N62269.AR.000585
NAWC WARMINSTER
5090.3a

FOSTER WHEELER ENVIRONMENTAL CORPORATION

June 18, 1999
File #: 1284-0018-99-0269

Commanding Officer
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop #82
Lester, PA 19113
Attn.: Code 4022 (S. Lehman)

Subject: US NAVY CONTRACT NO. N62472-94-D-0398
DELIVERY ORDER NO. 0018-06, NAWC WARMINSTER, PA
May, 1999 GROUNDWATER PUMP & TREAT SYSTEM
MONTHLY REPORT

Dear Mr. Lehman:

This letter report provides the results of the May, 1999 sampling and the activities performed during the reporting period from May 1, 1999 through May 31, 1999. The groundwater treatment plant operated 96% of the reporting period.

As of May 31, 1999 (2400 hours) a total of 1,018,367 gallons of groundwater had been treated during the period from May 1, 1999 through May 31, 1999. This brings the total amount of water treated to 37,075,415 gallons (May 31, 1999). During May, 1999 the average effluent flowrate was 23.8 gpm.

The process water was sampled on May 19, 1999. The results of this sampling are presented in the attached table. This data shows that no discharge limits were exceeded during the May, 1999 reporting period. Naphthalene and Trichlorofluoromethane were detected in the Area A influent for the first time during the reporting period. Discharge limits for many of the substances detected have not been set; however, the table shows that all were below detection limits in the treatment plant effluent.

During the reporting period there was one system shutdown:

5/06/99- The Area "C" extraction wells were shut down at 0938 hours. Shutdown of the remainder of the plant followed so that PECO could turn off power to the WWTP. This was done so that Vasoli Electric could change the CSO trailer over to a separate main breaker. The treatment system was operating at 1545 hours on 5/07/99.

Maintenance items performed during the month of May are as follows:

5/07/99 -Area "A" transfer pumps were removed because one of the legs in each pump was damaged due to moisture. They were taken to Kufen Electric for replacement of the windings on the damaged legs.

5/10/99 -Area "C" pump EW-19 was pulled because it was not operating. The galvanized pipe and support cable had corroded and needed to be replaced. The pump and motor were also replaced on 5/11/99. The pump was put online 5/12/99.

5/12/99 -Area "A" sump pumps were picked up from Kufen Electric.

2300 LINCOLN HIGHWAY EAST, 1 OXFORD VALLEY, STE. 200, LANGHORNE, PA 19047
TEL: 215-702-4000 FAX: 215-702-4045

5/14/99 -Area "A" sump pumps were put into place, wired by the electricians, and resumed operation. Wells EW-A6 and EW-A7 resumed pumping at 1539 and 1550 hours, respectively.

5/27/99 -Carbon sample was taken from the liquid and vapor vessels for waste characterization.

The average flow rates for extraction wells EW-18 through EW-21 are shown in the following table.

Well ID	Average Flow Rate (GPM)
EW-18	15.3
EW-19	11.3
EW-20	4.0
EW-21	5.5

The concentrations of organic contaminants in the groundwater influent to the treatment system are presented in the attached table. The mass of each compound removed for the month of May, 1999, as well as the total mass of each contaminant removed through May, 1999 are presented below. The masses removed of those compounds that were only detected in the Area A influent are calculated based on a flowrate of 2 GPM from Area A. The only compound detected in the Area C influent was Tetrachloroethene; this mass removal was based on a flowrate of 21.8 GPM. Carbon Tetrachloride and Trichloroethene were detected in the equalization tank effluent as well as the Area A influent. The mass removal of these compounds was based on the total flowrate of 23.8 GPM.

Compound	May, 1999 (lbs.)	Total to Date (lbs.)
1,1,2-Trichloroethane	0.17	0.56
1,1-Dichloroethene	0.021	0.021
1,2,4-Trimethylbenzene	0.0079	0.0079
1,2-Dichloroethane	0.0069	0.0069
1,3,5-Trimethylbenzene	0.0044	0.0044
Acetone	0	0.077
Benzene	0.026	0.052
Chloroform	0.18	0.40
cis-1,2-dichloroethene	0.034	0.068
Ethylbenzene	0.047	0.084
Isopropylbenzene	0.011	0.011
m&p-Xylenes	0.16	0.258
Methylene Chloride	0.011	0.011
Naphthalene	0.0030	0.0030
n-Propylbenzene	0.011	0.011
o-xylene	0.069	0.130
Tetrachloroethene	0.42	4.14
Toluene	0.26	0.51
Trichlorofluoromethane	0.0033	0.0033
Vinyl Chloride	0.0015	0.0015
Carbon Tetrachloride	3.06	5.31
Trichloroethene	152.97	294.38

Area A Influent (2 GPM)

Calculation:
Average 1,1,2-Trichloroethane concentration = 240 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of 1,1,2-Trichloroethane removed = (2 gpm)(42,831 min)(240 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.17 lbs.

Calculation:
Average 1,1-Dichloroethene concentration = 30 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of 1,1-Dichloroethene removed = (2 gpm)(42,831 min)(30 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.021 lbs.

Calculation:
Average 1,2,4-Trimethylbenzene concentration = 11 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of 1,2,4-Trimethylbenzene removed = (2 gpm)(42,831 min)(11 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0079 lbs.

Calculation:
Average 1,2-Dichloroethane concentration = 9.6 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of 1,2-Dichloroethane removed = (2 gpm)(42,831 min)(9.6 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0069 lbs.

Calculation:
Average 1,3,5-Trimethylbenzene concentration = 6.1 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of 1,3,5-Trimethylbenzene removed = (2 gpm)(42,831 min)(6.1 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0044 lbs.

Calculation:
Average Benzene concentration = 37 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Benzene removed = (2 gpm)(42,831 min)(37 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.026 lbs.

Calculation:
Average Chloroform concentration = 250 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Chloroform removed = (2 gpm)(42,831 min)(250 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.18 lbs.

Area A Influent (cont.)

Calculation:
Average cis-1,2-Dichloroethene concentration = 48 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of cis-1,2-Dichloroethene removed = (2 gpm)(42;831 min)(48 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.034 lbs.

Calculation:
Average Ethylbenzene concentration = 66 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Ethylbenzene removed = (2 gpm)(42,831 min)(66 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.047 lbs.

Calculation:
Average Isopropylbenzene concentration = 16 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Isopropylbenzene removed = (2 gpm)(42,831 min)(16 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.011 lbs.

Calculation:
Average m&p-Xylenes concentration = 220 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of m&p-Xylenes removed = (2 gpm)(42,831 min)(220 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.16 lbs.

Calculation:
Average Methylene Chloride concentration = 16 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Methylene Chloride removed = (2 gpm)(42,831 min)(16 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.011 lbs.

Calculation:
Average Naphthalene concentration = 4.2 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Naphthalene removed = (2 gpm)(42,831 min)(4.2 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0030 lbs.

Calculation:
Average n-Propylbenzene concentration = 16 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of n-Propylbenzene removed = (2 gpm)(42,831 min)(16 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.011 lbs.

Area A Influent (cont.)

Calculation:
Average o-Xylene concentration = 96 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of o-Xylene removed = (2 gpm)(42,831 min)(96 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.069 lbs.

Calculation:
Average PCE concentration = 390 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of PCE removed = (2 gpm)(42,831 min)(390 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.28 lbs.

Calculation:
Average Toluene concentration = 370 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Toluene removed = (2 gpm)(42,831 min)(370 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.26 lbs.

Calculation:
Average Trichlorofluoromethane concentration = 4.6 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Trichlorofluoromethane removed = (2 gpm)(42,831 min)(4.6 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0033 lbs.

Calculation:
Average Vinyl Chloride concentration = 2.1 ug/l
Average water flowrate for month of May, 1999 = 2 gpm
Pounds of Vinyl Chloride removed = (2 gpm)(42,831 min)(2.1 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0015 lbs.

Area C Influent (21.8 GPM)

Calculation:
Average PCE concentration = 18 ug/l
Average water flowrate for month of May, 1999 = 21.8 gpm
Pounds of PCE removed = (21.8 gpm)(42,831 min)(18 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.14 lbs.

Equalization Tank Effluent (23.8 GPM)

Calculation:
Average Carbon Tetrachloride concentration = 360 ug/l
Average water flowrate for month of May, 1999 = 23.8 gpm
Pounds of Carbon Tetrachloride removed = (23.8 gpm)(42,831 min)(360 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 3.06 lbs.

Calculation:
Average TCE concentration = 18,000 ug/l
Average water flowrate for month of May, 1999 = 23.8 gpm
Pounds of TCE removed = (23.8 gpm)(42,831 min)(18,000 ug/L)(3.785 L/gal) (1 g/1,000,000 ug)(1 lb. / 454 g) = 152.97 lbs.

The scheduled dates when Foster Wheeler Environmental's operator will be on-site during the month of July, 1999 are presented in the attached schedule.

If you should have any questions or comments regarding the May, 1999 reporting period, please feel free to contact me at 215-702-4074.

Sincerely,

David J. DiCesare
Project Engineer

cc: L. Monaco (NORTHDIV)
T. Ames (CSO)
M. Hunter (CSO)
E. Beatty (ROICC)
A. Flipse (PADEP)
D. Ostrauskas (USEPA)
R. Predahl (EA)
A. Wills (Bucks Co. Dept. of Health)
D. Fennimore (Earth Data Inc.)
A. Holcomb (FWENC)
J. Irey (FWENC)
File

Foster Wheeler Environmental Corporation
NAWC, Warminster - Groundwater Pump and Treat Plant
May, 1999 - Sampling Results

FWENC - Sample ID		DO-0018-06-008	DO-0018-06-001	DO-0018-06-002	DO-0018-06-003	DO-0018-06-004	DO-0018-06-005	DO-0018-06-006	DO-0018-06-007	
Sample Location		Area A Influent	Area C Influent	Equalization Tank Effluent	Inclined Plate Separator Effluent	Sand Filter Effluent	Air Stripper Effluent	Lead Carbon Unit Effluent	Treatment Plant Effluent	Discharge Limits
Sample Date	Method	19-May-99	19-May-99	19-May-99	19-May-99	19-May-99	19-May-99	19-May-99	19-May-99	Instantaneous Maximum
Total Discharge (gal) thru 5/31/99										1,018,367
Average Discharge Flowrate (gpm) for May, 1999										23 8
pH	EPA 150 1	6 8	6 65	6 75	N/A	6 75	N/A	N/A	6 85	6 0-9 0
Total Suspended Solids (mg/l)	EPA 160 2	12	4	115	20	16	N/A	N/A	2	75 mg/l
Total Organic Carbon (mg/l)	415 1/EPA600	<10	N/A	<10	N/A	N/A	N/A	<10	<10	-
1,1,1,2-Tetrachloroethane	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,1,2-Trichloroethane	EPA 8260B	240	BDL	BDL	N/A	N/A	2 3	BDL	BDL	-
1,1-Dichloroethene	EPA 8260B	30	BDL	BDL	N/A	N/A	BDL	BDL	BDL	0 85 ug/l
1,2,4-Trimethylbenzene	EPA 8260B	11	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,2-Dichloroethane	EPA 8260B	9 6	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,3,5-Trimethylbenzene	EPA 8260B	6 1	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Acetone	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Benzene	EPA 8260B	37	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Carbon Tetrachloride	EPA 8260B	3,700	BDL	360	N/A	N/A	BDL	BDL	BDL	4 2 ug/l
Chloroform	EPA 8260B	250	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
cis-1,2-Dichloroethene	EPA 8260B	48	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Ethylbenzene	EPA 8260B	66	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
isopropylbenzene	EPA 8260B	16	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
m&p-Xylenes	EPA 8260B	220	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Methylene Chloride	EPA 8260B	16	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Naphthalene	EPA 8260B	4 2	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
n-Propylbenzene	EPA 8260B	16	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
o-Xylene	EPA 8260B	96	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Tetrachloroethene	EPA 8260B	390	18	BDL	N/A	N/A	BDL	BDL	BDL	10 0 ug/l
Toluene	EPA 8260B	370	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Trichloroethene	EPA 8260B	20,200	BDL	18,000	N/A	N/A	160	BDL	3 2	42 5 ug/l
Trichlorofluoromethane	EPA 8260B	4 6	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Vinyl Chloride	EPA 8260B	2 1	BDL	BDL	N/A	N/A	BDL	BDL	BDL	0 27 ug/l
Cadmium	SW846	BDL	N/A	BDL	N/A	BDL	N/A	N/A	BDL	4 0 ug/l
Copper	SW846	12 5	N/A	22 6	N/A	13 8	N/A	N/A	9 3	24 0 ug/l
Lead	SW846	BDL	N/A	BDL	N/A	BDL	N/A	N/A	BDL	11 0 ug/l
Zinc	SW846	17 1	N/A	83	N/A	52 2	N/A	N/A	28 4	157 ug/l
Arsenic	SW846	BDL	N/A	BDL	N/A	BDL	N/A	N/A	BDL	0 27 ug/l
Aluminum	SW846	255	N/A	590	N/A	572	N/A	N/A	36 4	1875 ug/l
Total Iron	SW846	717	N/A	2,110	N/A	727	N/A	N/A	BDL	3600 ug/l
Total Manganese	SW846	218	N/A	455	N/A	88	N/A	N/A	BDL	3750 ug/l
Mercury	EPA 7470A	N/A	N/A	BDL	N/A	BDL	N/A	N/A	BDL	0 045 ug/l
Total Cyanide (mg/l)	EPA 9010	N/A	N/A	BDL	N/A	BDL	N/A	N/A	BDL	-
Chromium (+6) - (mg/l)	SW846 7196	< 025	N/A	< 025	N/A	< 025	N/A	N/A	< 025	23 2 ug/l

NOTES

1 - All concentrations are in ug/l unless otherwise noted
N/A - indicates compound was not analyzed for
BDL - Below Detection Limits

Foster Wheeler Environmental Corporation
NAWC, Warminster Groundwater Pump and Treatment Plant
Operator Schedule for July, 1999

Thursday, July 1, 1999
Monday, July 5, 1999
Thursday, July 8, 1999
Monday, July 12, 1999
Thursday, July 15, 1999
Monday, July 19, 1999
Thursday, July 22, 1999
Monday, July 26, 1999
Thursday, July 29, 1999

CHEMTECH 110 Route 4 • Englewood, New Jersey 07631 Phone: (201) 567-6868 Fax: (201) 567-1333

DATA PACKAGE FOR VOLATILE ORGANICS, METALS & GENERAL CHEMISTRY

NAWC WARMINSTER
1284.B018.0209.00000

A FULL SERVICE ENVIRONMENTAL LABORATORY

FOSTER WHEELER ENVIROMENTAL
2300 LINCOLN HIGHWAY EAST
LANGHORNE PA 19047
215-702-4074

CHEMTECH PROJECT # **11807NJ**
ATTENTION **DAVE DICESARE**

Since 1967

CHEMTECH

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CHEMTECH CONSULTING GROUP

COVER PAGE

CHEMTECH

COVER PAGE

Lab Name: Chemtech Consulting Group Client: FOSTER WHEELER ENVIRO CORP.
Lab Code: CHEM Project No.: 11807NJ Project Name: NAWC WARMINSTER

Client Sample No.	Lab Sample ID
DO-0018-06-001	73318
DO-0018-06-002	73319
DO-0018-06-003	73320
DO-0018-06-004	73321
DO-0018-06-005	73322
DO-0018-06-006	73323
DO-0018-06-007	73324
DO-0018-06-008	73325
DO-0018-06-FIELD BLANK	73326
DO-0018-06-002-F	73327
DO-0018-06-004-F	73328
DO-0018-06-007-F	73329
DO-0018-06-008-F	73330

I certify that the 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 hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: _____ Name: DIVYAJIT MEHTA

Date: 6/14/99 Title: LAB DIRECTOR

CHEMTECH CONSULTING GROUP

CHAIN OF CUSTODY RECORD

Please check one:

CHEMTECH

CHAIN OF CUSTODY RECORD

North Jersey ☒
110 Route 4
Englewood, NJ 07631
(201) 567-6868 Fax (201) 567-1333

South Jersey ☐
515 Route 9 South
Barnegat, NJ 08005
(609) 698-0199 Fax (609) 698-0910

CHEMTECH JOB NO :

CHEMTECH QUOTE NO.: 11807NJ

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Foster Wheeler Environmental Corp.

