		0.1														
Benzene		0.5														
cis-1,3-Dichloropropene		0.2														
Bromoform		0.1														
Tetrachloroethene		0.2														
1,1,2,2-Tetrachloroethane		0.5														
Toluene		0.4														
Chlorobenzene		0.5														
Ethylbenzene		0.1														
Styrene		0.3														
Xylenes (total)		0.3														
1,1,2-Trichloroethane		0.1														
1,2-Dichlorobenzene		0.4														
1,3-Dichlorobenzene		0.6														
1,4-Dichlorobenzene		0.5														
1,4-Bromofluorobenzene		0.2														
AFFECTED SAMPLES:																

Receiver's
Initials/Date: L. Finkelberg 5.22.91

* These flags should be applied to the analytes on the sample data sheets.

CALIBRATION OUTLIERS
VOLATILE HSL COMPOUNDS
(Page 2)

PAGE 5 OF 5

CASE/SAS # 16246

CONTRACTOR S-Cubed

INSTRUMENT #	INITIAL	CONT CAL	CONT CAL	CONT CAL	CONT CAL
<u>16246</u>	<u>4.4.91</u>	<u>4.26.91 13.27</u>	<u>4.29.91 13.21</u>	<u>4.30.91 10.23</u>	

The following compounds must only meet the min. RRF of 0.01.

	RF	%D	RF	%D	RF	%D	RF	%D	RF	%D
Acetone	.028	53.2	.028	32.0	.028	57.0	.028	53.6		
2-Butanone	.04	27.1	.04	41	.04	44	.04	55.8		
Carbon disulfide	.278	8.32	.278	32.7	.278		.278	34.4		
Chloroethane										
Chloromethane										
1,2-Dibromo-3-chloropropane										
cis-1,2-Dichloroethene										
trans-1,2-Dichloroethene										
1,2-Dichloropropane										
2-Hexanone	.091	9.77	.091	49.0	.091	55				
Methylene chloride	.38	45.3	.38	32.4	.38					
4-Methyl-2-pentanone	.116	59	.116	59	.116	61.2				

SEE PAGE 1 FOR AFFECTED SAMPLES

* These flags should be applied to the analytes on the sample data sheets.

Reviewer's Initials/Date: L. FINKELBERG 5-22-91



DATA REPORTING QUALIFIERS - PAGE 1

For reporting results to EPA, the following result qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE - If the result is a value greater than or equal to the Contract Required Quantitation Limit (CRQL), report the value.

U - Indicates compound was analyzed for but not detected. The sample Quantitation Limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to:

$$\frac{(330 \text{ U}) \times df}{D} \quad \text{where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

$$\text{At 24\% moisture, } D = \frac{100 - 24}{100} = 0.76$$

$$\frac{(330 \text{ U}) \times 10}{.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 ml, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values will apply to all samples, regardless of cleanup. However if a sample extract cannot be concentrated to the protocol-specified volume, this fact must be accounted for in reporting the sample quantitation limit.

- J** - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/l, but a concentration of 3 ug/l is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag. The J flag is also applied to pesticide/Aroclor results where the pesticide/Aroclor is confirmed to be present but the concentration is less than the CRQL.
- N** - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.



DATA REPORTING QUALIFIERS - PAGE 2

- P** - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".
- C** - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined flag, discussed below.
- B** - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.
- E** - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to pesticides/PCBs analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.
- D** - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.
- A** - This flag indicates that a TIC is a suspected aldol-condensation product.
- X** - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample. The laboratory-defined flags are limited to the letters "X", "Y", and "Z".

THIS FORM IS TO BE USED FOR SAMPLES SENT TO CONTRACT ONLY

4-17-91 thru

DATE SHIPPED 4-23-91

PAGE 2 OF 3

WATER ON LIQUIDS

SEDIMENTS OF SOILS

CRL LOG NUMBER	ORGANIC TRAFFIC REPORT NUMBER SAS Pack#	INORGANIC TRAFFIC REPORT NUMBER
11ZG05D19	EKP 92	
S21		
S22	EKZ 77	
S23		
S24	EKP 96	
S25		
TRIP BLANK R26	EKZ 81	
FIELD BLANK R27	EKZ 78	
S28		
S29	EKP 98	
S30		
S31	EKZ 84	
S32	EKP 99	
S33		
TRIP BLANK R34	EKZ 85	
S35	EKZ 86	
S36		
S37	EKZ 87	
S38	EKZ 83	

A. D. Kronn



United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report (For CLP Use Only)

Case Number

SAS No. (if applicable)

16746

1. Location (Enter in Column A)

2. Region Number

Sampling Co.

4. Date Shipped

Carrier

5. Date Received

Received by

Sampler (Name)

Airbill Number

Laboratory Contract Number

Unit Price

3. Ship To:

Triple volume required for matrix spike/duplicate aqueous sample.

6. Transfer to

Date Received

3378 CADILLAC MOUNTAIN
SAN DIEGO, CA 92121-0115

Ship medium and high concentration samples in paint cans.

Received by

Contract Number

Price

See reverse for additional instructions.

CLP Sample Number (From Labels)	(A) Sample Description (From box 1)	(B) Concentration L=low M=med H=high	(C) RAS Analysis				(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases (Check below)		
			VOA	BNA	Pest/PCB	ARO/TOX						Solid	Water-MIS Liq.	Non Water-MIS Liq.
EKP 78	782	L	X				FIELD BLANK	Flu2-G	4/22 1155		OK			
EKP 98			X					GW13-G1	4/22 1210					
EKP 84			X				TRIP BLANK	TBG4-G1	4/22 1240					
EKP 99			X					GW14-G1	4/22 1255					
CASE INCOMPLETE														

Organic Traffic Report

(For CLP Use Only)

Case Number

SAS No. (if applicable)

16741

1. *Chlorophyll a* (Chl *a*)

1. Sample Description (Enter in Column A)	2. Region Number	3. Sampling Co.	4. Date Shipped	Carrier	5. Date Received	Received by
1. Surface Water	7	WESON	4/23/04	FEDEX	4-24-04	6M-2000
2. Ground Water	Sampler (Name)		Airbill Number		Laboratory Contract Number	Unit Price
3. Leachate	SALIN MATE		94345401		67092207	
4. Rinseate	3. Ship To:		Triple volume required for matrix spike/duplicate aqueous sample.		6-Transfer to	Date Received
5. Soil/Sediment	SALIN MATE		Ship medium and high concentration samples in paint cans.		Received by	
6. Oil (SAS)	SALIN MATE		See reverse for additional instructions.		Contract Number	Price
7. Waste (SAS)	SALIN MATE					
8. Other (SAS) (Specify)	SALIN MATE					
IF VOA SAMPLE PRESERVED INDICATE IN COLUMN C WITH Y OR N.						

CLP Sample Number <i>(From labels)</i>	(A) Sample Description <i>(From box 1)</i>	(B) Concentration L=low M=med H=high	(C) RAS Analysis				(D) Special Handling	(E) Station Location	(F) Date/Time of Sample Collection	(G) Corresponding CLP Inorganic Sample Number	(H) Sample Condition on Receipt	(I) High Conc. Phases <i>(Check below)</i>		
			VOA	BNA	Pest/ PCB	ARO/ TOX						Solid	Wa- ter— MIS Liq.	Nor- Wa- ter— MIS Liq.
L-E 85	2	L	X				DEU BUNAK	TELSON	4/23	1740	OK			
L-E 96	↓	↓	X					GW15	1	1240	↓			
L-E 87	↓	↓	X					GW17	1	1245	↓			
L-E 83	↓	↓	X					GW16	1	1255	↓			
L-P 91	↓	↓	X					GW11	1	1251	↓			
L-P 93	✓	✓	X					GW12	1	1253	↓			
							CONE	IMPLET						

United States Environmental Protection Agency
Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report

(For CLP Use Only)

Case Number

SAS No (if applicable)

1. 4. 11

1. Sample Description (Enter in Column A)

1. Surface Water
2. Ground Water
3. Leachate
4. Rinsate
5. Soil/Sediment
6. Oil (SAS)
7. Waste (SAS)
8. Other (SAS) (Specify)

IF VOA SAMPLE PRESERVED INDICATE IN
COLUMN C WITH Y OR N.

2. Region Number

Sampling Co.

4. Date Shipped

Carrier

5. Date Received	Received by
------------------	-------------

Received by

Quercus

422.91

104-1

15/11/20

Sampler (Name)	
----------------	--

Airbill Number

Laboratory Contract Number

Unit Price

3. Ship To:

Triple volume required for matrix spike/duplicate aqueous sample.

6. Transfer to

Date Received	
---------------	--

Ship medium and high concentration samples in paint cans.

Received by

Contract Number

Price

See reverse for additional instructions.

[illegible]

May 3, 1991

Vol 1 of 1

US DEPT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
LABORATORY

Narrative Case: 16246 SAS 6092E
S-CUBED Contract No. 68D90027

This case consists of the following samples reported under SDG : EKP98

EKP98	EKZ83	EKP91
EKP99	EKZ85	EKP93
EKZ78	EKZ86	PX346 (VOA PEM)
EKZ84	EKZ87	

Notes: This SDG is for volatile analysis only.

Dilution Summary:

VOA EKZ83 (1:5) EKZ87 (1:5)

Volatile samples EKZ83 and EKZ87 required dilution due to high levels of trichloroethene (EKZ83) and 1,1,1-trichloroethane and CS₂ (EKZ87). The minimum RRFs for 1,2-dichloroethane, bromochloromethane, and 1,1,2,2-tetrachloroethane were noncompliant for the initial and continuing calibration standard analyses. Acetone was detected in the blank on 04/26 at 25 ug/l.

Several modifications of the volatile protocol have been necessary to achieve the most accurate data. The quantitation mass of 4-bromofluorobenzene has been changed from m/e 95 to m/e 174 due to an interference in the calibration standards from 1,1,2,2 tetrachloroethane.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Mark O. White
5/3/91

2LCA
LOW CONC. WATER VOLATILE SURROGATE RECOVERY

Lab Name: S-Cubed Contract: 68-39-2027
Lab Code: 53 Case No.: 16246 SAS No.: 6092E SDG No.: EKP98

	EPA SAMPLE NO.	BFB %REC #	OTHER	TOT OUT
01	EKP91	99		0
02	EKP93	96		0
03	EKP98	91		0
04	EKP99	91		0
05	EK278	90		0
06	EK283	89		0
07	EK283DL	93		0
08	EK285	89		0
09	EK286	92		0
10	EK287	93		0
11	EK287DL	92		0
12	PX430	104		0
13	USBLK23	89		0
14	USBLK24	98		0
15	USBLK01	93		0
16	USBLK02	95		0
17	USBLK03	89		0
18	USBLK01	87		0
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

QC LIMITS
%REC

BFB = Bromofluorobenzene (80-120)

Column to be used to flag recovery values.
* Values outside of contract required QC limits.
D Surrogate diluted out.

3LCA
LOW CONC. WATER VOLATILE LAB CONTROL RECOVERY

EPA SAMPLE NO.

VLCS01

Lab Name: S-CUEE

Contract: 68_D9_0027

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VLCS01

LCS Lot No. 1047

Lab File ID: A0429041

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

LCS Aliquot: 10 (uL)

COMPOUND	AMOUNT ADDED (ng)	AMT REC (ng)	%REC	GC LIMITS
VINYL CHLORIDE	125	128	102	40-160
1,2-DICHLOROETHANE	125	140	112	40-160
CARBON TETRACHLORIDE	125	111	88	40-160
1,2-DICHLOROPROPANE	125	122	98	40-160
TRICHLOROETHENE	125	109	87	40-160
1,1,2-TRICHLOROETHANE	125	118	94	40-160
BENZENE	125	163	130	40-160
trans-1,2-DICHLOROPROPENE	125	138	111	40-160
BROMOFORM	125	131	104	40-160
TETRACHLOROETHENE	125	118	94	40-160
1,2-DICHLOROETHANE	125	122	98	40-160
1,4-DICHLOROBENZENE	125	111	89	40-160

* Column to be used to flag LCS recovery with an asterisk

* Values outside of GC limits

LCS Recovery 0 outside limits out of 12 total.