ADDRESS: 2300 Lincoln Highway EAST

CITY: Langhorne STATE: PA ZIP: 19047

ATTENTION: DAVE DiCESARE

PHONE: 215-702-4094 FAX: 215-702-4092

PROJECT INFORMATION

PROJECT NAME: NAWC Warminster

PROJECT NO.: 1284.B018.0209.00000

PROJECT MANAGER: Jim IREY

LOCATION: Langhorne, PA

PHONE: FAX:

BILLING INFORMATION

BILL TO: Foster Wheeler Environmental Corp. PO #:

ADDRESS: 2300 Lincoln Highway EAST, one oxford Valley, Suite 200

CITY: Langhorne STATE: PA ZIP: 19047

ATTENTION: Rita Lee PHONE: 215-702-4088

DATA TURNAROUND INFORMATION

☐ 21 DAYS
☐ 14 DAYS
☒ 7 DAYS
☐ OTHER

APPROVED BY. (CHEMTECH'S PERSONNEL)

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED

DATA DELIVERABLE INFORMATION

☐ NJ REDUCED ☐ CHEMTECH FORMAT
☐ NJ CLP ☐ RESULTS ONLY
☐ USEPA CLP ☐ DISKETTES
☐ NYS CLP ☐ NYS ASP
☐ OTHER

ANALYSIS

1 pH, 2 TSS, 3 TOC, 4 CN, 5 Cr+6, 6 Metals, 7 TCL-VOA, 8 Dissolved FE*, 9

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								/	/	C	D	/	B	A	/		← Specify Preservatives A – HCl, B – HNO_3, C – H_2SO_4, D – NaOH, E – ICE, F – Other
1. 73318	DO-0018-06-001	H_2O		X	5/19/99	1359	4	1	1					2			
2. 73319	DO-0018-06-002			X		1353	9	1	1	1	1	1	1	2	1		
3. 73320	DO-0018-06-003			X		1348	1		1								
4. 73321	DO-0018-06-004			X		1343	6	1	1		1	1	1		1		
5. 73322	DO-0018-06-005			X		1340	2							2			
6. 73323	DO-0018-06-006			X		1335	3			1				2			
7. 73324	DO-0018-06-007		X	X		1323	9	1	1	1	1	1	1	2	1		
8. 73325	DO-0018-06-008			X		1405	9	1	1	1	1	1	1	2	1		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. [signature]	5/19/99	1. [signature]
RELINQUISHED BY 2. [signature]	DATE/TIME:	RECEIVED BY 2. [signature]
RELINQUISHED BY 3.	DATE/TIME 5/21/99	RECEIVED FOR LAB BY 3. [signature]

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler 4°C

Comments: * Dissolved Iron - Filter + Preserve on arrival.

Page____ of____ Shipment Complete: Yes ____ No ____

Ver. 3-99 WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

№ 024676

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Acidity	Cool 4°C	14 Days
Alkalinity	Cool 4°C	14 Days
Ammonia	Cool 4°C H_2SO_4 <2	28 Days
Biochemical Oxygen Demand	Cool 4°C	48 Hours
Bromide	None Required	28 Days
Biochemical Oxygen Demand (Carbonaceous)	Cool 4°C	48 Hours
Chemical Oxygen Demand	Cool 4°C H_2SO_4 <2	28 Days
Chloride	None Required	28 Days
Chlorine (Total Residual)	None Required	Analyze Immediately
Color	Cool 4°C	48 Hours
Cyanide (Total & Amenable)	NaOH to pH12 6g Ascorbic Acid	14 Days
Fluoride	None Required	28 Days
Hardness	HNO_3 <2 or H_2SO_4 <2	6 Months
Hydrogen Ion (pH)	None Required	Analyze Immediately
Kjeldahl and Organic Nitrogen	Cool 4°C H_2SO_4 <2	28 Days
Chromium VI	Cool 4°C	24 Hours
Mercury	HNO_3 <2	28 Days
Metals (Except Chromium VI & Hg)	HNO_3 <2	6 Months
Nitrate	Cool 4°C	48 Hours
Nitrate-Nitrite	Cool 4°C H_2SO_4 <2	28 Days
Nitrite	Cool 4°C	48 Hours
Oil & Grease/TPH	Cool 4°C H_2SO_4 <2	28 Days/14
Organic Carbon	Cool 4°C HCl or H_2SO_4 <2	28 Days

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Orthophosphate	Filter Immed Cool 4°C	48 Hours
Oxygen, Dissolved Probe	None Required	Analyze Immediately
Winkler D.O	Fix on Site Store in Dark	8 Hours
Phenols	Cool 4°C H_2SO_4 <2	28 Days
Phosphorus (Elemental)	Cool 4°C	48 Hours
Phosphorus (Total)	Cool 4°C H_2SO_4 <2	28 Days
Residue (Total)	Cool 4°C	7 Days
Residue (Filterable)	Coo 4°C	7 Days
Residue (Non-Filterable)	Cool 4°C	7 Days
Residue (Settleable)	Cool 4°C	48 Hours
Residue (Volatile)	Cool 4°C	7 Days
Silica	Cool 4°C	28 Days
Specific Conductance	Cool 4°C	28 Days
Sulfate	Cool 4°C	28 Days
Sulfide	ZnAc Plus NaOH 9:	7 Days
Sulfite	None Required	Analyze Immediately
Surfactants	Cool 4°C	48 Hours
Temperature	None Required	Analyze Immediately
Turbidity	Cool 4°C	48 Hours
Purgeable Halocarbons	.008% $NA_2S_2O_3$	14 Days
Purgeable Aromatic Hydrocarbons	.008% $NA_2S_2O_3$ HCl <2	14 Days
Acrolein & Acrylonitrile	.008% $NA_2S_2O_3$ pH 4.5	14 Days
Phenols	.008% $NA_2S_2O_3$ 4°C	7 days until ex 40 days after ex

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Benzidines	.008% $NA_2S_2O_3$ 4°C	7 days until ex. 40 days after ex
Phthalate Esters	Cool 4°C	7 days until ex. 40 days after ex
Nitrosamines	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex. 40 days after ex
PCB's	Cool 4°C	7 days until ex 40 days after ex
Nitroaromatics & Isophorone	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex 40 days after ex
Polynuclear Aromatic Hydrocarbons	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex. 40 days after ex
Haloethers	.008% $NA_2S_2O_3$ 4°C	7 days until ex 40 days after ex
Chlorinated Hydrocarbons	Cool 4°C	7 days until ex 40 days after ex
Chlorinated Herbicides	Cool 4°C	7 days until ex. 40 days after ex
Dioxins & Furans (T C D D)	.008% NA_2S_2O	7 days until ex 40 days after ex
TOX Total Organic Halogens	H_2SO4 <2 Cool 4°C	7 days until ex. 40 days after ex
Pesticides, Chlorinated	Cool 4°C pH 5.9	7 days until ex. 40 days after ex
Radiological Test Gross Alpha	HNO_3 to <2	6 Months
Beta	HNO_3 <2	6 Months
Radium (Total)	HNO_3 <2	6 Months
Coliform, Fecal & Total	.008% $NA_2S_2O_3$ 4°C	6 Hours
Fecal Streptococci	.008% $NA_2S_2O_3$ 4°C	6 Hours
Nonhalogenated Volatile Organics	4°C	14 Days
Volatile Organics	4°C	14 Days
Semi-volatile Organics	4°C	7 days until ex 40 days after ex
TCLP Sample	None	7 days until ex. 40 days after ex
TCLP Extraction	None	7 days until ex 40 days after ex
Hazardous Waste Characterization	None	14 Days

Please check one:

CHEMTECH

CHAIN OF CUSTODY RECORD

North Jersey ☐
110 Route 4
Englewood, NJ 07631
(201) 567-6868 Fax (201) 567-1333

South Jersey ☐
515 Route 9 South
Barnegat, NJ 08005
(609) 698-0199 Fax (609) 698-0910

CHEMTECH JOB NO.:

CHEMTECH QUOTE NO.: 11807NJ

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Foster Wheeler Environmental Corp.

ADDRESS: 2300 Lincoln Highway East

CITY: Langhorne STATE: PA ZIP: 19047

ATTENTION: Dave DiCesare

PHONE: 215-702-4074 FAX: 215-702-4092

PROJECT INFORMATION

PROJECT NAME: NAWC Warminster

PROJECT NO.: 1284.B018.0209.00000

PROJECT MANAGER: Jim IREY

LOCATION: Langhorne, PA

PHONE: FAX:

BILLING INFORMATION

Foster Wheeler

BILL TO: Environmental Corp. PO #:

2300 Lincoln Highway East

ADDRESS: One Oxford Valley Suite 200

CITY: Langhorne STATE: PA ZIP: 19047

ATTENTION: Rita Lee PHONE: 215-702-4088

DATA TURNAROUND INFORMATION

☐ 21 DAYS _____ APPROVED BY (CHEMTECH'S PERSONNEL)
☐ 14 DAYS _____ _____
☐ 7 DAYS _____ _____
☐ OTHER _____ _____

21 DAY TURNAROUND HARDCOPY, EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED.

DATA DELIVERABLE INFORMATION

☐ NJ REDUCED ☐ CHEMTECH FORMAT
☐ NJ CLP ☐ RESULTS ONLY
☐ USEPA CLP ☐ DISKETTES
☐ NYS CLP ☐ NYS ASP
☐ OTHER _____

ANALYSIS

1	2	3	4	5	6	7	8	9
pH	TSS	TOC	Cr	Cr +6	Metals	TCL-VOA	Dissolved Fe*	

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								/	/	C	D	/	B	A	/		← Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1. 73326	D0-0018-06 - Field Blank	H_2O		X	5/19/99	~~1405~~ 1312	9	1	1	1	1	1	1	2	1		
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	

600000

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME	RECEIVED BY
1. [signature]	5/19/99	1. [signature]
RELINQUISHED BY: 2. [signature]	DATE/TIME	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME: 5/21/99	RECEIVED FOR LAB BY 3. [signature]

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant ☐ Temp. of Cooler 4°C

Comments:

* Dissolved Fe - please filter + preserve on arrival.

Page _____ of _____ Shipment Complete: Yes _____ No _____

Ver. 3-99 WHITE – CHEMTECH COPY FOR RETURN TO CLIENT YELLOW – CHEMTECH COPY PINK – SAMPLER COPY

№ 024677

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Acidity	Cool 4°C	14 Days
Alkalinity	Cool 4°C	14 Days
Ammonia	Cool 4°C H_2SO_4 <2	28 Days
Biochemical Oxygen Demand	Cool 4°C	48 Hours
Bromide	None Required	28 Days
Biochemical Oxygen Demand (Carbonaceous)	Cool 4°C	48 Hours
Chemical Oxygen Demand	Cool 4°C H_2SO_4 <2	28 Days
Chloride	None Required	28 Days
Chlorine (Total Residual)	None Required	Analyze Immediately
Color	Cool 4°C	48 Hours
Cyanide (Total & Amenable)	NaOH to pH12 6g Ascorbic Acid	14 Days
Fluoride	None Required	28 Days
Hardness	HNO_3 <2 or H_2SO_4 <2	6 Months
Hydrogen Ion (pH)	None Required	Analyze Immediately
Kjeldahl and Organic Nitrogen	Cool 4°C H_2SO_4 <2	28 Days
Chromium VI	Cool 4°C	24 Hours
Mercury	HNO_3 <2	28 Days
Metals (Except Chromium VI & Hg)	HNO_3 <2	6 Months
Nitrate	Cool 4°C	48 Hours
Nitrate-Nitrite	Cool 4°C H_2SO_4 <2	28 Days
Nitrite	Cool 4°C	48 Hours
Oil & Grease/TPH	Cool 4°C H_2SO_4 <2	28 Days/14
Organic Carbon	Cool 4°C HCl or H_2SO_4 <2	28 Days

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Orthophosphate	Filter Immed Cool 4°C	48 Hours
Oxygen Dissolved Probe	None Required	Analyze Immediately
Winkler D O	Fix on Site Store in Dark	8 Hours
Phenols	Cool 4°C H_2SO_4 <2	28 Days
Phosphorus (Elemental)	Cool 4°C	48 Hours
Phosphorus (Total)	Cool 4°C H_2SO_4 <2	28 Days
Residue (Total)	Cool 4°C	7 Days
Residue (Filterable)	Cool 4°C	7 Days
Residue (Non-Filterable)	Cool 4°C	7 Days
Residue (Settleable)	Cool 4°C	48 Hours
Residue (Volatile)	Cool 4°C	7 Days
Silica	Cool 4°C	28 Days
Specific Conductance	Cool 4°C	28 Days
Sulfate	Cool 4°C	28 Days
Sulfide	ZnAc Plus NaOH 9	7 Days
Sulfite	None Required	Analyze Immediately
Surfactants	Cool 4°C	48 Hours
Temperature	None Required	Analyze Immediately
Turbidity	Cool 4°C	48 Hours
Purgeable Halocarbons	.008% $NA_2S_2O_3$	14 Days
Purgeable Aromatic Hydrocarbons	.008% $NA_2S_2O_3$ HCl <2	14 Days
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Phenols	.008% $NA_2S_2O_3$ 4°C	7 days until ex 40 days after ex

DESCRIPTION (Parameters)	PRESER-VATIVE Liquid	HOLDING TIME
Benzidines	.008% $NA_2S_2O_3$ 4°C	7 days until ex. 40 days after ex
Phthalate Esters	Cool 4°C	7 days until ex. 40 days after ex
Nitrosamines	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex. 40 days after ex
PCB's	Cool 4°C	7 days until ex 40 days after ex
Nitroaromatics & Isophorone	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex 40 days after ex
Polynuclear Aromatic Hydrocarbons	.008% $NA_2S_2O_3$ Store in Dark	7 days until ex. 40 days after ex
Haloethers	.008% NA_2S_2O 4°C	7 days until ex 40 days after ex
Chlorinated Hydrocarbons	Cool 4°C	7 days until ex 40 days after ex
Chlorinated Herbicides	Cool 4°C	7 days until ex 40 days after ex
Dioxins & Furans (T C D D)	.008% $NA_2S_2O_3$	7 days until ex 40 days after ex
TOX Total Organic Halogens	H_2SO4 <2 Cool 4°C	7 days until ex. 40 days after ex
Pesticides, Chlorinated	Cool 4°C pH 5 9	7 days until ex 40 days after ex
Radiological Test Gross Alpha	HNO_3 to <2	6 Months
Beta	HNO_3 <2	6 Months
Radium (Total)	HNO_3 <2	6 Months
Coliform, Fecal & Total	.008% $NA_2S_2O_3$ 4°C	6 Hours
Fecal Streptococci	.008% $NA_2S_2O_3$ 4°C	6 Hours
Nonhalogenated Volatile Organics	4°C	14 Days
Volatile Organics	4°C	14 Days
Semi-volatile Organics	4°C	7 days until ex 40 days after ex
TCLP Sample	None	7 days until ex. 40 days after ex
TCLP Extraction	None	7 days until ex 40 days after ex
Hazardous Waste Characterization	None	14 Days

CHEMTECH CONSULTING GROUP

METHODOLOGY REVIEW

CHEMTECH

METHODOLOGY SUMMARY
PROJECT # 11807NJ

VOLATILE ORGANICS
The analysis of Volatile Organics was based on Method 8260B.

METALS
The analysis of Metals is based Method 6010, except for Mercury which is based on SW 846 Method # 7470.

CYANIDE
The analysis of Cyanide is based on Method # 9010.

pH
The analysis of pH is based on Method # 150.1.

HEXAVALENT CHROMIUM
The analysis of Hexavalent Chromium is based on Method # 7196A.

TOTAL SUSPENDED SOLIDS
The analysis of Total Suspended Solids is based on Method # 160.2.