COMMENTS:

LOW CONC. WATER

4LCA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VBLK01

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VBLK01

Date Extracted: NA

Lab File ID: AA26031

Date Analyzed: 26-APR-91

Instrument ID: VG1

Time Analyzed: 1530

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	PX436	PX436	AA26041	1630
02	EKP98	EKP98	AA26061	1829
03	EKP98	EKP98	AA26071	1928
04	EKZ78	EKZ78	AA26081	2028
05	EKZ84	EKZ84	AA26091	2128
06	VBLK23	VBLK23	AA26101	2227
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

ALCA

EPA SAMPLE NO

Method Blank Summary

VBLK02

Lab Name: S-1

Contract: 68-DE-0027

Lab Code: 53

Case No.: 16246

SAS No.: 60925

SDG No.: EKP96

Lab Sample ID: VBLK02

Date Extracted: NA

Lab File ID: A0429031

Date Analyzed: 29-APR-91

Instrument ID: V01

Time Analyzed: 1523

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

EPA SAMPLE NO	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01: VL0501	VL0501	A0429041	1635 1623
02: VBLK24	VBLK24	A0429051	1723 1722
03: EK183	EK183	A0429061	1822 -
04: EK185	EK185	A0429071	1922 -
05: EK186	EK186	A0429081	2021 -
06: EK187	EK187	A0429091	2121 -
07: EKP91	EKP91	A0429101	2221 2220
08: EKP93	EKP93	A0429111	2321 2320
09:			
10:			
11:			
12:			
13:			
14:			
15:			
16:			
17:			
18:			

COMMENTS:

LOW COND. WATER

4LCA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: S-00522

Contract: 68_D9_0027

VBK03

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VBK03

Date Extracted: NA

Lab File ID: A0430031

Date Analyzed: 30-APR-91

Instrument ID: VG1

Time Analyzed: 1231

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	EK287DL	EK287DL	A0430051	1454
02	EK283DL	EK283DL	AA30011	1551
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				

COMMENTS:

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-1000

Contract: 65-D-0027

VBK01

Lab Code: 50

Case No. 16246

SAC No. 6072E

SDG No. EKP98

Lab Sample ID: VBK01

Date Received:

Lab File ID: 4426031

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-2	CHLOROMETHANE	1.0	U
74-83-6	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-0	CHLOROETHANE	1.0	U
75-08-1	METHYLENE CHLORIDE	1.8	U
67-64-1	ACETONE	24.9	
75-15-0	CARBON DISULFIDE	1.0	U
75-35-9	1,1-DICHLOROETHENE	1.0	U
75-35-3	1,1-DICHLOROETHANE	1.0	U
156-57-2	cis 1,2-DICHLOROETHENE	1.0	U
156-58-3	trans 1,2-DICHLOROETHENE	1.0	U
67-6-1	CHLOROFORM	1.0	U
107-06-1	1,2-DICHLOROETHANE	1.0	U
78-93-2	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-2	BROMODICHLOROMETHANE	1.0	U
76-87-0	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-18-1	DIBROMOCHLOROMETHANE	1.0	U
79-01-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-5	trans 1,3-DICHLOROPROPENE	1.0	U
75-28-5	BROMOFORM	1.0	U
106-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-30-9	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-86-0	1,4-DICHLOROBENZENE	1.0	U
95-57-8	1,2-DICHLORODENZENE	1.0	U
96-12-2	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
 LOW CONCENTRATION VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CRAFT

Contract: 68_D9_0027

VBLK01

Lab Code: 55

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP9B

Lab Sample ID: VBLK01

Date Received:

Lab File ID: A426031

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-0052

Contract: 68_D9_0027

VBLK02

Lab Code: SB

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VBLK02

Date Received:

Lab File ID: A0429031

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	1.0	U
74-82-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-03-3	CHLOROETHANE	1.0	U
75-05-2	METHYLENE CHLORIDE	0.1	U
67-64-1	ACETONE	0.8	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-2	1,1-DICHLOROETHENE	1.0	U
75-35-3	1,1-DICHLOROETHANE	1.0	U
156-57-4	cis 1,2-DICHLOROETHENE	1.0	U
156-58-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-3	CHLOROFORM	1.0	U
107-26-2	1,2-DICHLOROETHANE	1.0	U
78-93-2	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-2	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
75-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-2	TRICHLOROETHENE	1.0	U
124-45-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-2	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
571-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CURED

Contract: 68_D9_0027

VBLK02

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VBLK02

Date Received:

Lab File ID A0429031

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found

0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

FORM 1 LCV-TIC

4/90

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-1-111

Contract: 68_D9_0027

VBLK03

Lab Code: 50

Case No.: 16246

SAS No: 6092E

SDG No.: EKP98

Lab Sample ID: VBLK03

Date Received:

Lab File ID: A0430031

Date Analyzed: 30-APR-91

Purge Volume: 20 (mL)

Dilution Factor: 1

CAS No.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-89-5	BROMOMETHANE	1.0	U
75-01-2	VINYL CHLORIDE	1.0	U
75-05-8	CHLOROETHANE	1.0	U
75-06-6	1,1-DIMETHYLENE CHLORIDE	0.4	U
67-68-2	ACETONE	1.7	U
75-11-6	CARBON DISULFIDE	1.0	U
75-35-7	1,1-DICHLOROTHANE	1.0	U
75-35-7	1,1-DICHLOROETHANE	1.0	U
156-59-1	cis-1,2-DICHLOROETHENE	1.0	U
156-59-1	trans-1,2-DICHLOROETHENE	1.0	U
67-68-2	CHLOROFORM	1.0	U
107-06-1	1,2-DICHLOROETHANE	1.0	U
75-94-2	2-BUTANONE	5.0	U
74-98-6	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-28-5	BROMODICHLOROMETHANE	1.0	U
75-28-5	1,2-DICHLOROPROPANE	1.0	U
1008-11-2	cis-1,3-DICHLOROPROPENE	1.0	U
79-07-2	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-07-2	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
1008-11-2	trans-1,3-DICHLOROPROPENE	1.0	U
75-28-5	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-58-3	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-0	1,2-DIBROMO-2-CHLOROPROPANE	1.0	U

EPA SAMPLE NO.