TOTAL ORGANIC CARBON
The analysis of Total Organic Carbon is based on Method # 415.1.

TOTAL SUSPENDED SOLIDS
The analysis of Total Suspended Solids is based on Method # 160.2.

CHEMTECH CONSULTING GROUP

LABORATORY CHRONICLE

000008

CHEMTECH

LABORATORY CHRONICLE
PROJECT #11807NJ

ANALYSIS	COLLECTED	DIGESTED/ EXTRACTED	ANALYZED	ANALYST	SAMPLE CONDITION
Volatile Organics	05/19/99	NA	05/24/99 05/25/99	VP	Intact Cool (4oC)
Total Metals	05/19/99	05/24/99	05/28/99	SJ/ST	Intact Cool (4oC)
Mercury	05/19/99	04/24/99	04/24/99	NP/VP	Intact Cool (4oC)
Total Cyanide	05/19/99	05/24/99	05/24/99	BP	Intact Cool (4oC)
pH	05/19/99	NA	05/21/99	HSP	Intact Cool (4oC)
TSS	05/19/99	NA	05/24/99	HSP	Intact Cool (4oC)
Chromium Hexavalent	05/19/99	NA	05/21/99	BP	Intact Cool (4oC)
TOC	05/19/99	NA	05/28/99	SPS	Intact Cool (4oC)

CHEMTECH CONSULTING GROUP

CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH
CONSULTING GROUP, INC

Volatiles

GC/MS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 11807N5

	NO	YES
1. Chromatograms Labeled/Compounds Identified		✓
2. Tune Specifications		
a. BFB Meets Criteria		✓
b. DFTPP Meets Criteria		
3. Tuning Frequency Performed every 24 hrs for 600 series & 12 hrs for 8000 series		✓
4. Calibration Frequency Initial calibration performed within 30 days before sample analysis & cont. calibration percformed within 24 hrs of sample analysis for 600 series & 12 hours for 8000 series		✓
5. Calibration Requirements		
a. Calibration Check Compounds (CCCs)		✓
b. System Performance Check Compounds (SPCCs)		
6. Blank Contamination If yes,list compounds & concentrations in each blank:	✓	
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
7. Surrogate Recoveries Meet Criteria If not met, list compounds & their recoveries which fall outside acceptable range:		✓
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list compounds & their recoveries which fall outside acceptable range:		✓
a. VOA Fraction		
b. B/N Fraction		
c. Acid Fraction		
9. Internal Standard Areas & Retention Time Shifts Meet Criteria Internal standard areas between -50% & +100% of daily standard		✓
10. Extraction Holding Time Met If not met, list number of days exceeded for each sample:		N.A
11. Analysis Holding time Met If not met, list number of days exceeded for each sample:		✓

Laboratory Supervisor: Elisa Ramani Date: 6/3/99

New Jersey Lab ID#: 02548 New York Lab ID#: 10624

CHEMTECH CONSULTING GROUP, INC

METALS ANALYSIS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 11807N5

	NO	YES
1. Calibration Summaries Meet Criteria		✓
2. ICP Interference Check Sample (ICS) Results Summary Submitted Meets Criteria (if applicable)		✓
3. Serial Dilution Summary Submitted Meets Criteria (if applicable)		✓
4. Laboratory Control Sample (LCS) Summary Submitted Meets Criteria (if applicable)		✓
5. Blank Contamination If yes, list compounds & concentrations in each blank:	✓	
6. Matrix Spike Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range:		✓
7. Sample Duplicate Analysis Meet QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range:		✓
8. Digestion and Analysis Holding Time Met If not met, list compounds and number of days exceeded for each sample:		✓

Laboratory Supervisor: [illegible] Date: 6/3/99

000012

New Jersey Lab ID#: 02548 New York Lab ID#: 10624

CHEMTECH
CONSULTING GROUP, INC

GENERAL CHEMISTRY
CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 11807N5

	NO	YES
1. Blank Contamination	✓	
If yes, list compounds and concentrations in each blank:		
2. Matrix Spike Recoveries Meet Criteria		✓
If not met, list those compounds & their recoveries which fall outside the acceptable range:		
3. Sample Duplicate Analysis Meet QC Criteria		✓
If not met, list those compounds & their recoveries which fall outside the acceptable range:		
4. Analysis Holding Time Met		✓
If not met, list analyses and number of days exceeded for each sample:		

Laboratory Supervisor: Pluria Romani Date: 6/3/89

New Jersey Lab ID#: 02548 New York Lab ID#: 10624

CHEMTECH

DATA REPORTING QUALIFIERS - ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, ie "10 U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed).

(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3 J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12 B".

E - Indicates the analyte's's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

P - This flag is used for a Pesticide/Aroclor target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N - This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

CHEMTECH

DATA REPORTING QUALIFIERS - - INORGANIC

For reporting results, the following "Results Qualifiers" are used:

B - If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).

U - If the analyte was analyzed for, but not detected.

E - The reported value is estimated because of the presence of interference.

M - Duplicate injection precision not met.

N - Spiked sample recovery not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

W - Post-digestion spike for Furnace AA analysis is out of control limits (85 - 115%), while sample absorbance is less than 50% of spike absorbance.

* - Duplicate analysis not within control limits.

\+ - Correlation coefficient for the MSA is less than 0.995.

*** - Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

M (Method) qualifier

"P" for ICP
"A" for Flame AA
"F" for Furnace AA
"PM" for ICP when Microwave Digestion is used
"AM" for flame AA when Microwave Digestion is used
"FM" for furnace AA when Microwave Digestion is used
"CV" for Manual Cold Vapor AA
"AV" for automated Cold Vapor AA
"CA" for Midi-Distillation Spectrophotometric
"AS" for Semi-Automated Spectrophotometric
"C" for Manual Spectrophotometric
"T" for Titrimetric
"NR" if the analyte is not required to be analyzed

CHEMTECH CONSULTING GROUP

RESULTS SUMMARY

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000017

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	18	
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: _____ Location: NAWC WARMINIS Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73318
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-001
TIME SAMPLED- 1359 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
pH	EPA 150.1	05/21/99		HSP	6.65	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	4.00	mg/L

LABORATORY DIRECTOR _____

000021

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone. (609) 698-0199 Fax: (609) 698-0910

NYSDOH Certification No 10624
NJDEP Certification No. 02548

NJDEP Certification No 15004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	180	U
74-87-3	Chloromethane	180	U
75-01-4	Vinyl Chloride	130	U
74-83-9	Bromomethane	170	U
75-00-3	Chloroethane	200	U
107-02-8	Acrolein	500	U
75-69-4	Trichlorofluoromethane	130	U
75-35-4	1,1-Dichloroethene	57	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	500	U
75-09-2	Methylene Chloride	73	U
156-60-5	trans-1,2-Dichloroethene	68	U
107-13-1	Acrylonitrile	500	U
75-34-4	1,1-Dichloroethane	37	U
590-20-7	2,2-Dichloropropane	100	U
156-60-5	cis-1,2-dichloroethene	84	U
74-97-5	Bromochloromethane	87	U
67-66-3	Chloroform	84	U
71-55-6	1,1,1-Trichloroethane	86	U
108-05-4	Vinyl Acetate	500	U
78-93-3	2-Butanone	500	U
56-23-5	Carbon Tetrachloride	360	
563-58-6	1,1-Dichloropropene	73	U
71-43-2	Benzene	85	U
107-06-2	1,2-Dichloroethane	90	U
79-01-6	Trichloroethene	18000	
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	88	U
75-27-4	Bromodichloromethane	60	U
110-07-3	2-Chloroethyl Vinyl Ether	500	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	23	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	90	U
108-10-1	4-Methyl-2-Pentanone	500	U
127-18-4	Tetrachloroethene	90	U
142-28-9	1,3-Dichloropropane	90	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	120	U
591-78-6	2-Hexanone	500	U
108-90-7	Chlorobenzene	90	U
630-20-6	1,1,1,2-Tetrachloroethane	90	U
100-41-4	Ethylbenzene	90	U
1330-20-7	m&p-xylenes	130	U
95-47-6	o-xylene	90	U
100-42-5	Styrene	45	U
75-25-2	Bromoform	50	U
98-82-8	isopropylbenzene	100	U
108-86-1	Bromobenzene	70	U
79-34-5	1,1,2,2-Tetrachloroethane	110	U
96-18-4	1,2,3-Trichloropropane	110	U
103-65-1	n-Propylbenzene	90	U
95-49-8	2-Chlorotoluene	100	U
106-43-4	4-Chlorotoluene	90	U
108-67-8	1,3,5-Trimethylbenzene	110	U
98-06-6	tert-Butylbenzene	70	U
95-63-6	1,2,4-Trimethylbenzene	110	U
135-98-8	sec-Butylbenzene	60	U
541-73-1	1,3-Dichlorobenzene	95	U
99-87-6	4-Isopropyltoluene	50	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	80	U
104-51-8	n-Butylbenzene	120	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	80	U
87-68-3	Hexachlorobutadiene	100	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	80	U
87-61-6	1,2,3-Trichlorobenzene	70	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-002

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73319S

Level (low/med): LOW Date Received: 05/21/99

% 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	590			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	22.6	B		P
7439-89-6	Iron	2110			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	455			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	83.0			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73319
DATE SAMPLED- 05/19/99

SAMPLE ID- DO-0018-06-002
TIME SAMPLED- 1353 SAMPLER- CLIENT

DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.75	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	115	mg/L

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone. (609) 698-0199 Fax. (609) 698-0910

NYSDOH Certification No 10624
NJDEP Certification No. 02548

NJDEP Certification No 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73320
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-003
TIME SAMPLED- 1348 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	20.0	mg/L

LABORATORY DIRECTOR _____

000028

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone (609) 698-0199 Fax (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-004

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73321S

Level (low/med): LOW Date Received: 05/21/99

% 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	572			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	13.8	B		P
7439-89-6	Iron	727			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	88.0			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	52.2			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807NJ

SAMPLE NUMBER- 73321
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-004
TIME SAMPLED- 1343 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.75	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	16.0	mg/L

LABORATORY DIRECTOR _____

000030

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone. (609) 698-0199 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	160	
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	2.3	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73323
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-006
TIME SAMPLED- 1335 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L

LABORATORY DIRECTOR _____

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 698-0199 Fax: (609) 698-0910

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NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No 15004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	3.2	
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-007

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73324S

Level (low/med): LOW Date Received: 05/21/99

% 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	36.4	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	9.3	B		P
7439-89-6	Iron	20.0	U		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	28.4			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73324
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-007
TIME SAMPLED- 1323 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.85	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	2.00	mg/L

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110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 698-0199 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No 02548

NJDEP Certification No 15004

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	2.1	
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	4.6	
75-35-4	1,1-Dichloroethene	30	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	16	
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	48	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	250	E
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	3700	E
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	37	
107-06-2	1,2-Dichloroethane	9.6	
79-01-6	Trichloroethene	20200	E
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	370	E
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	240	E
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	390	E
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	66	
1330-20-7	m&p-xylenes	220	
95-47-6	o-xylene	96	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	16	
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	16	
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	6.1	
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	4.2	
87-61-6	1,2,3-Trichlorobenzene	0.7	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	9200	UD
74-87-3	Chloromethane	9200	UD
75-01-4	Vinyl Chloride	6500	UD
74-83-9	Bromomethane	8300	UD
75-00-3	Chloroethane	10100	UD
107-02-8	Acrolein	25000	UD
75-69-4	Trichlorofluoromethane	6300	UD
75-35-4	1,1-Dichloroethene	2900	UD
67-64-1	Acetone	25000	UD
75-15-0	Carbon Disulfide	25000	UD
75-09-2	Methylene Chloride	3700	UD
156-60-5	trans-1,2-Dichloroethene	3400	UD
107-13-1	Acrylonitrile	25000	UD
75-34-4	1,1-Dichloroethane	1900	UD
590-20-7	2,2-Dichloropropane	5000	UD
156-60-5	cis-1,2-dichloroethene	4200	UD
74-97-5	Bromochloromethane	4400	UD
67-66-3	Chloroform	4200	UD
71-55-6	1,1,1-Trichloroethane	4300	UD
108-05-4	Vinyl Acetate	25000	UD
78-93-3	2-Butanone	25000	UD
56-23-5	Carbon Tetrachloride	9000	D
563-58-6	1,1-Dichloropropene	3700	UD
71-43-2	Benzene	4300	UD
107-06-2	1,2-Dichloroethane	4500	UD
79-01-6	Trichloroethene	722300	D
78-87-5	1,2-Dichloropropane	5000	UD
74-95-3	Dibromomethane	4400	UD
75-27-4	Bromodichloromethane	3000	UD
110-07-3	2-Chloroethyl Vinyl Ether	25000	UD
10061-01-5	cis-1,3-Dichloropropene	650	UD
108-88-3	Toluene	5000	UD
10061-02-6	trans-1,3-Dichloropropene	1200	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	4500	UD
108-10-1	4-Methyl-2-Pentanone	25000	UD
127-18-4	Tetrachloroethene	4500	UD
142-28-9	1,3-Dichloropropane	4500	UD
124-48-1	Dibromochloromethane	5000	UD
106-93-4	1,2-Dibromoethane	6000	UD
591-78-6	2-Hexanone	25000	UD
108-90-7	Chlorobenzene	4500	UD
630-20-6	1,1,1,2-Tetrachloroethane	4500	UD
100-41-4	Ethylbenzene	4500	UD
1330-20-7	m&p-xylenes	6500	UD
95-47-6	o-xylene	4500	UD
100-42-5	Styrene	2300	UD
75-25-2	Bromoform	2500	UD
98-82-8	isopropylbenzene	5000	UD
108-86-1	Bromobenzene	3500	UD
79-34-5	1,1,2,2-Tetrachloroethane	5500	UD
96-18-4	1,2,3-Trichloropropane	5500	UD
103-65-1	n-Propylbenzene	4500	UD
95-49-8	2-Chlorotoluene	5000	UD
106-43-4	4-Chlorotoluene	4500	UD
108-67-8	1,3,5-Trimethylbenzene	5500	UD
98-06-6	tert-Butylbenzene	3500	UD
95-63-6	1,2,4-Trimethylbenzene	5500	UD
135-98-8	sec-Butylbenzene	3000	UD
541-73-1	1,3-Dichlorobenzene	4800	UD
99-87-6	4-Isopropyltoluene	2500	UD
106-46-7	1,4-Dichlorobenzene	5000	UD
95-50-1	1,2-Dichlorobenzene	4000	UD
104-51-8	n-Butylbenzene	6000	UD
96-12-8	1,2-Dibromo-3-chloropropane	7000	UD
120-82-1	1,2,4-Trichlorobenzene	4000	UD
87-68-3	Hexachlorobutadiene	5000	UD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	4000	UD
87-61-6	1,2,3-Trichlorobenzene	3500	UD

000052

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-008-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73325S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	330			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: DISSOLVED METALS

000053

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73325
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-008
TIME SAMPLED- 1405 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.80	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	12.0	mg/L

000054

110 Route 4
Englewood, New Jersey 07631
Phone: (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 698-0199 Fax (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000055

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000056

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000057

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-FIELD BLANK

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73326S

Level (low/med): LOW Date Received: 05/21/99

% 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	21.4	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	20.0	U		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	1.4	B		P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000059

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73326
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-FIELD BLANK
TIME SAMPLED- 1312 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	7.40	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	7.00	mg/L

000060

110 Route 4
Englewood, New Jersey 07631
Phone. (201) 567-6868 Fax: (201) 567-1333

515 Route 9
Barnegat, New Jersey 08005
Phone: (609) 698-0199 Fax: (609) 698-0910

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-002-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73327S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1960			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000061

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-004-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73328S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	319			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000062

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-007-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73329S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000063

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-008

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73330S

Level (low/med): LOW Date Received: 05/21/99

% 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	255			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	12.5	B		P
7439-89-6	Iron	717			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	218			P
7439-97-6	Mercury				NR
7440-66-6	Zinc	17.1	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000064

I.

VOLATILE ORGANICS DATA

A.

ANALYTICAL RESULTS SUMMARY

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000067

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	18	
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000068

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000069

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: NAWC WARMINIS Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73318

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6651.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	180	U
74-87-3	Chloromethane	180	U
75-01-4	Vinyl Chloride	130	U
74-83-9	Bromomethane	170	U
75-00-3	Chloroethane	200	U
107-02-8	Acrolein	500	U
75-69-4	Trichlorofluoromethane	130	U
75-35-4	1,1-Dichloroethene	57	U
67-64-1	Acetone	500	U
75-15-0	Carbon Disulfide	500	U
75-09-2	Methylene Chloride	73	U
156-60-5	trans-1,2-Dichloroethene	68	U
107-13-1	Acrylonitrile	500	U
75-34-4	1,1-Dichloroethane	37	U
590-20-7	2,2-Dichloropropane	100	U
156-60-5	cis-1,2-dichloroethene	84	U
74-97-5	Bromochloromethane	87	U
67-66-3	Chloroform	84	U
71-55-6	1,1,1-Trichloroethane	86	U
108-05-4	Vinyl Acetate	500	U
78-93-3	2-Butanone	500	U
56-23-5	Carbon Tetrachloride	360	
563-58-6	1,1-Dichloropropene	73	U
71-43-2	Benzene	85	U
107-06-2	1,2-Dichloroethane	90	U
79-01-6	Trichloroethene	18000	
78-87-5	1,2-Dichloropropane	100	U
74-95-3	Dibromomethane	88	U
75-27-4	Bromodichloromethane	60	U
110-07-3	2-Chloroethyl Vinyl Ether	500	U
10061-01-5	cis-1,3-Dichloropropene	13	U
108-88-3	Toluene	100	U
10061-02-6	trans-1,3-Dichloropropene	23	U

000071

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	90	U
108-10-1	4-Methyl-2-Pentanone	500	U
127-18-4	Tetrachloroethene	90	U
142-28-9	1,3-Dichloropropane	90	U
124-48-1	Dibromochloromethane	100	U
106-93-4	1,2-Dibromoethane	120	U
591-78-6	2-Hexanone	500	U
108-90-7	Chlorobenzene	90	U
630-20-6	1,1,1,2-Tetrachloroethane	90	U
100-41-4	Ethylbenzene	90	U
1330-20-7	m&p-xylenes	130	U
95-47-6	o-xylene	90	U
100-42-5	Styrene	45	U
75-25-2	Bromoform	50	U
98-82-8	isopropylbenzene	100	U
108-86-1	Bromobenzene	70	U
79-34-5	1,1,2,2-Tetrachloroethane	110	U
96-18-4	1,2,3-Trichloropropane	110	U
103-65-1	n-Propylbenzene	90	U
95-49-8	2-Chlorotoluene	100	U
106-43-4	4-Chlorotoluene	90	U
108-67-8	1,3,5-Trimethylbenzene	110	U
98-06-6	tert-Butylbenzene	70	U
95-63-6	1,2,4-Trimethylbenzene	110	U
135-98-8	sec-Butylbenzene	60	U
541-73-1	1,3-Dichlorobenzene	95	U
99-87-6	4-Isopropyltoluene	50	U
106-46-7	1,4-Dichlorobenzene	100	U
95-50-1	1,2-Dichlorobenzene	80	U
104-51-8	n-Butylbenzene	120	U
96-12-8	1,2-Dibromo-3-chloropropane	140	U
120-82-1	1,2,4-Trichlorobenzene	80	U
87-68-3	Hexachlorobutadiene	100	U

000072

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	80	U
87-61-6	1,2,3-Trichlorobenzene	70	U

000073

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73319

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6667.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 100.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

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

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	160	
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000075

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	2.3	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000076

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000077

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73322

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6666.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

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

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000079

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000080

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000081

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73323

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6654.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	3.2	
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000083

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000084

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000085

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73324

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6655.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	2.1	
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	4.6	
75-35-4	1,1-Dichloroethene	30	
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	16	
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	48	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	250	E
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	3700	E
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	37	
107-06-2	1,2-Dichloroethane	9.6	
79-01-6	Trichloroethene	20200	E
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	370	E
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000087

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	240	E
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	390	E
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	66	
1330-20-7	m&p-xylenes	220	
95-47-6	o-xylene	96	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	16	
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	16	
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	6.1	
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	11	
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000088

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	4.2	
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000089

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6656.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units:

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

CAS Number	Compound Name	RT	Est. Conc.	Q
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	9200	UD
74-87-3	Chloromethane	9200	UD
75-01-4	Vinyl Chloride	6500	UD
74-83-9	Bromomethane	8300	UD
75-00-3	Chloroethane	10100	UD
107-02-8	Acrolein	25000	UD
75-69-4	Trichlorofluoromethane	6300	UD
75-35-4	1,1-Dichloroethene	2900	UD
67-64-1	Acetone	25000	UD
75-15-0	Carbon Disulfide	25000	UD
75-09-2	Methylene Chloride	3700	UD
156-60-5	trans-1,2-Dichloroethene	3400	UD
107-13-1	Acrylonitrile	25000	UD
75-34-4	1,1-Dichloroethane	1900	UD
590-20-7	2,2-Dichloropropane	5000	UD
156-60-5	cis-1,2-dichloroethene	4200	UD
74-97-5	Bromochloromethane	4400	UD
67-66-3	Chloroform	4200	UD
71-55-6	1,1,1-Trichloroethane	4300	UD
108-05-4	Vinyl Acetate	25000	UD
78-93-3	2-Butanone	25000	UD
56-23-5	Carbon Tetrachloride	9000	D
563-58-6	1,1-Dichloropropene	3700	UD
71-43-2	Benzene	4300	UD
107-06-2	1,2-Dichloroethane	4500	UD
79-01-6	Trichloroethene	722300	D
78-87-5	1,2-Dichloropropane	5000	UD
74-95-3	Dibromomethane	4400	UD
75-27-4	Bromodichloromethane	3000	UD
110-07-3	2-Chloroethyl Vinyl Ether	25000	UD
10061-01-5	cis-1,3-Dichloropropene	650	UD
108-88-3	Toluene	5000	UD
10061-02-6	trans-1,3-Dichloropropene	1200	UD

000091

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
79-00-5	1,1,2-Trichloroethane	4500	UD
108-10-1	4-Methyl-2-Pentanone	25000	UD
127-18-4	Tetrachloroethene	4500	UD
142-28-9	1,3-Dichloropropane	4500	UD
124-48-1	Dibromochloromethane	5000	UD
106-93-4	1,2-Dibromoethane	6000	UD
591-78-6	2-Hexanone	25000	UD
108-90-7	Chlorobenzene	4500	UD
630-20-6	1,1,1,2-Tetrachloroethane	4500	UD
100-41-4	Ethylbenzene	4500	UD
1330-20-7	m&p-xylenes	6500	UD
95-47-6	o-xylene	4500	UD
100-42-5	Styrene	2300	UD
75-25-2	Bromoform	2500	UD
98-82-8	isopropylbenzene	5000	UD
108-86-1	Bromobenzene	3500	UD
79-34-5	1,1,2,2-Tetrachloroethane	5500	UD
96-18-4	1,2,3-Trichloropropane	5500	UD
103-65-1	n-Propylbenzene	4500	UD
95-49-8	2-Chlorotoluene	5000	UD
106-43-4	4-Chlorotoluene	4500	UD
108-67-8	1,3,5-Trimethylbenzene	5500	UD
98-06-6	tert-Butylbenzene	3500	UD
95-63-6	1,2,4-Trimethylbenzene	5500	UD
135-98-8	sec-Butylbenzene	3000	UD
541-73-1	1,3-Dichlorobenzene	4800	UD
99-87-6	4-Isopropyltoluene	2500	UD
106-46-7	1,4-Dichlorobenzene	5000	UD
95-50-1	1,2-Dichlorobenzene	4000	UD
104-51-8	n-Butylbenzene	6000	UD
96-12-8	1,2-Dibromo-3-chloropropane	7000	UD
120-82-1	1,2,4-Trichlorobenzene	4000	UD
87-68-3	Hexachlorobutadiene	5000	UD

000092

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O73325DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6672.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/25/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 5000.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	4000	UD
87-61-6	1,2,3-Trichlorobenzene	3500	UD

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) _____ Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

D0-0018-06-FIELD BLANK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-06-001

Matrix: (soil/water) WATER Lab Sample ID: O73326

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6650.D

Level: (low/med) Date Received: 5/21/99

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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B.

TUNING RESULTS SUMMARY

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-0

Lab File ID: V6592.D BFB Injection Date: 5/18/99

Instrument ID: VOA 1 BFB Injection Time: 1358

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.0
75	30.0 - 60.0% of mass 95	44.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	64.9
175	5.0 - 9.0% of mass 174	4.5 (7.0)1
176	Greater than 95% but less than 101% of mass 174	62.1 (95.7)1
177	5.0 - 9.0% of mass 176	4.6 (7.4)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	V6593.D	5/18/99	1430
02	VSTD200	VSTD200	V6594.D	5/18/99	1514
03	VSTD100	VSTD100	V6595.D	5/18/99	1558
04	VSTD020	VSTD020	V6596.D	5/18/99	1642
05	VSTD005	VSTD005	V6597.D	5/18/99	1726
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0

Lab File ID: V6645.D BFB Injection Date: 5/24/99

Instrument ID: VOA 1 BFB Injection Time: 0810

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.1
75	30.0 - 60.0% of mass 95	40.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	66.1
175	5.0 - 9.0% of mass 174	5.3 (8.0)1
176	Greater than 95% but less than 101% of mass 174	65.2 (98.6)1
177	5.0 - 9.0% of mass 176	5.0 (7.7)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD0501	V6646.D	5/24/99	0842
02	VBLK01	VBLK01	V6647.D	5/24/99	0954
03	D0-0018-06-FIELD BLANK	O73326	V6650.D	5/24/99	1222
04	D0-0018-06-001	O73318	V6651.D	5/24/99	1307
05	D0-0018-06-006	O73323	V6654.D	5/24/99	1529
06	D0-0018-06-007	O73324	V6655.D	5/24/99	1614
07	D0-0018-06-008	O73325	V6656.D	5/24/99	1659
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-06-0

Lab File ID: V6660.D BFB Injection Date: 5/24/99

Instrument ID: VOA 1 BFB Injection Time: 2104

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.2
75	30.0 - 60.0% of mass 95	44.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.0 (7.1)1
176	Greater than 95% but less than 101% of mass 174	69.9 (99.7)1
177	5.0 - 9.0% of mass 176	4.6 (6.5)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD0502	V6661.D	5/24/99	2136
02	VBLK02	VBLK02	V6662.D	5/24/99	2247
03	D0-0018-06-005	O73322	V6666.D	5/25/99	0212
04	D0-0018-06-002	O73319	V6667.D	5/25/99	0258
05	D0-0018-06-008DL	O73325DL	V6672.D	5/25/99	0720
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C.

METHOD BLANK RESULTS SUMMARY

4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER

Project No.: 11807NJ Site: Location: Group: D0-0018-06

Lab File ID: V6647.D Lab Sample ID: VBLK01

Date Analyzed: 5/24/99 Time Analyzed: 0954

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	D0-0018-06-FIELD BLANK	O73326	V6650.D	1222
02	D0-0018-06-001	O73318	V6651.D	1307
03	D0-0018-06-006	O73323	V6654.D	1529
04	D0-0018-06-007	O73324	V6655.D	1614
05	D0-0018-06-008	O73325	V6656.D	1659
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COMMENTS:

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6647.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6647.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6647.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6647.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0 Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
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4A

VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER

Project No.: 11807NJ Site: Location: Group: D0-0018-06

Lab File ID: V6662.D Lab Sample ID: VBLK02

Date Analyzed: 5/24/99 Time Analyzed: 2247

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA 1

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	D0-0018-06-005	O73322	V6666.D	0212
02	D0-0018-06-002	O73319	V6667.D	0258
03	D0-0018-06-008DL	O73325DL	V6672.D	0720
04				
05				
06				
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COMMENTS:

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6662.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
75-71-8	Dichlorodifluoromethane	1.8	U
74-87-3	Chloromethane	1.8	U
75-01-4	Vinyl Chloride	1.3	U
74-83-9	Bromomethane	1.7	U
75-00-3	Chloroethane	2	U
107-02-8	Acrolein	5	U
75-69-4	Trichlorofluoromethane	1.3	U
75-35-4	1,1-Dichloroethene	0.6	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	0.7	U
156-60-5	trans-1,2-Dichloroethene	0.7	U
107-13-1	Acrylonitrile	5	U
75-34-4	1,1-Dichloroethane	0.4	U
590-20-7	2,2-Dichloropropane	1	U
156-60-5	cis-1,2-dichloroethene	0.8	U
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	0.8	U
71-55-6	1,1,1-Trichloroethane	0.9	U
108-05-4	Vinyl Acetate	5	U
78-93-3	2-Butanone	5	U
56-23-5	Carbon Tetrachloride	1.5	U
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	0.9	U
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	1	U
78-87-5	1,2-Dichloropropane	1	U
74-95-3	Dibromomethane	0.9	U
75-27-4	Bromodichloromethane	0.6	U
110-07-3	2-Chloroethyl Vinyl Ether	5	U
10061-01-5	cis-1,3-Dichloropropene	0.1	U
108-88-3	Toluene	1	U
10061-02-6	trans-1,3-Dichloropropene	0.2	U

000109

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6662.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
79-00-5	1,1,2-Trichloroethane	0.9	U
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	0.9	U
142-28-9	1,3-Dichloropropane	0.9	U
124-48-1	Dibromochloromethane	1	U
106-93-4	1,2-Dibromoethane	1.2	U
591-78-6	2-Hexanone	5	U
108-90-7	Chlorobenzene	0.9	U
630-20-6	1,1,1,2-Tetrachloroethane	0.9	U
100-41-4	Ethylbenzene	0.9	U
1330-20-7	m&p-xylenes	1.3	U
95-47-6	o-xylene	0.9	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	1	U
108-86-1	Bromobenzene	0.7	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	U
96-18-4	1,2,3-Trichloropropane	1.1	U
103-65-1	n-Propylbenzene	0.9	U
95-49-8	2-Chlorotoluene	1	U
106-43-4	4-Chlorotoluene	0.9	U
108-67-8	1,3,5-Trimethylbenzene	1.1	U
98-06-6	tert-Butylbenzene	0.7	U
95-63-6	1,2,4-Trimethylbenzene	1.1	U
135-98-8	sec-Butylbenzene	0.6	U
541-73-1	1,3-Dichlorobenzene	1	U
99-87-6	4-Isopropyltoluene	0.5	U
106-46-7	1,4-Dichlorobenzene	1	U
95-50-1	1,2-Dichlorobenzene	0.8	U
104-51-8	n-Butylbenzene	1.2	U
96-12-8	1,2-Dibromo-3-chloropropane	1.4	U
120-82-1	1,2,4-Trichlorobenzene	0.8	U
87-68-3	Hexachlorobutadiene	1	U

000110

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6662.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units: (ug/L or ug/Kg) ug/L

CAS No.	Compound		Q
91-20-3	Naphthalene	0.8	U
87-61-6	1,2,3-Trichlorobenzene	0.7	U

000111

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1180 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: VBLK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6662.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 5/24/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICs found: 0

Concentration Units: (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
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30.				

000112

D.