VB LK 03

SDG No. : EKP98

Date Received:

Date Analyzed: 30-APR-91

Dilution Factor: 1

0

FORM I LCV-TIC

4/90

11C4
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-0000

Contract: 68_D9_0027

EKP91

24A

Lab Code: 90

Case No.: 16246

SAC No.: 6092E

SDG No.: EKP96

Lab Sample ID: EKP91

Date Received: 24-APR-91

Lab File ID: A0429101

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-89-5	BROMOMETHANE	1.0	U
75-00-4	VINYL CHLORIDE	1.0	U
78-00-1	CHLOROETHANE	1.0	U
78-00-1	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-10-5	CARBON DISULFIDE	0.3	U
78-36-3	1,1-DICHLOROETHANE	1.0	U
78-36-3	1,1-DICHLOROETHANE	1.9	U
106-86-4	1,2-DICHLOROETHANE	1.0	U
106-86-4	1,2-DICHLOROETHANE	1.0	U
67-10-1	CHLOROFORM	1.0	U
107-10-9	1,1,1-TRICHLOROETHANE	1.0	U
78-36-3	2-BUTANONE	5.0	U
74-89-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	2.6	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-2	BROMODICHLOROMETHANE	1.0	U
78-27-2	1,2-DICHLOROPROPANE	1.0	U
1006-11-6	1,1,3-DICHLOROPROPENE	1.0	U
78-00-1	TRICHLOROETHANE	0.8	U
124-10-4	DIBROMOCHLOROMETHANE	1.0	U
78-00-1	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
1006-11-6	trans-1,3-DICHLOROPROPENE	1.0	U
75-28-5	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.2	U
78-36-3	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-86-4	1,2-DIBROMOETHANE	1.0	U
105-93-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
105-66-2	1,4-DICHLOROBENZENE	1.0	U
55-65-5	1,2-DICHLOROBENZENE	1.0	U
96-12-0	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

MILCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-01333

Contract: 68_D9_0027

EKP91

34A

6092E

Lab Code: SD

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKP91

Date Received: 24-APR-91

Lab File ID: A0429101

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: S-10000

Contract: 68_D9_0027

EKP93

340

Lab Code: S2

Case No : 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID EKP93

Date Received: 24-APR-91

Lab File ID A0429111

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-27-3	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-0	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.8	
156-58-2	cis 1,2-DICHLOROETHENE	1.0	U
156-50-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-2	CHLOROFORM	1.0	U
107-11-3	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-93-2	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	2.3	
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-3	BROMODICHLOROMETHANE	1.0	U
78-84-3	1,2-DICHLOROPROPANE	1.0	U
10061-11-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-1	TRICHLOROETHENE	0.7	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-3	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-25-5	trans 1,3-DICHLOROPROPENE	1.0	U
75-28-0	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.2	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-88-7	1,4-DICHLOROBENZENE	1.0	U
95-5-1	1,2-DICHLOROBENZENE	1.0	U
96-12-0	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP93

Lab Code: 53

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP9B

Lab Sample ID: EKP93

Date Received: 24-APR-91

Lab File ID: A0429111

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
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8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-SUBED

Contract: 68_D9_0027

EKP98

Lab Code: SC

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID EKP98

Date Received: 23-APR-91

Lab File ID AA26061

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-07-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.20-8	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	0.5	U
75-34-3	1,1-DICHLOROETHANE	1.2	U
156-58-4	cis 1,2-DICHLOROETHENE	1.0	U
156-59-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-2	CHLOROFORM	5.21-1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-92-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-1	1,1,1-TRICHLOROETHANE	4.8	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-2	TRICHLOROETHENE	0.7	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-01-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.1	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.2	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-0	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

5.22.9
L.F.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP98

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKP98

Date Received: 23-APR-91

Lab File ID: AA26061

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 0

GAS NUMBE-	COMPOUND	RT	EST. CONC (ug/L)	G
1				
2				
3				
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBET

Contract: 65_D9_0027

EKP99

Lab Code: SE

Case No.: 16246

SAC No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKP99

Date Received: 23-APR-91

Lab File ID: AA26071

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	0.9	J
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-08-3	CHLOROETHANE	1.0	U
75-09-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	301.5	J
75-15-1	CARBON DISULFIDE	0.4	J
75-35-9	1,1-DICHLOROETHENE	0.6	J
75-35-1	1,1-DICHLOROETHANE	1.4	U
156-57-0	1,2-DICHLOROETHENE	1.0	U
156-58-1	1,2-DICHLOROETHANE	1.0	U
67-68-1	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	1.5	J
74-95-9	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	5.9	U
55-27-5	CARBON TETRACHLORIDE	1.0	U
75-27-2	BROMODICHLOROMETHANE	1.0	U
75-83-3	1,2-DICHLOROPROPANE	1.0	U
1006-11-5	1,3-DICHLOROPROPENE	1.0	U
79-04-1	TRICHLOROETHENE	0.8	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-03-5	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-13-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.1	J
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-73-4	1,2-DIBROMOETHANE	1.0	U
108-38-2	TOLUENE	7.6	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-18-7	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

BU 5.22.91
L.F.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKP99

402

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP9B

Lab Sample ID: EKP99

Date Received: 23-APR-91

Lab File ID: A426071

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
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97				
98				
99				
100				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CULEO