CALIBRATION SUMMARY

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-06

Instrument ID: VOA 1 Calibration Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Calibration Times: 1430 1726

GC Column RTX624 ID: 0.53 (mm)

Lab File ID: RRF005= V6597.D RRF20 = V6596.D
RRF50 = V6593.D RRF100 = V6595.D RRF200 = V6594.D

COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
Dichlorodifluoromethane	0.264	0.241	0.261	0.251	0.261	0.255	3.8	
Chloromethane *	0.154	0.161	0.169	0.178	0.171	0.167	5.6	*
Vinyl Chloride	0.166	0.159	0.177	0.166	0.174	0.168	4.2	
Bromomethane	0.103	0.089	0.078	0.076	0.080	0.085	13.4	
Chloroethane	0.090	0.066	0.066	0.068	0.067	0.072	14.7	
Acrolein	0.025	0.024	0.021	0.020	0.018	0.021	14.4	
Trichlorofluoromethane	0.335	0.263	0.254	0.237	0.238	0.266	15.2	
1,1-Dichloroethene	0.312	0.265	0.285	0.272	0.265	0.280	7.1	
Acetone	0.067	0.066	0.056	0.052	0.050	0.058	13.2	
Carbon Disulfide	0.686	0.573	0.622	0.597	0.610	0.618	6.9	
Methylene Chloride	0.284	0.225	0.222	0.220	0.221	0.235	11.9	
trans-1,2-Dichloroethene	0.358	0.304	0.327	0.314	0.327	0.326	6.2	
Acrylonitrile	0.065	0.070	0.061	0.058	0.055	0.062	9.4	
1,1-Dichloroethane *	0.517	0.452	0.487	0.462	0.477	0.479	5.2	*
2,2-Dichloropropane	0.428	0.370	0.391	0.379	0.393	0.392	5.6	
cis-1,2-dichloroethene	0.356	0.318	0.352	0.336	0.336	0.340	4.5	
Bromochloromethane	0.254	0.228	0.243	0.230	0.236	0.238	4.5	
Chloroform	0.496	0.426	0.450	0.435	0.443	0.450	6.1	
1,1,1-Trichloroethane	0.401	0.355	0.376	0.368	0.377	0.375	4.5	
Vinyl Acetate	0.477	0.460	0.471	0.454	0.469	0.466	1.9	
2-Butanone	0.096	0.110	0.099	0.095	0.087	0.097	8.7	
Carbon Tetrachloride	0.355	0.320	0.348	0.341	0.349	0.342	3.9	
1,1-Dichloropropene	0.421	0.354	0.372	0.366	0.370	0.377	6.9	
Benzene	1.049	0.888	0.923	0.899	0.897	0.931	7.2	
1,2-Dichloroethane	0.242	0.221	0.240	0.224	0.228	0.231	4.1	
Trichloroethene	0.426	0.363	0.370	0.367	0.359	0.377	7.3	
1,2-Dichloropropane	0.366	0.316	0.341	0.321	0.324	0.334	6.1	
Dibromomethane	0.225	0.215	0.214	0.214	0.204	0.214	3.6	
Bromodichloromethane	0.445	0.401	0.429	0.412	0.409	0.419	4.2	
2-Chloroethyl Vinyl Ether	0.159	0.181	0.191	0.181	0.179	0.178	6.6	
cis-1,3-Dichloropropene	0.544	0.476	0.490	0.479	0.478	0.494	5.9	
Toluene	1.285	1.088	1.091	1.067	1.033	1.113	8.9	
trans-1,3-Dichloropropene	0.450	0.405	0.406	0.398	0.391	0.410	5.6	
1,1,2-Trichloroethane	0.353	0.312	0.296	0.278	0.255	0.299	12.3	
4-Methyl-2-Pentanone	0.336	0.307	0.264	0.258	0.244	0.282	13.6	
Tetrachloroethene	0.485	0.381	0.374	0.381	0.356	0.395	12.9	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

000114

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-06

Instrument ID: VOA 1 Calibration Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Calibration Times: 1430 1726

GC Column RTX624 ID: 0.53 (mm)

Lab File ID: RRF005= V6597.D RRF20 = V6596.D
RRF50 = V6593.D RRF100 = V6595.D RRF200 = V6594.D

COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD	
1,3-Dichloropropane	0.649	0.558	0.545	0.538	0.521	0.562	9.0	
Dibromochloromethane	0.450	0.419	0.410	0.413	0.403	0.419	4.3	
1,2-Dibromoethane	0.453	0.413	0.387	0.388	0.374	0.403	7.7	
2-Hexanone	0.186	0.243	0.193	0.200	0.190	0.203	11.4	
Chlorobenzene *	1.019	0.827	0.822	0.812	0.798	0.856	10.8	*
1,1,1,2-Tetrachloroethane	0.418	0.358	0.355	0.347	0.333	0.362	8.9	
Ethylbenzene	1.726	1.401	1.374	1.361	1.277	1.428	12.1	
m&p-xylenes	0.651	0.533	0.516	0.511	0.480	0.538	12.2	
o-xylene	1.318	1.107	1.070	1.050	1.015	1.112	10.8	
Styrene	0.994	0.873	0.890	0.850	0.829	0.887	7.2	
Bromoform *	0.305	0.306	0.274	0.283	0.268	0.287	6.1	*
isopropylbenzene	3.742	2.916	2.997	2.916	2.870	3.088	11.9	
Bromobenzene	1.853	1.490	1.475	1.437	1.425	1.536	11.7	
1,1,2,2-Tetrachloroethane *	1.352	1.143	0.974	0.947	0.828	1.049	19.4	*
1,2,3-Trichloropropane	0.893	0.754	0.663	0.654	0.584	0.709	16.8	
n-Propylbenzene	1.055	0.830	0.857	0.839	0.826	0.881	11.1	
2-Chlorotoluene	0.916	0.729	0.732	0.718	0.732	0.765	11.0	
4-Chlorotoluene	0.982	0.773	0.750	0.729	0.701	0.787	14.3	
1,3,5-Trimethylbenzene	3.068	2.356	2.367	2.288	2.213	2.458	14.1	
tert-Butylbenzene	3.192	2.483	2.528	2.459	2.430	2.618	12.3	
1,2,4-Trimethylbenzene	3.068	2.322	2.362	2.295	2.304	2.470	13.6	
sec-Butylbenzene	4.621	3.519	3.562	3.396	3.331	3.686	14.4	
1,3-Dichlorobenzene	1.969	1.537	1.508	1.479	1.466	1.592	13.4	
4-Isopropyltoluene	4.263	3.347	3.322	3.193	3.158	3.456	13.2	
1,4-Dichlorobenzene	2.285	1.721	1.563	1.567	1.491	1.725	18.8	
1,2-Dichlorobenzene	1.809	1.502	1.387	1.389	1.254	1.468	14.3	
n-Butylbenzene	3.629	2.943	2.887	2.904	2.711	3.015	11.8	
1,2-Dibromo-3-chloropropane	0.212	0.224	0.174	0.183	0.163	0.191	13.5	
1,2,4-Trichlorobenzene	1.276	1.151	1.088	1.139	1.076	1.146	6.9	
Hexachlorobutadiene	0.934	0.746	0.712	0.692	0.656	0.748	14.5	
Naphthalene	3.008	2.981	2.177	2.714	2.273	2.630	14.8	
1,2,3-Trichlorobenzene	1.314	1.114	0.947	1.034	0.958	1.073	14.0	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

000115

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Instrument ID: _____ Calibration Date(s): _____ _____

Heated Purge: (Y/N) __ Calibration Times: _____ _____

GC Column: _____ ID: _____(mm)

Lab File ID:	RRF005=		RRF20 =				
RRF50 =	RRF100 =		RRF200 =				
COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dibromofluoromethane	0.476	0.383	0.429	0.418	0.402	0.421	8.3
1,2-Dichlorethane-d4	0.258	0.216	0.229	0.216	0.210	0.226	8.6
Toluene-d8	1.366	1.009	1.112	1.084	0.990	1.112	13.5
4-Bromofluorobenzene	0.887	0.729	0.744	0.658	0.593	0.722	15.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 11807NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 5/24/99 Time: 0842

Lab File ID: V6646.D Init. Calib. Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Init. Calib. Times: 1430 1726

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.255	0.264		-3.5	
Chloromethane	0.167	0.172	0.100	-3.0	
Vinyl Chloride	0.168	0.178		-6.0	20.0
Bromomethane	0.085	0.080		5.9	
Chloroethane	0.072	0.068		5.6	
Acrolein	0.021	0.022		-4.8	
Trichlorofluoromethane	0.266	0.240		9.8	
1,1-Dichloroethene	0.280	0.291		-3.9	20.0
Acetone	0.058	0.056		3.4	
Carbon Disulfide	0.618	0.638		-3.2	
Methylene Chloride	0.235	0.231		1.7	
trans-1,2-Dichloroethene	0.326	0.330		-1.2	
Acrylonitrile	0.062	0.062		0.0	
1,1-Dichloroethane	0.479	0.498	0.100	-4.0	
2,2-Dichloropropane	0.392	0.397		-1.3	
cis-1,2-dichloroethene	0.340	0.357		-5.0	
Bromochloromethane	0.238	0.247		-3.8	
Chloroform	0.450	0.464		-3.1	20.0
1,1,1-Trichloroethane	0.375	0.384		-2.4	
Vinyl Acetate	0.466	0.469		-0.6	
2-Butanone	0.097	0.096		1.0	
Carbon Tetrachloride	0.342	0.353		-3.2	
1,1-Dichloropropene	0.377	0.382		-1.3	
Benzene	0.931	0.947		-1.7	
1,2-Dichloroethane	0.231	0.245		-6.1	
Trichloroethene	0.377	0.377		0.0	
1,2-Dichloropropane	0.334	0.347		-3.9	20.0
Dibromomethane	0.214	0.223		-4.2	
Bromodichloromethane	0.419	0.446		-6.4	
2-Chloroethyl Vinyl Ether	0.178	0.175		1.7	
cis-1,3-Dichloropropene	0.494	0.509		-3.0	
Toluene	1.113	1.107		0.5	20.0
trans-1,3-Dichloropropene	0.410	0.422		-2.9	
1,1,2-Trichloroethane	0.299	0.308		-3.0	
4-Methyl-2-Pentanone	0.282	0.257		8.9	
Tetrachloroethene	0.395	0.373		5.6	

All other compounds must meet a minimum RRF of 0.010.

000117

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 11807NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 5/24/99 Time: 0842

Lab File ID: V6646.D Init. Calib. Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Init. Calib. Times: 1430 1726

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3-Dichloropropane	0.562	0.549		2.3	
Dibromochloromethane	0.419	0.426		-1.7	
1,2-Dibromoethane	0.403	0.404		-0.2	
2-Hexanone	0.203	0.198		2.5	
Chlorobenzene	0.856	0.846	0.300	1.2	
1,1,1,2-Tetrachloroethane	0.362	0.353		2.5	
Ethylbenzene	1.428	1.376		3.6	20.0
m&p-xylenes	0.538	0.525		2.4	
o-xylene	1.112	1.072		3.6	
Styrene	0.887	0.885		0.2	
Bromoform	0.287	0.286	0.100	0.3	
isopropylbenzene	3.088	3.065		0.7	
Bromobenzene	1.536	1.516		1.3	
1,1,2,2-Tetrachloroethane	1.049	1.036	0.300	1.2	
1,2,3-Trichloropropane	0.709	0.689		2.8	
n-Propylbenzene	0.881	0.872		1.0	
2-Chlorotoluene	0.765	0.736		3.8	
4-Chlorotoluene	0.787	0.750		4.7	
1,3,5-Trimethylbenzene	2.458	2.414		1.8	
tert-Butylbenzene	2.618	2.581		1.4	
1,2,4-Trimethylbenzene	2.470	2.405		2.6	
sec-Butylbenzene	3.686	3.641		1.2	
1,3-Dichlorobenzene	1.592	1.527		4.1	
4-Isopropyltoluene	3.456	3.354		3.0	
1,4-Dichlorobenzene	1.725	1.598		7.4	
1,2-Dichlorobenzene	1.468	1.451		1.2	
n-Butylbenzene	3.015	2.915		3.3	
1,2-Dibromo-3-chloropropane	0.191	0.177		7.3	
1,2,4-Trichlorobenzene	1.146	1.076		6.1	
Hexachlorobutadiene	0.748	0.704		5.9	
Naphthalene	2.630	2.215		15.8	
1,2,3-Trichlorobenzene	1.073	0.977		8.9	

All other compounds must meet a minimum RRF of 0.010.

000118

Lab Name: ____________ Contract: ____________

Project No.: ________ Site: ______ Location: ______ Group: ______

Instrument ID: ____________ Calibration Date: ______ Time: ______

Lab File ID: ____________ Init. Calib. Date(s): ______ ______

Heated Purge: (Y/N) ____ Init. Calib. Times: ______ ______

GC Column: ______ ID: ______(mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.421	0.436		-3.6	
1,2-Dichlorethane-d4	0.226	0.236		-4.4	
Toluene-d8	1.112	1.146		-3.1	
4-Bromofluorobenzene	0.722	0.722		0.0	

All other compounds must meet a minimum RRF of 0.010.

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 11807NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 5/24/99 Time: 2136

Lab File ID: V6661.D Init. Calib. Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Init. Calib. Times: 1430 1726

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.255	0.254		0.4	
Chloromethane	0.167	0.177	0.100	-6.0	
Vinyl Chloride	0.168	0.170		-1.2	20.0
Bromomethane	0.085	0.070		17.6	
Chloroethane	0.072	0.064		11.1	
Acrolein	0.021	0.021		0.0	
Trichlorofluoromethane	0.266	0.192		27.8	
1,1-Dichloroethene	0.280	0.296		-5.7	20.0
Acetone	0.058	0.054		6.9	
Carbon Disulfide	0.618	0.654		-5.8	
Methylene Chloride	0.235	0.237		-0.9	
trans-1,2-Dichloroethene	0.326	0.345		-5.8	
Acrylonitrile	0.062	0.062		0.0	
1,1-Dichloroethane	0.479	0.512	0.100	-6.9	
2,2-Dichloropropane	0.392	0.413		-5.4	
cis-1,2-dichloroethene	0.340	0.357		-5.0	
Bromochloromethane	0.238	0.254		-6.7	
Chloroform	0.450	0.478		-6.2	20.0
1,1,1-Trichloroethane	0.375	0.403		-7.5	
Vinyl Acetate	0.466	0.469		-0.6	
2-Butanone	0.097	0.099		-2.1	
Carbon Tetrachloride	0.342	0.372		-8.8	
1,1-Dichloropropene	0.377	0.390		-3.4	
Benzene	0.931	0.958		-2.9	
1,2-Dichloroethane	0.231	0.251		-8.7	
Trichloroethene	0.377	0.397		-5.3	
1,2-Dichloropropane	0.334	0.351		-5.1	20.0
Dibromomethane	0.214	0.219		-2.3	
Bromodichloromethane	0.419	0.445		-6.2	
2-Chloroethyl Vinyl Ether	0.178	0.174		2.2	
cis-1,3-Dichloropropene	0.494	0.514		-4.0	
Toluene	1.113	1.134		-1.9	20.0
trans-1,3-Dichloropropene	0.410	0.429		-4.6	
1,1,2-Trichloroethane	0.299	0.304		-1.7	
4-Methyl-2-Pentanone	0.282	0.278		1.4	
Tetrachloroethene	0.395	0.399		-1.0	

All other compounds must meet a minimum RRF of 0.010.

000120

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 11807NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 5/24/99 Time: 2136

Lab File ID: V6661.D Init. Calib. Date(s): 5/18/99 5/18/99

Heated Purge: (Y/N) N Init. Calib. Times: 1430 1726

GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,3-Dichloropropane	0.562	0.582		-3.6	
Dibromochloromethane	0.419	0.456		-8.8	
1,2-Dibromoethane	0.403	0.416		-3.2	
2-Hexanone	0.203	0.191		5.9	
Chlorobenzene	0.856	0.886	0.300	-3.5	
1,1,1,2-Tetrachloroethane	0.362	0.393		-8.6	
Ethylbenzene	1.428	1.511		-5.8	20.0
m&p-xylenes	0.538	0.563		-4.6	
o-xylene	1.112	1.165		-4.8	
Styrene	0.887	0.959		-8.1	
Bromoform	0.287	0.303	0.100	-5.6	
isopropylbenzene	3.088	3.158		-2.3	
Bromobenzene	1.536	1.584		-3.1	
1,1,2,2-Tetrachloroethane	1.049	1.031	0.300	1.7	
1,2,3-Trichloropropane	0.709	0.703		0.8	
n-Propylbenzene	0.881	0.901		-2.3	
2-Chlorotoluene	0.765	0.774		-1.2	
4-Chlorotoluene	0.787	0.787		0.0	
1,3,5-Trimethylbenzene	2.458	2.506		-2.0	
tert-Butylbenzene	2.618	2.671		-2.0	
1,2,4-Trimethylbenzene	2.470	2.504		-1.4	
sec-Butylbenzene	3.686	3.774		-2.4	
1,3-Dichlorobenzene	1.592	1.594		-0.1	
4-Isopropyltoluene	3.456	3.500		-1.3	
1,4-Dichlorobenzene	1.725	1.649		4.4	
1,2-Dichlorobenzene	1.468	1.496		-1.9	
n-Butylbenzene	3.015	3.077		-2.1	
1,2-Dibromo-3-chloropropane	0.191	0.181		5.2	
1,2,4-Trichlorobenzene	1.146	1.131		1.3	
Hexachlorobutadiene	0.748	0.761		-1.7	
Naphthalene	2.630	2.238		14.9	
1,2,3-Trichlorobenzene	1.073	1.022		4.8	

All other compounds must meet a minimum RRF of 0.010.