Contract: 68_D9_0027

EKZ78

Lab Code: SE

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ78

Date Received: 23-APR-91

Lab File ID: AA26081

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-5	CHLOROETHANE	1.0	U
75-00-2	METHYLENE CHLORIDE	200.1	JBUL 5.22.
67-64-1	ACETONE	500.8	JBUL L.F.
75-15-0	CARBON DISULFIDE	0.3	J
75-35-9	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-87-4	cis 1,2-DICHLOROETHENE	1.0	U
156-85-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-2	CHLOROFORM	5.2	U
107-10-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-58-3	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.4	J
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-3	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-72-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-73-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	0.1	J
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
105-41-7	1,4-DICHLOROBENZENE	1.0	U
95-51-1	1,2-DICHLOROBENZENE	1.0	U
96-12-3	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBEE

Contract: 68_D9_0027

EKZ78

Lab Code: SE

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ78

Date Received: 23-APR-91

Lab File ID: AA26081

Date Analyzed: 26-APR-91

Purge Volume: 35 (mL)

Dilution Factor: 1

Number TICs: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
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10				

ILCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-00235

Contract: 68_D9_0027

EKZ83

Lab Code: SE

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ83

Date Received: 24-APR-91

Lab File ID: A0429061

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-7	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-08-3	CHLOROETHANE	1.0	U
75-07-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-9	1,1-DICHLOROETHENE	0.1	U
75-34-1	1,1-DICHLOROETHANE	7.4	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-59-4	trans 1,2-DICHLOROETHENE	0.4	U
67-63-3	CHLOROFORM	1.0	U
107-11-3	1,2-DICHLOROETHANE	1.0	U
78-93-4	2-BUTANONE	5.0	U
74-97-6	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	10.2	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-2	BROMODICHLOROMETHANE	1.0	U
78-67-6	1,2-DICHLOROPROPANE	1.0	U
106-11-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-2	TRICHLOROETHENE	40.2	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-01-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-03-2	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-98-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-72-1	1,3-DICHLOROBENZENE	1.0	U
106-41-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ83

340

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ83

Date Received: 24-APR-91

Lab File ID: A0429061

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
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1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-10000

Contract: 6E_D9_0027

EKZ83DL

Lab Code: SC

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ83DL

Date Received: 24-APR-91

Lab File ID: A430011

Date Analyzed: 30-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	5.0	0
74-83-9	BROMOMETHANE	5.0	0
75-01-4	VINYL CHLORIDE	5.0	0
75-00-3	CHLOROETHANE	5.0	0
75-07-2	METHYLENE CHLORIDE	5.3	0
67-64-1	ACETONE	8.1	0
75-15-0	CARBON DISULFIDE	1.5	0
75-35-4	1,1-DICHLOROETHENE	5.0	0
75-34-3	1,1-DICHLOROETHANE	6.8	0
156-30-0	cis 1,2-DICHLOROETHENE	5.0	0
156-30-1	trans 1,2-DICHLOROETHENE	0.4	0
67-63-1	CHLOROFORM	5.0	0
107-06-2	1,2-DICHLOROETHANE	5.0	0
78-93-2	2-BUTANONE	25.0	0
74-97-8	BROMOCHLOROMETHANE	5.0	0
71-55-6	1,1,1-TRICHLOROETHANE	8.2	0
56-23-5	CARBON TETRACHLORIDE	5.0	0
75-27-2	BROMODICHLOROMETHANE	5.0	0
78-87-5	1,2-DICHLOROPROPANE	5.0	0
100-47-1	cis 1,3-DICHLOROPROPENE	5.0	0
79-00-1	TRICHLOROETHENE	30.7	0
124-48-1	DIBROMOCHLOROMETHANE	5.0	0
79-00-1	1,1,2-TRICHLOROETHANE	5.0	0
71-43-2	BENZENE	5.0	0
100-47-1	trans 1,3-DICHLOROPROPENE	5.0	0
75-25-2	BROMOFORM	5.0	0
108-10-1	4-METHYL-2-PENTANONE	25.0	0
591-78-1	2-HEXANONE	25.0	0
127-18-4	TETRACHLOROETHENE	1.4	0
79-34-5	1,1,2,2-TETRACHLOROETHANE	5.0	0
106-73-2	1,2-DIBROMOETHANE	5.0	0
108-88-3	TOLUENE	5.0	0
108-90-7	CHLOROBENZENE	5.0	0
100-41-4	ETHYLBENZENE	5.0	0
100-42-5	STYRENE	5.0	0
1330-20-7	XYLENES (total)	5.0	0
541-72-1	1,3-DICHLOROBENZENE	5.0	0
106-46-7	1,4-DICHLOROBENZENE	5.0	0
95-50-1	1,2-DICHLOROBENZENE	5.0	0
96-12-0	2-DIBROMO-3-CHLOROPROPANE	5.0	0

5.22.91
L.F.

1LCA
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S- TEL

Contract: 6S_DF_0027

EKZ83DL

340

Lab Code: S-

Case No: 16246

SAS No: 6092E

SDG No.: EKP95

Lab Sample ID: EKZ83DL

Date Received: 24-APR-91

Lab File ID: A-33011

Date Analyzed: 30-APR-91

Sample Volume: 20 mL

Dilution Factor: 5

Number TICs: 0

GAS NUMBER	COMPOUND	RT	EST. CONC.		Q
			(ug/L)		
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

LOW CONC - PETRO VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO

Lab Name: S-11230

Contract: 65_DS_0027

(EKZ84

330)