000121

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Instrument ID: _____ Calibration Date: _____ Time: _____

Lab File ID: _____ Init. Calib. Date(s): _____ _____

Heated Purge: (Y/N) _____ Init. Calib. Times: _____ _____

GC Column: _____ ID: _____(mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.421	0.421		0.0	
1,2-Dichlorethane-d4	0.226	0.226		0.0	
Toluene-d8	1.112	1.083		2.6	
4-Bromofluorobenzene	0.722	0.689		4.6	

All other compounds must meet a minimum RRF of 0.010.

E.

SURROGATE COMPOUND RECOVERY RESULTS SUMMARY

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: _____ Location: _____ Group: D0-0018-06-001

	SAMPLE NO.	SMC1 (DBFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	VBLK01	107	109	107	102	
02	D0-0018-06-FIELD B	102	107	103	98	
03	D0-0018-06-001	107	112	107	104	
04	D0-0018-06-006	96	100	96	93	
05	D0-0018-06-007	101	105	100	99	
06	D0-0018-06-008	102	105	91	89	
07	VBLK02	98	99	100	99	
08	D0-0018-06-005	99	102	100	98	
09	D0-0018-06-002	102 D	103 D	101 D	97 D	
10	D0-0018-06-008DL	101 D	104 D	105 D	100 D	
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

	QC LIMITS
SMC1 (DBFM) = Dibromofluoromethane	(86-118)
SMC2 (DCE) = 1,2-Dichlorethane-d4	(80-120)
SMC3 (TOL) = Toluene-d8	(88-110)
SMC4 (BFB) = 4-Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

000124

F.

MS/ MSD RESULTS SUMMARY

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECH Contract: FANNING,PHILLIPS,AND MULNAR

Project No. 11350C Site: Location: Group: BORDAN AVE

Matrix Spike - Sample No.: MW-8

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	57	114	(61-145)
Benzene	50	0	47	94	(60-140)
Trichloroethene	50	0	46	92	(40-160)
Toluene	50	0	48	96	(76-125)
Chlorobenzene	50	0	47	94	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MS % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	56	112	2	14	(61-145)
Benzene	50	49	98	4	14	(60-140)
Trichloroethene	50	47	94	2	13	(40-160)
Toluene	50	50	100	4	13	(76-125)
Chlorobenzene	50	49	98	4	13	(75-130)

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Comments:

000126

G.

INTERNAL STANDARD RESULTS SUMMARY

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-06-0

Lab File ID (Standard): V6646.D Date Analyzed: 5/24/99

Instrument ID: VOA 1 Time Analyzed: 0842

GC Column: RTX624 ID: 0.53 (mm) Heated Purge (Y/N) N

		IS1 (FB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1563100	13.17	1543912	21.57	779953	27.42
	UPPER LIMIT	3126200	13.67	3087824	22.07	1559906	27.92
	LOWER LIMIT	781550	12.67	771956	21.07	389977	26.92
	SAMPLE NO.						
01	VBLK01	1639218	13.21	1656770	21.59	788944	27.44
02	D0-0018-06-FIELD BLA	1590310	13.19	1556259	21.58	717240	27.44
03	D0-0018-06-001	1560788	13.18	1524094	21.59	716097	27.44
04	D0-0018-06-006	1572322	13.19	1547988	21.60	716703	27.45
05	D0-0018-06-007	1468922	13.20	1442120	21.60	649697	27.45
06	D0-0018-06-008	1426320	13.30	1271654	21.62	621160	27.45
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (FB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

000128

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 11807NJ Site: Location: Group: D0-0018-06-0

Lab File ID (Standard): V6661.D Date Analyzed: 5/24/99

Instrument ID: VOA 1 Time Analyzed: 2136

GC Column: RTX624 ID: 0.53 (mm) Heated Purge (Y/N) N

		IS1 (FB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	1547456	13.18	1447579	21.58	766125	27.43
	UPPER LIMIT	3094912	13.68	2895158	22.08	1532250	27.93
	LOWER LIMIT	773728	12.68	723790	21.08	383063	26.93
	SAMPLE NO.						
01	VBLK02	1641624	13.20	1627719	21.58	782341	27.43
02	D0-0018-06-005	1670064	13.21	1589885	21.61	804574	27.46
03	D0-0018-06-002	1621448	13.19	1559922	21.58	755583	27.44
04	D0-0018-06-008DL	1671518	13.17	1666159	21.57	843320	27.42
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (FB) = Fluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
* Values outside of QC limits.

000129

H.

CHROMATOGRAMS

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6651.D
Acq Time : 24 May 99 1:07 pm
Sample : 11807NJ-73318
Misc : 5ML
Quant Time: May 24 17:23 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.18	96	1560788	50.00 ug/L	0.04
42) Chlorobenzene-d5	21.59	117	1524094	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.44	152	716097	50.00 ug/L	0.05
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.02	113	702181	53.38 ug/L	106.76%
29) 1,2-Dichlorethane-d4	12.21	65	396248	56.19 ug/L	112.38%
37) Toluene-d8	17.79	98	1861928	53.63 ug/L	107.26%
41) 4-Bromofluorobenzene	24.60	95	1166530	51.75 ug/L	103.49%
Target Compounds					Qvalue
44) tetrachloroethene	19.35	166	212196	17.62 ug/L	97

000131

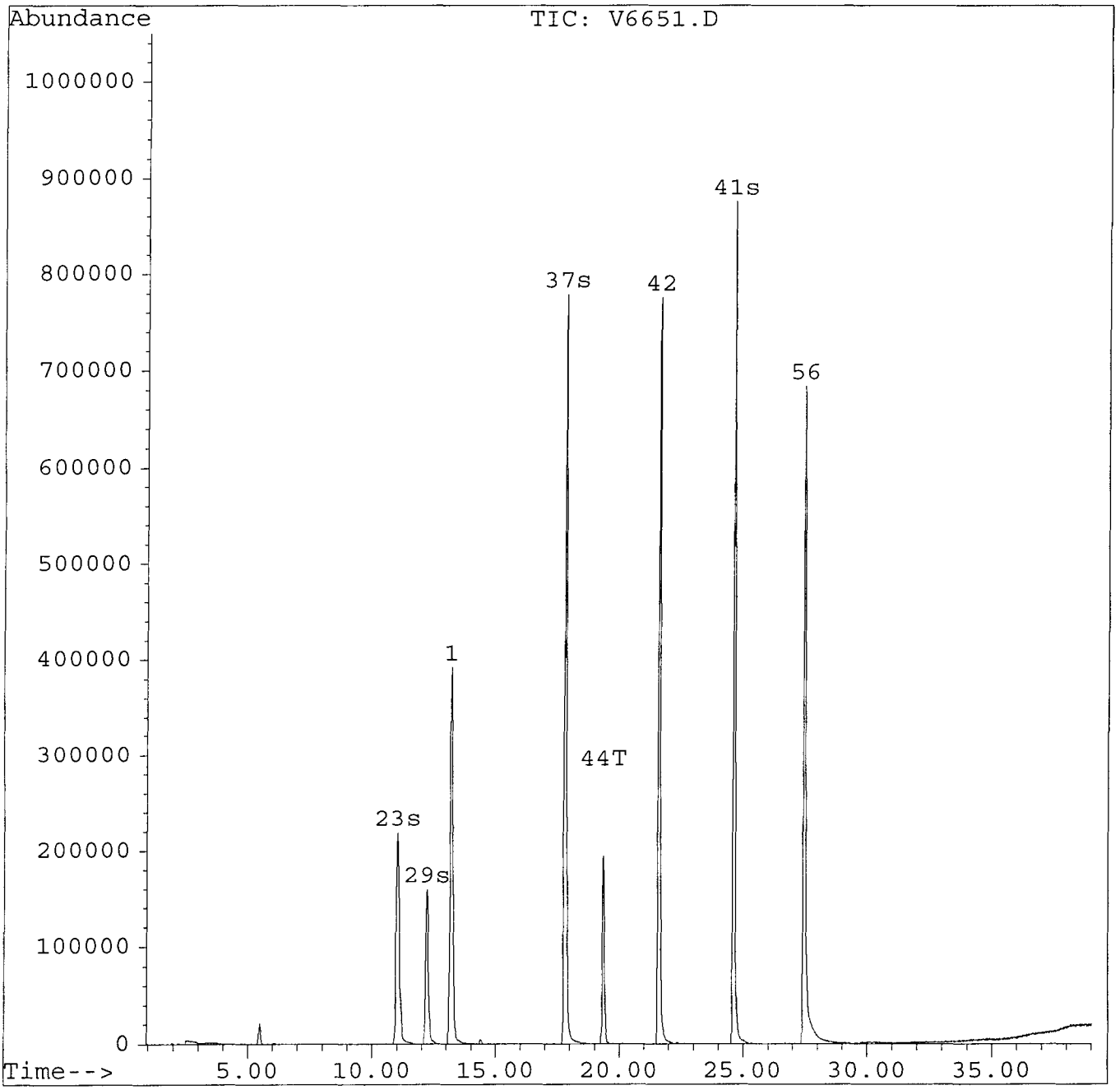
(#) = qualifier out of range (m) = manual integration

Quantitation Report

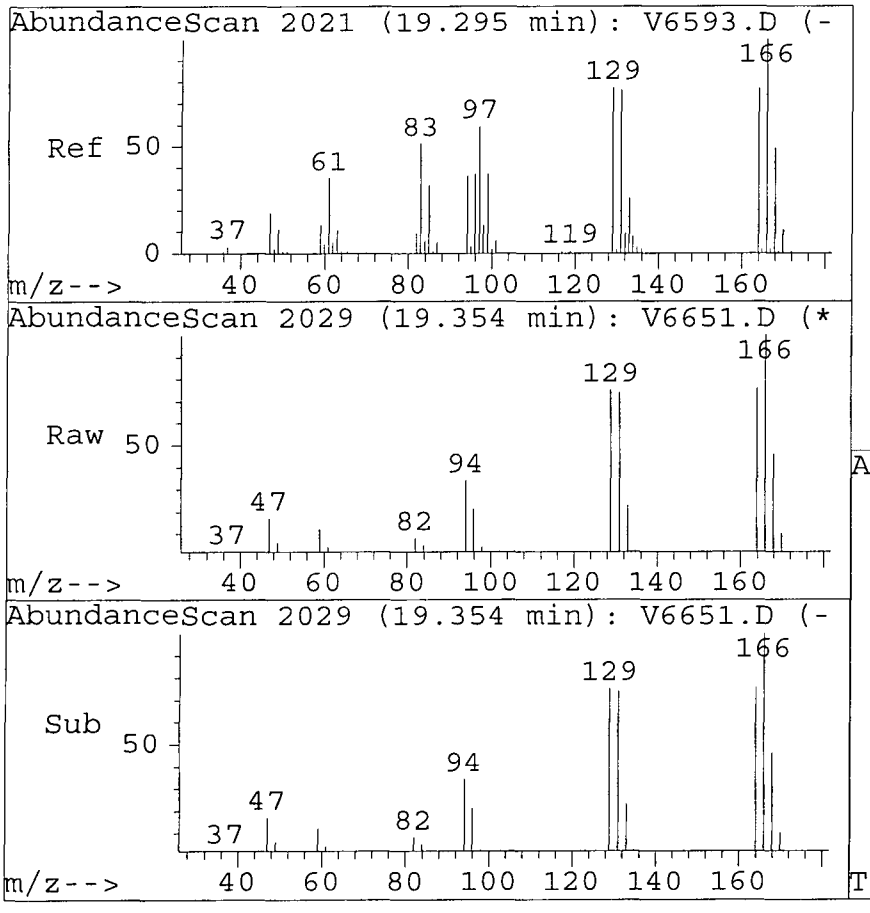
Data File : D:\HPCHEM\1\DATA\V1052499\V6651.D
Acq Time : 24 May 99 1:07 pm
Sample : 11807NJ-73318
Misc : 5ML
Quant Time: May 24 17:23 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



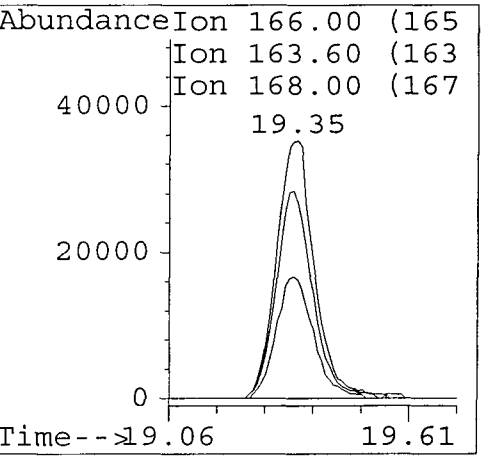
000132



#44
tetrachloroethene
Concen: 17.62 ug/L
RT: 19.35 min Scan# 2029
Delta R.T. 0.06 min
Lab File: V6651.D
Acq: 24 May 99 1:07 pm

Tgt Ion:166 Resp: 212196

Ion	Ratio	Lower	Upper
166	100		
164	76.0	54.1	100.5
168	46.1	34.3	63.7
0	0.0	0.0	0.0



000133

Quantitation Report

Data File : I:\HPCHEM\1\DATA\V1052499\V6667.D
Acq Time : 25 May 99 2:58 am
Sample : 11807NJ-73319 1:100 DIL
Misc : 5ML
Quant Time: May 25 11:18 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : I:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.19	96	1621448	50.00 ug/L	0.04
42) Chlorobenzene-d5	21.58	117	1559922	50.00 ug/L	0.04
56) 1,4-dichlorobenzene-d4	27.44	152	755583	50.00 ug/L	0.04
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.03	113	697092	51.01 ug/L	102.02%
29) 1,2-Dichlorethane-d4	12.22	65	378715	51.69 ug/L	103.39%
37) Toluene-d8	17.79	98	1819337	50.44 ug/L	100.88%
41) 4-Bromofluorobenzene	24.60	95	1133316	48.39 ug/L	96.78%
Target Compounds					Qvalue
26) carbon tetrachloride	11.26	117	39398	3.55 ug/L	99
31) trichloroethene	14.32	130	2206475	180.46 ug/L	99

000134

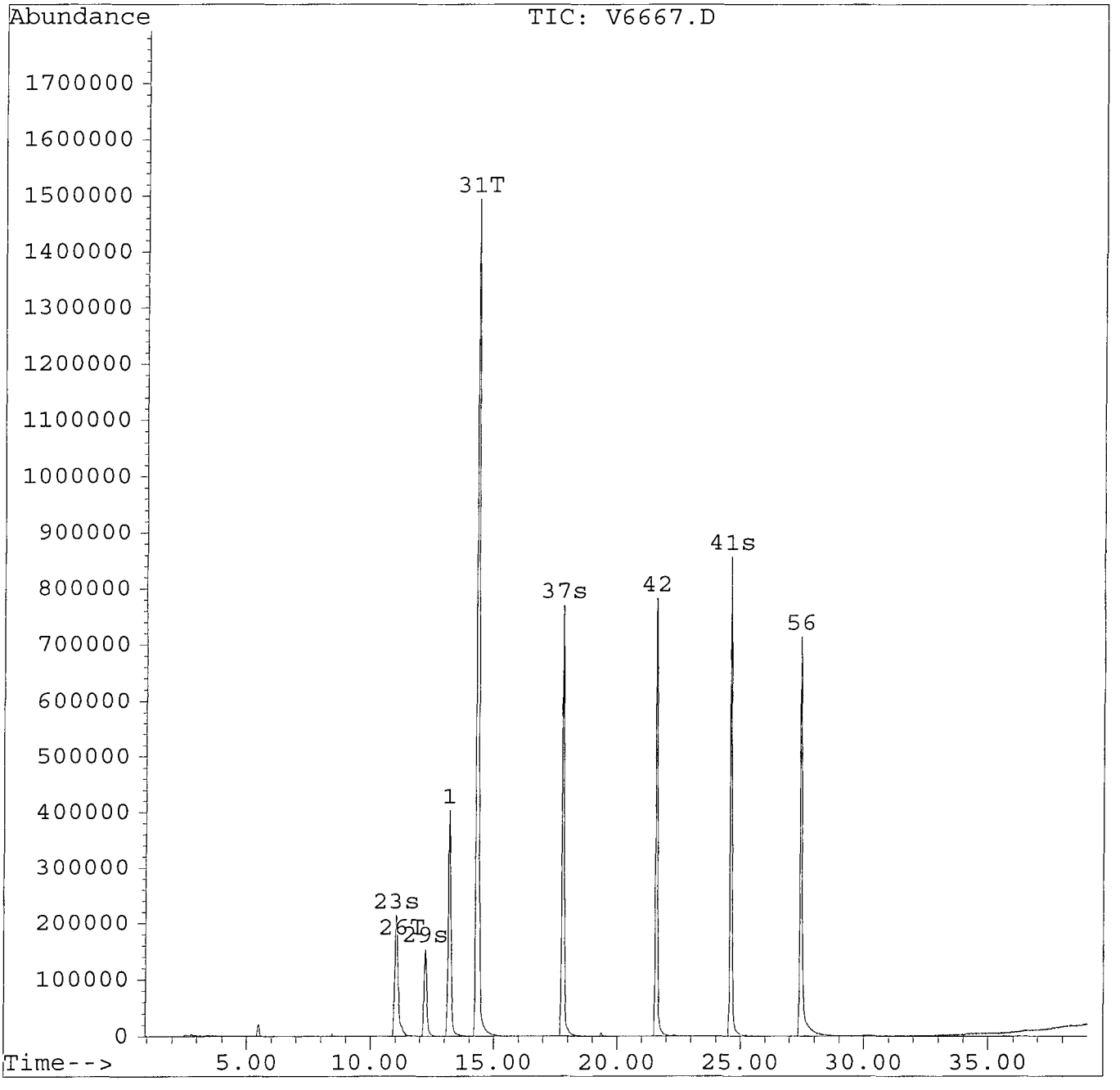
(#) = qualifier out of range (m) = manual integration

Quantitation Report

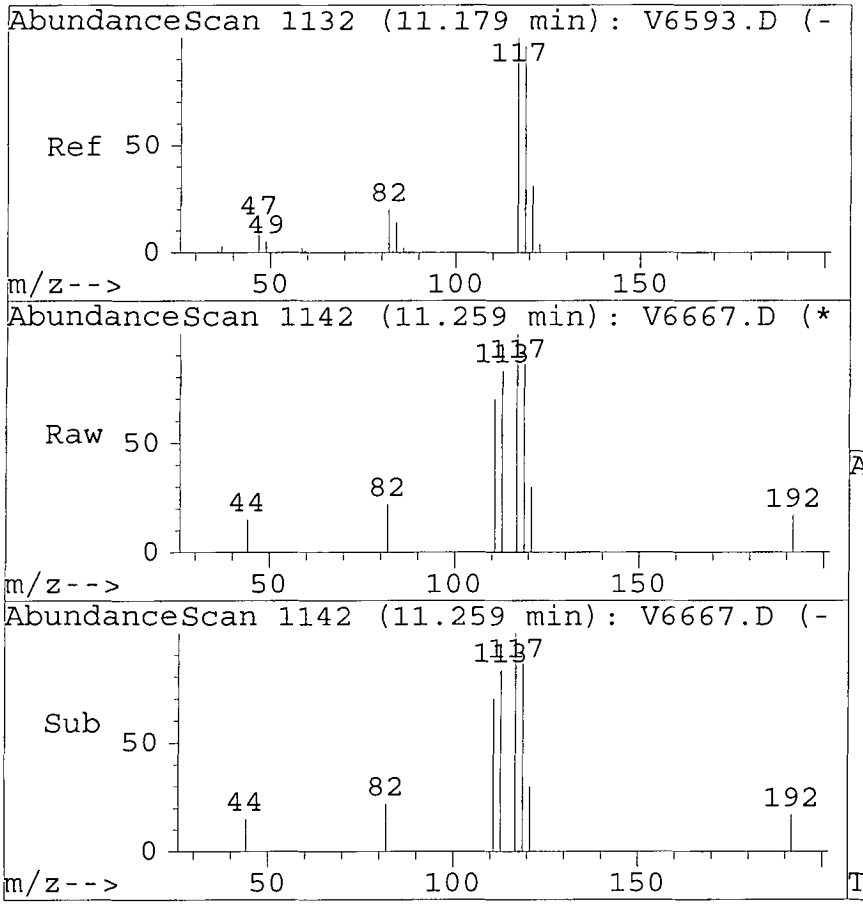
Data File : I:\HPCHEM\1\DATA\V1052499\V6667.D
Acq Time : 25 May 99 2:58 am
Sample : 11807NJ-73319 1:100 DIL
Misc : 5ML
Quant Time: May 25 11:18 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : I:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



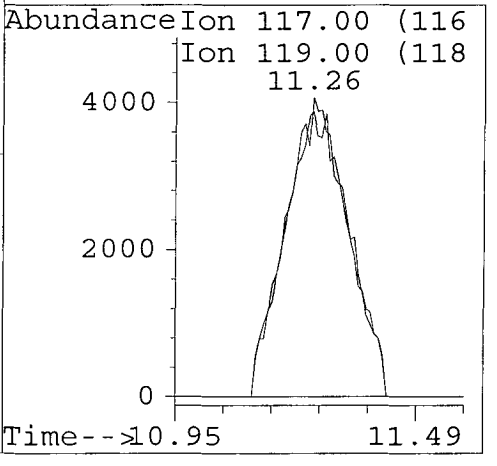
000135

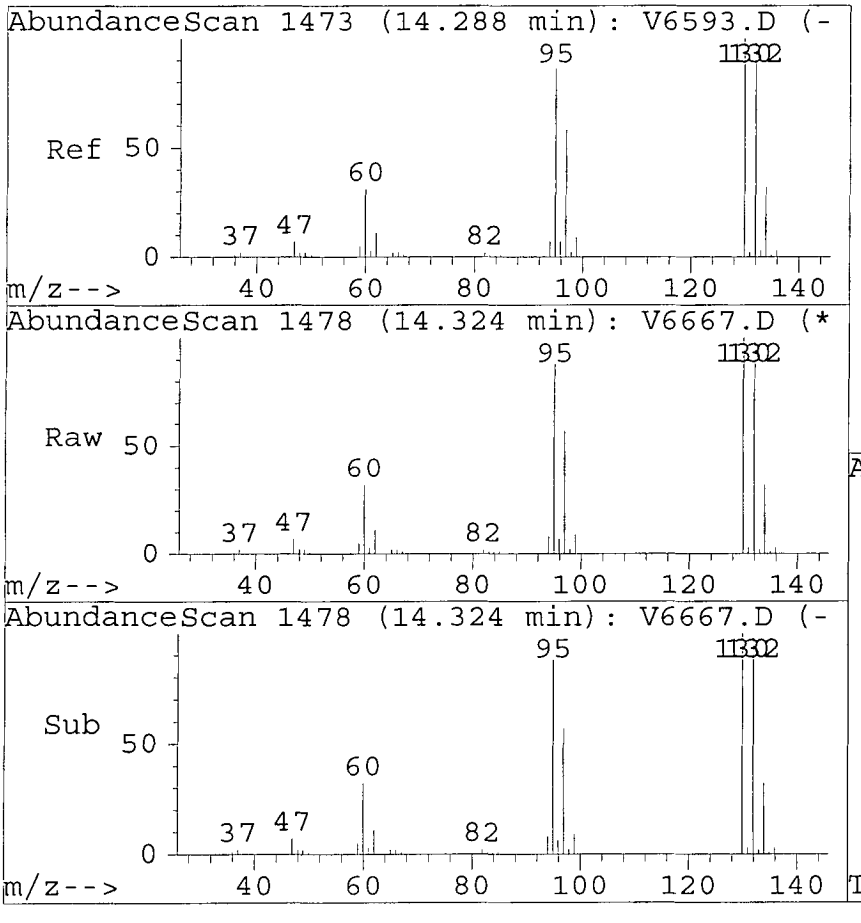


#26
carbon tetrachloride
Concen: 3.55 ug/L
RT: 11.26 min Scan# 1142
Delta R.T. 0.08 min
Lab File: V6667.D
Acq: 25 May 99 2:58 am

Tgt Ion:117 Resp: 39398

Ion	Ratio	Lower	Upper
117	100		
119	95.3	67.5	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

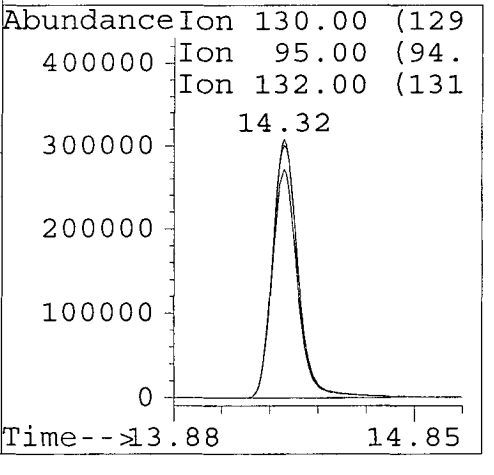




#31
trichloroethene
Concen: 180.46 ug/L
RT: 14.32 min Scan# 1478
Delta R.T. 0.04 min
Lab File: V6667.D
Acq: 25 May 99 2:58 am

Tgt Ion:130 Resp: 2206475

Ion	Ratio	Lower	Upper
130	100		
95	88.3	60.2	111.7
132	97.6	68.6	127.3
0	0.0	0.0	0.0



000136

Quantitation Report

Data File : I:\HPCHEM\1\DATA\V1052499\V6666.d
Acq Time : 25 May 99 2:12 am
Sample : 11807NJ-73322
Misc : 5ML
Quant Time: May 25 11:03 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : I:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.21	96	1670064	50.00 ug/L	0.06
42) Chlorobenzene-d5	21.61	117	1589885	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	804574	50.00 ug/L	0.06
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.05	113	698372	49.62 ug/L	99.24%
29) 1,2-Dichlorethane-d4	12.22	65	382959	50.75 ug/L	101.50%
37) Toluene-d8	17.81	98	1864080	50.18 ug/L	100.36%
41) 4-Bromofluorobenzene	24.62	95	1187003	49.21 ug/L	98.42%
Target Compounds					Qvalue
31) trichloroethene	14.34	130	1978433	157.10 ug/L	99
40) 1,1,2-trichloroethane	19.36	97	23134	2.32 ug/L	93

000137

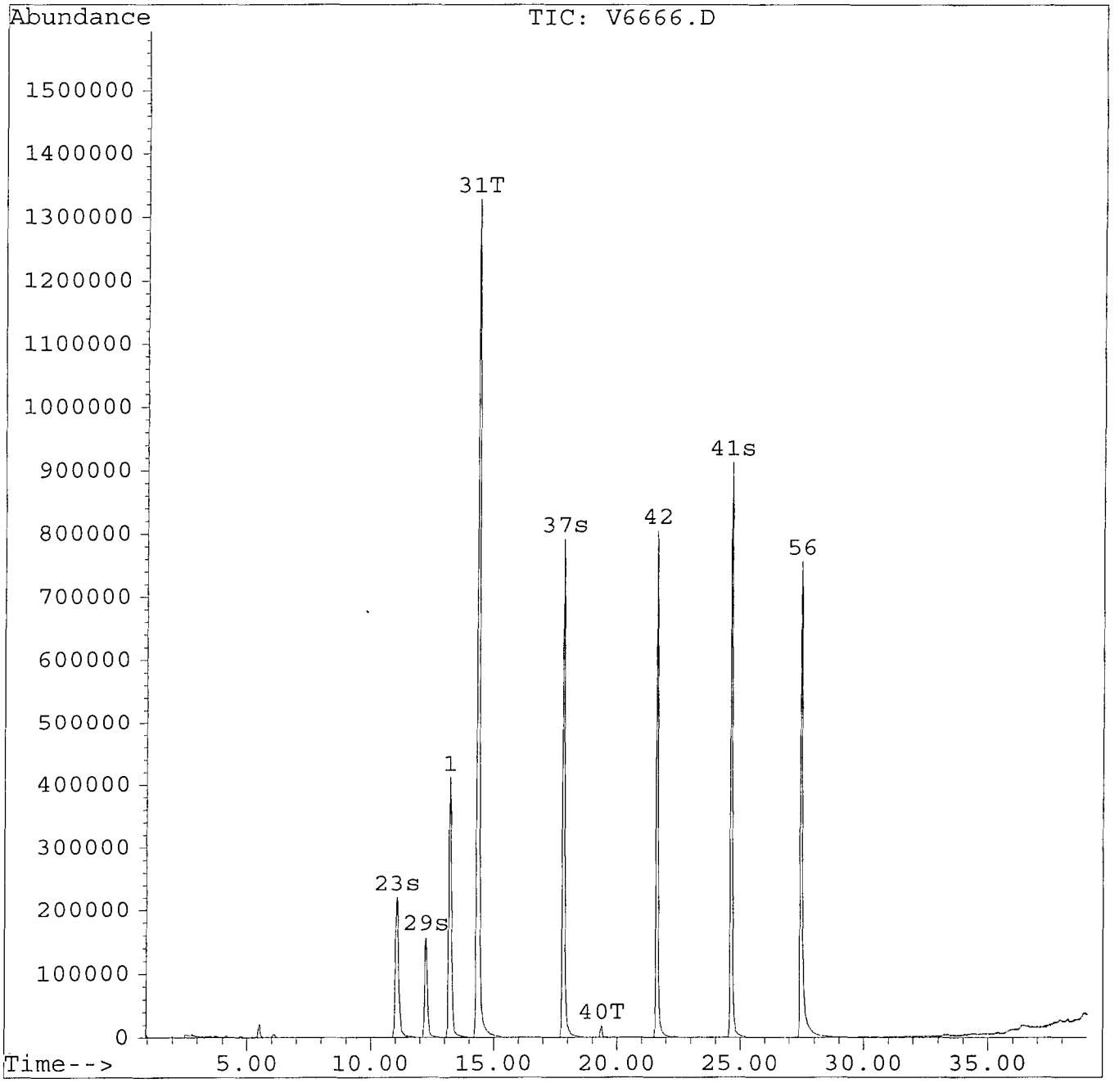
(#) = qualifier out of range (m) = manual integration