Center TRCH

Lab Code: SD Case No.: 16246

SAC No.: 4092E

SDG No.: EKP98

Lab Sample ID: CKZ84

Date Received: 23-APR-91

Lab File ID: A426091

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

GAS NO.	COMPOUND	CONCENTRATION (ug/L)
74-8	CHLOROMETHANE	1.0
74-83	BROMOMETHANE	1.0
75-0	VINYL CHLORIDE	1.0
75-0	CHLOROETHANE	1.0
75-0	METHYLENE CHLORIDE	2.00
47-6	ACETONE	5.0
75-18	CARBON DISULFIDE	0.3
75-3	1,1-DICHLOROETHENE	1.0
75-3	1,1-DICHLOROETHANE	1.0
156-5	cis 1,2-DICHLOROETHENE	1.0
156-5	trans 1,2-DICHLOROETHENE	1.0
67-6	CHLOROFORM	4.4
107-1	1,2-DICHLOROETHANE	1.0
78-9	2-BUTANONE	5.0
74-9	BROMOCHLOROMETHANE	1.0
71-5	1,1,1-TRICHLOROETHANE	6.1
55-2	CARBON TETRACHLORIDE	1.0
75-2	BROMODICHLOROMETHANE	0.4
78-3	1,2-DICHLOROPROPANE	1.0
1006	cis 1,3-DICHLOROPROPENE	1.0
79-0	TRICHLOROETHENE	1.0
124-0	DIBROMOCHLOROMETHANE	1.0
79-0	1,1,2-TRICHLOROETHANE	1.0
71-4	BENZENE	1.0
1006	trans 1,3-DICHLOROPROPENE	1.0
75-2	BROMOFORM	1.0
108-10	4-METHYL-2-PENTANONE	5.0
591-78	2-HEXANONE	5.0
127-18	TETRACHLOROETHENE	1.0
77-3	1,1,2,2-TETRACHLOROETHANE	1.0
106-98	1,2-DIBROMOETHANE	1.0
108-88	TOLUENE	1.0
108-90	CHLOROBENZENE	1.0
100-41	ETHYLBENZENE	1.0
100-42	STYRENE	1.0
1330-20	XYLENES (total)	1.0
541-74	1,3-DICHLOROBENZENE	1.0
106-98	1,4-DICHLOROBENZENE	1.0
95-50	1,2-DICHLOROBENZENE	1.0
96-10	1,2-DIBROMO-3-CHLOROPROPANE	1.0

ALL 5.22.91
L.F.

TILCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 6E_D9_0027

EKZ84

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ84

Date Received: 23-APR-91

Lab File ID: AA26091

Date Analyzed: 26-APR-91

Purge Volume: 20 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBE1

Contract: 68_D9_0027

EKZ85

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ85

Date Received: 24-APR-91

Lab File ID AC429071

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-3	CHLOROETHANE	1.0	U
75-07-2	METHYLENE CHLORIDE	2.00	U
67-63-1	ACETONE	5.0	U
75-15-0	CARBON DISULFIDE	0.2	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	0.10	U
156-58-4	cis 1,2-DICHLOROETHENE	1.0	U
156-58-5	trans 1,2-DICHLOROETHENE	1.0	U
67-61-3	CHLOROFORM	4.3	U
107-12-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-1	1,1,1-TRICHLOROETHANE	0.10	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	0.3	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-3	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-2	TRICHLOROETHENE	0.2	U
124-42-1	DIBROMOCHLOROMETHANE	1.0	U
79-01-5	1,1,2-TRICHLOROETHANE	1.0	U
71-42-3	BENZENE	1.0	U
10061-02-2	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-0	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

BU 5.22.91
L.F.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ85

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ85

Date Received: 24-APR-91

Lab File ID: A0429071

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs: 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUEE

Contract: 68_D9_0027

EKZ86

RW15

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ86

Date Received: 24-APR-91

Lab File ID: A0429081

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-2	CHLOROETHANE	1.0	U
75-00-2	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-13-0	CARBON DISULFIDE	1.0	U
75-35-2	1,1-DICHLOROETHENE	1.3	
75-34-3	1,1-DICHLOROETHANE	1.1	
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	0.1	U
67-66-3	CHLOROFORM	0.3	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-9	1,1,1-TRICHLOROETHANE	18.7	
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-1	TRICHLOROETHENE	9.8	
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	0.6	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-95-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-6	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

EKZ86

Lab Code: S2

Case No.: 16246

SAS No.: 6092E

SDQ No.: EKP98

Lab Sample ID: EKZ86

Date Received: 24-APR-91

Lab File ID: A0429081

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs Found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-10121

Contract: 65_D7_0027

EKZ87
23(6)

Lab Code: 57

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ87

Date Received: 24-APR-91

Lab File ID: A0429091

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	g
74-87-3	CHLOROMETHANE	1.0	U
74-83-2	BROMOMETHANE	1.0	U
75-01-2	VINYL CHLORIDE	1.0	U
75-01-2	CHLOROETHANE	1.0	U
75-07-3	METHYLENE CHLORIDE	2.0	U
67-64-1	ACETONE	5.0	U
75-15-1	CARBON DISULFIDE	39.3	U
75-35-9	1,1-DICHLOROETHENE	1.9	U
75-35-9	1,1-DICHLOROETHANE	7.6	U
156-57-1	cis-1,2-DICHLOROETHENE	1.0	U
156-57-1	trans-1,2-DICHLOROETHENE	0.1	U
67-68-2	CHLOROFORM	1.0	U
107-12-1	1,2-DICHLOROETHANE	1.0	U
78-93-2	2-BUTANONE	5.0	U
74-87-3	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	53.5	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-2	BROMODICHLOROMETHANE	1.0	U
78-97-8	1,2-DICHLOROTRIFLUOROETHANE	1.0	U
1005-93-8	cis-1,3-DICHLOROPROPENE	1.0	U
74-83-2	TRICHLOROETHENE	3.3	U
124-18-5	DIBROMOCHLOROMETHANE	1.0	U
79-00-2	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	1.0	U
1005-93-8	trans-1,3-DICHLOROPROPENE	1.0	U
75-27-2	BROMOFORM	1.0	U
108-90-7	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-6	TETRACHLOROETHENE	0.4	U
79-34-9	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-7	1,2-DIBROMOETHANE	1.0	U
108-90-7	TOLUENE	0.1	U
102-71-2	CHLOROBENZENE	1.0	U
100-91-1	ETHYLBENZENE	1.0	U
100-91-1	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-93-7	1,4-DICHLOROBENZENE	1.0	U
95-50-8	1,2-DICHLOROBENZENE	1.0	U
95-1-1	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-00000

Contract: 68_D9_0027

EKZ87

236

Lab Code: S2

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: EKZ87

Date Received: 24-APR-91

Lab File ID: 40429091

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs: 0

VAS NUMBER	COMPOUND	EST. CONC. (ug/L)	Q
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

LOW CONC. VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-0017

Contract: 68_DF_0027

EKZ87DL

(236)

Lab Code: 50

Case No.: 16246

SAC No: 6072E

SDG No.: EKP98

Lab Sample ID: EKZ87DL

Date Received: 24-APR-91

Lab File ID: A0430001

Date Analyzed: 30-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

CAS NO. COMPOUND CONCENTRATION (ug/L) g

74-87-5	CHLOROMETHANE	5.0	U
74-83-5	BROMOMETHANE	5.0	U
75-07-0	VINYL CHLORIDE	5.0	U
75-07-0	CHLOROETHANE	5.0	U
75-07-0	METHYLENE CHLORIDE	2.1	U
67-64-1	ACETONE	5.47	U
75-10-5	CARBON DISULFIDE	60.7	U
75-35-0	1,1-DICHLOROETHANE	1.6	U
75-34-3	1,1-DICHLOROETHANE	6.5	U
156-59-0	1,1,2-DICHLOROETHANE	5.0	U
156-59-0	trans 1,2-DICHLOROETHANE	5.0	U
67-66-1	CHLOROFORM	5.0	U
107-1-1	2-TRICHLOROETHANE	5.0	U
75-51-0	2-FLUORINE	25.0	U
74-57-0	BROMOCHLOROMETHANE	5.0	U
71-55-0	TRICHLOROETHANE	40.4	U
65-20-0	CARBON TETRACHLORIDE	5.0	U
75-27-0	BROMODICHLOROETHANE	5.0	U
78-07-0	1,1,2-DICHLOROPROPANE	5.0	U
100-61-0	1,1,3-DICHLOROPROPANE	5.0	U
79-01-0	TRICHLOROETHANE	2.0	U
124-48-0	TRICHOCHLOROMETHANE	5.0	U
79-01-0	1,1,2-TRICHLOROETHANE	5.0	U
71-43-0	BENZENE	5.0	U
1006-11-0	trans 1,3-DICHLOROPROPENE	5.0	U
75-28-0	BROMOFORM	5.0	U
108-11-0	AMETHYL-2-PENTANONE	25.0	U
591-72-0	2-HEXANONE	25.0	U
127-18-4	TETRACHLOROETHYLENE	0.4	U
79-34-0	1,1,2,2-TETRACHLOROETHANE	5.0	U
106-73-4	1,2-DIBROMOETHANE	5.0	U
108-90-0	TOLUENE	5.0	U
109-01-0	CHLOROBENZENE	5.0	U
100-01-0	ETHYLBENZENE	5.0	U
100-42-0	STYRENE	5.0	U
1330-63-7	XYLENES (total)	5.0	U
541-73-0	1,3-DICHLOROBENZENE	5.0	U
106-73-4	1,4-DICHLOROBENZENE	5.0	U
95-57-0	1,2-DICHLOROBENZENE	5.0	U
96-13-0	1,2-DIBROMO-3-CHLOROPROPANE	5.0	U

U.P.
U.P.
U.P.
5.23.41
L.F.

1LCA
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-10851

Contract: 68_D9_0027

EKZ87DL

2785

Lab Code: SP

Case No: 16246

SAS No.: 6092E

SDO No.: EKP98

Lab Sample ID: EKZ87DL

Date Received: 24-APR-91

Lab File ID: A0430051

Date Analyzed: 30-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 5

Number TICs: 1

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	G
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONCENTRATION VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VSBLK23

Lab Name: S-0100

Contract: 68_D9_0027

Lab Code: S0

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VSBLK23

Date Received: 23-APR-91

Lab File ID: A426101

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-8	CHLOROETHANE	1.0	U
75-00-2	METHYLENE CHLORIDE	2.005	U
67-64-1	ACETONE	5.015	U
75-16-5	CARBON DISULFIDE	1.0	U
75-35-9	1,1-DICHLOROETHENE	1.0	U
75-35-3	1,1-DICHLOROETHANE	1.0	U
156-60-5	cis 1,2-DICHLOROETHENE	1.0	U
156-60-5	trans 1,2-DICHLOROETHENE	1.0	U
67-65-1	CHLOROFORM	1.0	U
107-06-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-6	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-3	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	1.0	U
124-46-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-9	1,1,2-TRICHLOROETHANE	1.0	U
71-43-0	BENZENE	1.0	U
10061-02-6	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-2	BROMOFORM	1.0	U
108-10-1	4METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-16-4	TETRACHLOROETHENE	1.0	U
79-34-3	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	1.0	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

U 5.22.9
U L.F.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

VSBLK23

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VSBLK23

Date Received: 23-APR-91

Lab File ID: AA26101

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found: 0

CAS NUMBER	COMPOUND	RT	EST. CONC (ug/L)	Q
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-CUBE

Contract: 68_DS_0027

VSBLK24

Lab Code: SE

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VSBLK24

Date Received: 24-APR-91

Lab File ID: A0429051

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-9	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	1.0	U
75-00-0	CHLOROETHANE	1.0	U
75-00-2	METHYLENE CHLORIDE	2.00	U
67-64-1	ACETONE	50 2.2	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-34-3	1,1-DICHLOROETHANE	1.0	U
156-57-2	cis 1,2-DICHLOROETHENE	1.0	U
156-58-3	trans 1,2-DICHLOROETHENE	1.0	U
67-68-2	CHLOROFORM	1.0	U
107-11-2	1,2-DICHLOROETHANE	1.0	U
78-93-3	2-BUTANONE	5.0	U
74-97-5	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	1.0	U
75-27-3	BROMODICHLOROMETHANE	1.0	U
78-67-5	1,2-DICHLOROPROPANE	1.0	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-1	TRICHLOROETHENE	1.0	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-01-5	1,1,2-TRICHLOROETHANE	1.0	U
71-43-2	BENZENE	0.1	U
10061-02-8	trans 1,3-DICHLOROPROPENE	1.0	U
75-25-1	BROMOFORM	1.0	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	1.0	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	1.0	U
108-90-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
91-07-1	1,3-DICHLOROBENZENE	1.0	U
91-07-2	1,4-DICHLOROBENZENE	1.0	U
91-07-3	1,2-DICHLOROBENZENE	1.0	U
91-07-4	1,2-DIBROMO-3-CHLOROBENZENE	1.0	U

5.22.91
L.F.

2025年1月1日

145811

1205-1206-1207

SDG INC. TEL: 408-735-1100

Date Received: 22-APR-68

Date Analyzed: 8-1-88

Dilution Factor: 1

~~Q~~[illegible]

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: S-DURB

Contract: 68_D9_0027

VLCS01

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: VLCS01

Date Received:

Lab File ID: A0429041

Date Analyzed: 29-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION (ug/L)	Q
74-87-3	CHLOROMETHANE	1.0	U
74-83-7	BROMOMETHANE	1.0	U
75-01-4	VINYL CHLORIDE	5.1	U
75-00-3	CHLOROETHANE	1.0	U
75-07-2	METHYLENE CHLORIDE	1.3	U
67-64-1	ACETONE	5.9	U
75-15-0	CARBON DISULFIDE	1.0	U
75-35-4	1,1-DICHLOROETHENE	1.0	U
75-35-5	1,1-DICHLOROETHANE	1.0	U
156-59-4	cis 1,2-DICHLOROETHENE	1.0	U
156-59-5	trans 1,2-DICHLOROETHENE	1.0	U
67-68-3	CHLOROFORM	1.0	U
107-04-2	1,2-DICHLOROETHANE	5.6	U
78-93-3	2-BUTANONE	5.0	U
74-97-3	BROMOCHLOROMETHANE	1.0	U
71-55-6	1,1,1-TRICHLOROETHANE	1.0	U
56-23-5	CARBON TETRACHLORIDE	4.4	U
75-27-4	BROMODICHLOROMETHANE	1.0	U
78-87-5	1,2-DICHLOROPROPANE	4.9	U
10061-01-5	cis 1,3-DICHLOROPROPENE	1.0	U
79-01-6	TRICHLOROETHENE	4.4	U
124-48-1	DIBROMOCHLOROMETHANE	1.0	U
79-00-8	1,1,2-TRICHLOROETHANE	4.7	U
71-43-2	BENZENE	6.5	U
10061-02-5	trans 1,3-DICHLOROPROPENE	5.5	U
75-20-2	BROMOFORM	5.2	U
108-10-1	4-METHYL-2-PENTANONE	5.0	U
591-78-6	2-HEXANONE	5.0	U
127-18-4	TETRACHLOROETHENE	4.7	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	1.0	U
106-93-4	1,2-DIBROMOETHANE	4.9	U
108-88-3	TOLUENE	1.0	U
108-90-7	CHLOROBENZENE	1.0	U
100-41-4	ETHYLBENZENE	1.0	U
100-42-5	STYRENE	1.0	U
1330-20-7	XYLENES (total)	1.0	U
541-73-1	1,3-DICHLOROBENZENE	1.0	U
106-46-7	1,4-DICHLOROBENZENE	4.4	U
95-50-1	1,2-DICHLOROBENZENE	1.0	U
95-17-1	1,2-DIBROMO-3-CHLOROPROPANE	1.0	U

5.22.91
L.F.

EPA SAMPLE NO.

!PX436

SDG No. : EKP98

Date Received: 25-APR-91

Date Analyzed: 26-APR-91

Dilution Factor: 1

5.22.9
L.F.

1LCA
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: S-CUBED

Contract: 68_D9_0027

PX436

Lab Code: S3

Case No.: 16246

SAS No.: 6092E

SDG No.: EKP98

Lab Sample ID: PX436

Date Received: 25-APR-91

Lab File ID: AA26041

Date Analyzed: 26-APR-91

Purge Volume: 25 (mL)

Dilution Factor: 1

Number TICs found 1

CAS NUMBER	COMPOUND	RT	EST. CONC. (ug/L)	g
1	<i>Chloro Methyl Benzene isomer</i>	<i>31.43</i>	<i>21</i>	<i>JN</i>
2				
3				
4				
5				
6				
7				
8				
9				
10				

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. _____ (2) CERCLIS No. _____
Case No. 16246SAS6092E Site Name Location: National Presto Industries (u
Contractor or EPA Lab: S-CUBED Data User: Weston
No. of Samples: 10 Date Samples or Data Received: May 7, 1991
Have Chain-of-Custody records been received? YES 6 NO _____
Have traffic reports or packing lists been received? YES 5 NO _____
If no, are traffic report or packing list numbers written on the
chain-of-custody record? YES _____ NO _____
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? YES Y NO _____
No. of samples claimed: 10 No. of samples received: 10
Received by: A. C. Harvey Date: 5-7-91
Received by LSSS: SM Date: 5-7-91
Review started: 5.21.91 Reviewer Signature: L. Finkelberg
Total time spent on review: 14.0 Date review completed: 5.22.91
Copied by: John Date: 5/24/91
Mailed to user by: A. C. Harvey Date: 5-29-91

DATA USERS:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, 5SCRL

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete [] Suitable for Intended Purpose [] ☒ If OK
Organic Data Complete [] Suitable for Intended Purpose [] list
Dioxin Data Complete [] Suitable for Intended Purpose [] prblms
SAS Data Complete [] Suitable for Intended Purpose [] below.

PROBLEMS: Please indicate reasons why data are not suitable for
your uses.

Received by Data Mgmt. Coordinator for Files Date: _____