Quantitation Report

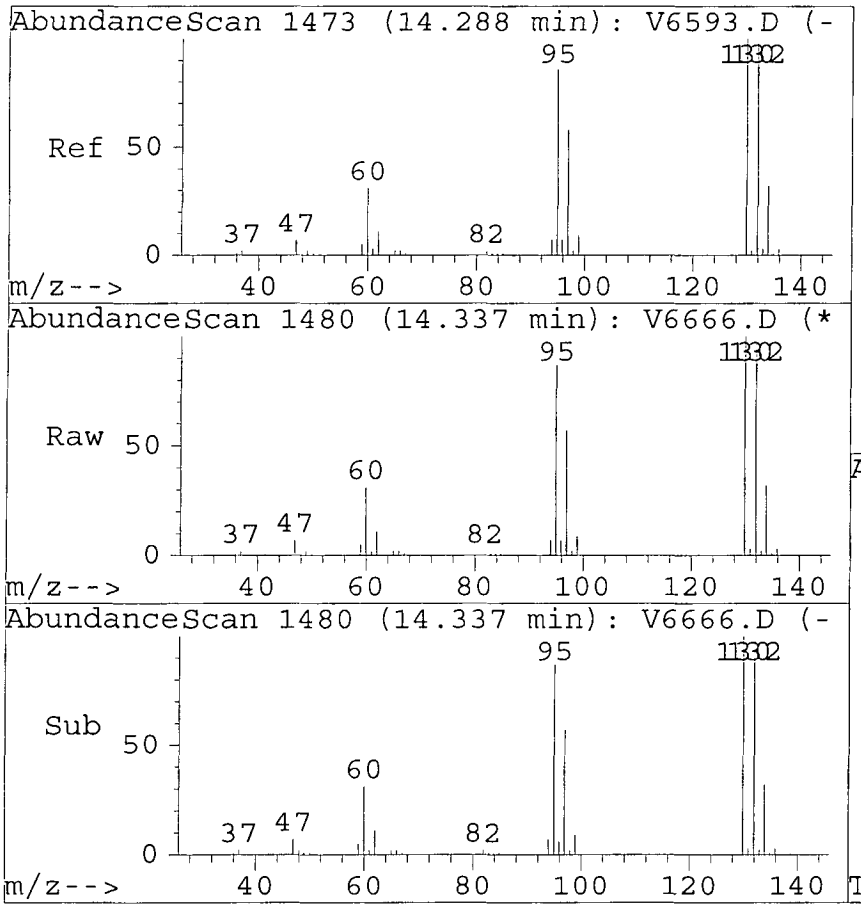
Data File : I:\HPCHEM\1\DATA\V1052499\V6666.d
Acq Time : 25 May 99 2:12 am
Sample : 11807NJ-73322
Misc : 5ML
Quant Time: May 25 11:03 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : I:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



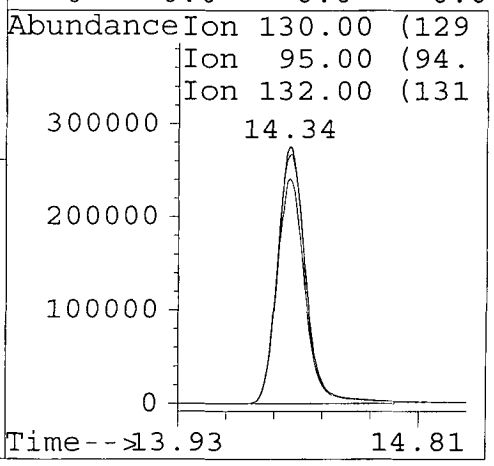
000138

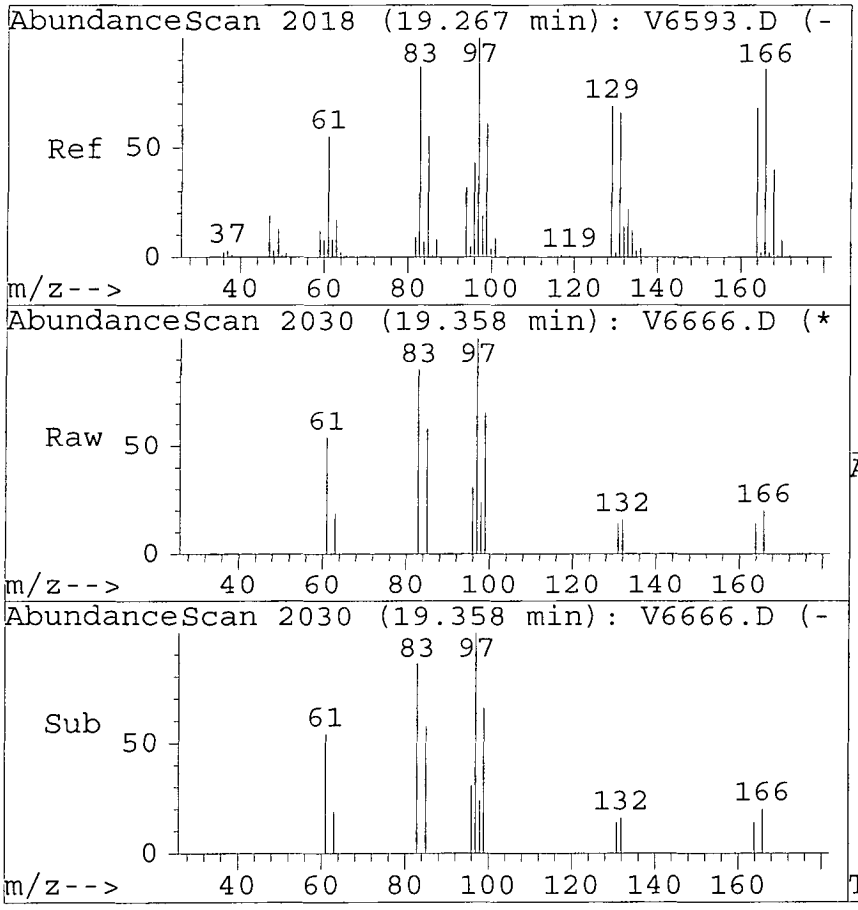


#31
trichloroethene
Concen: 157.10 ug/L
RT: 14.34 min Scan# 1480
Delta R.T. 0.05 min
Lab File: V6666.d
Acq: 25 May 99 2:12 am

Tgt Ion:130 Resp: 1978433

Ion	Ratio	Lower	Upper
130	100		
95	87.3	60.2	111.7
132	96.5	68.6	127.3
0	0.0	0.0	0.0

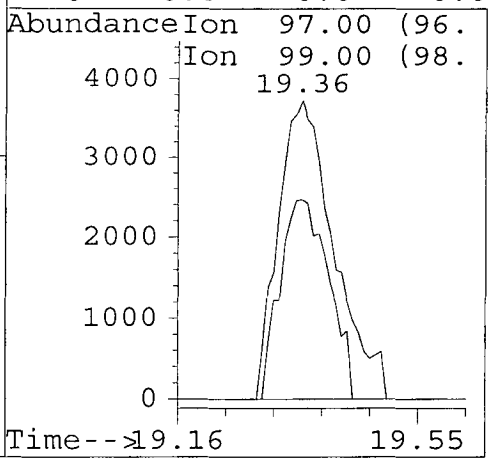




#40
1,1,2-trichloroethane
Concen: 2.32 ug/L
RT: 19.36 min Scan# 2030
Delta R.T. 0.09 min
Lab File: V6666.d
Acq: 25 May 99 2:12 am

Tgt Ion:97 Resp: 23134

Ion	Ratio	Lower	Upper
97	100		
99	65.9	42.7	79.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



000139

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6654.D
Acq Time : 24 May 99 3:29 pm
Sample : 11807NJ-73323
Misc : 5ML
Quant Time: May 24 17:25 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.19	96	1572322	50.00 ug/L	0.04
42) Chlorobenzene-d5	21.60	117	1547988	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.45	152	716703	50.00 ug/L	0.06
System Monitoring Compounds					**%Recovery**
23) Dibromofluoromethane	11.04	113	634182	47.86 ug/L	95.72%
29) 1,2-Dichlorethane-d4	12.21	65	354164	49.85 ug/L	99.70%
37) Toluene-d8	17.80	98	1680798	48.06 ug/L	96.11%
41) 4-Bromofluorobenzene	24.62	95	1060690	46.71 ug/L	93.41%

Target Compounds Qvalue

000140

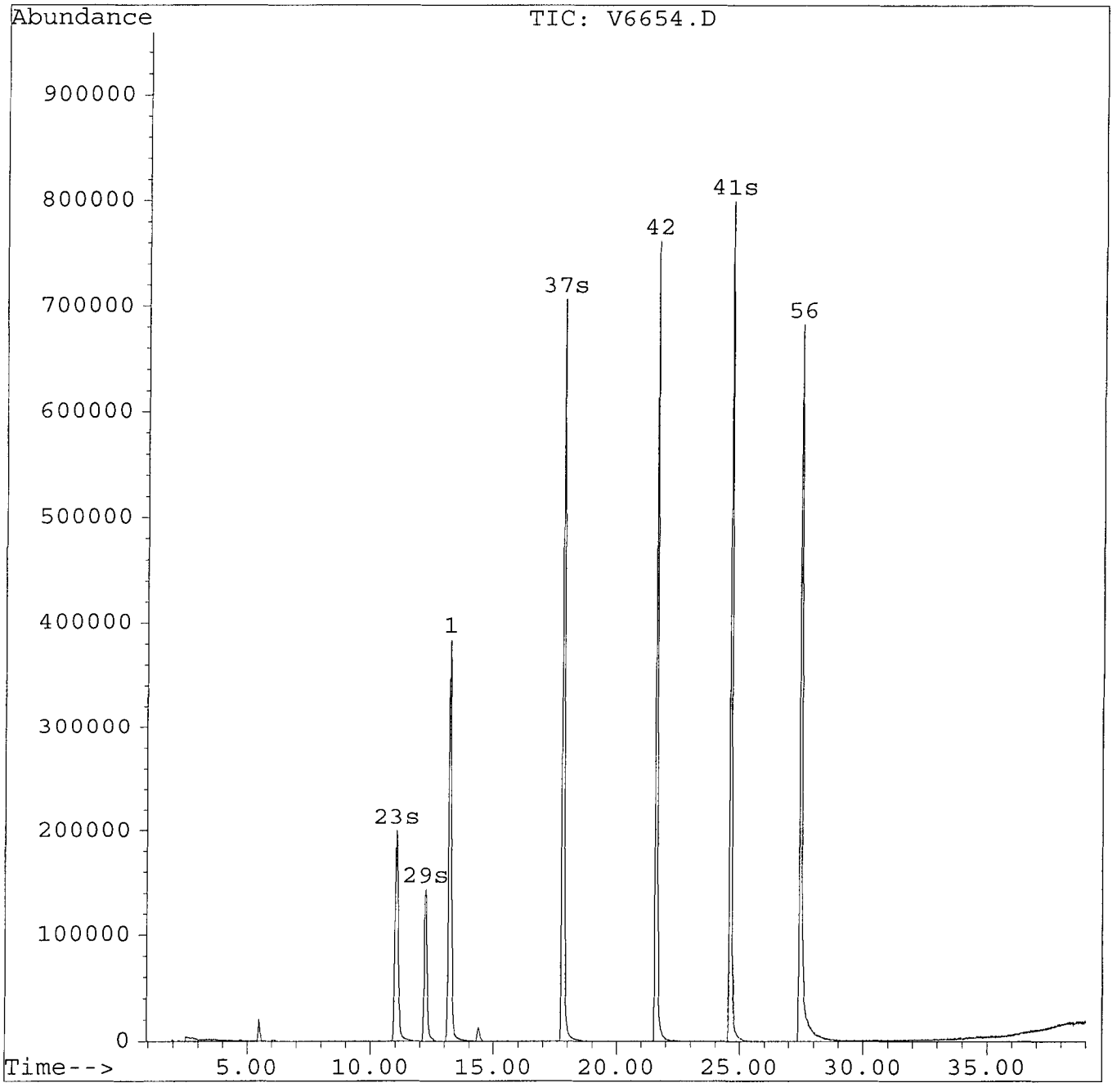
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6654.D
Acq Time : 24 May 99 3:29 pm
Sample : 11807NJ-73323
Misc : 5ML
Quant Time: May 24 17:25 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



000141

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6655.D
Acq Time : 24 May 99 4:14 pm
Sample : 11807NJ-73324
Misc : 5ML
Quant Time: May 24 17:25 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.20	96	1468922	50.00 ug/L	0.06
42) Chlorobenzene-d5	21.60	117	1442120	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.45	152	649697	50.00 ug/L	0.05
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.04	113	625415	50.52 ug/L	101.04%
29) 1,2-Dichlorethane-d4	12.22	65	349687	52.69 ug/L	105.37%
37) Toluene-d8	17.81	98	1637218	50.11 ug/L	100.21%
41) 4-Bromofluorobenzene	24.62	95	1053782	49.67 ug/L	99.33%
Target Compounds					Qvalue
31) trichloroethene	14.37	130	34957	3.16 ug/L	95

000142

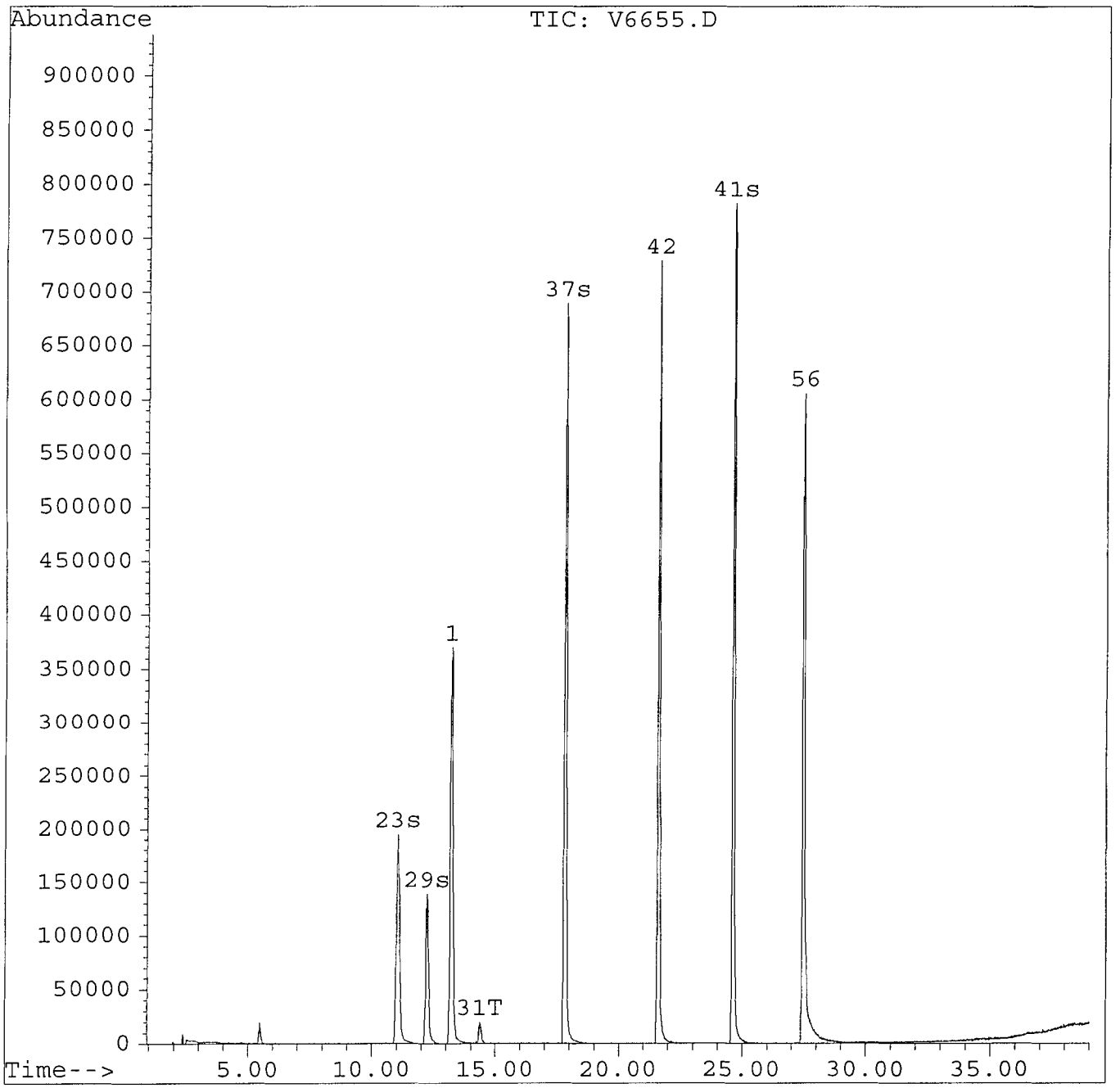
(#) = qualifier out of range (m) = manual integration

Quantitation Report

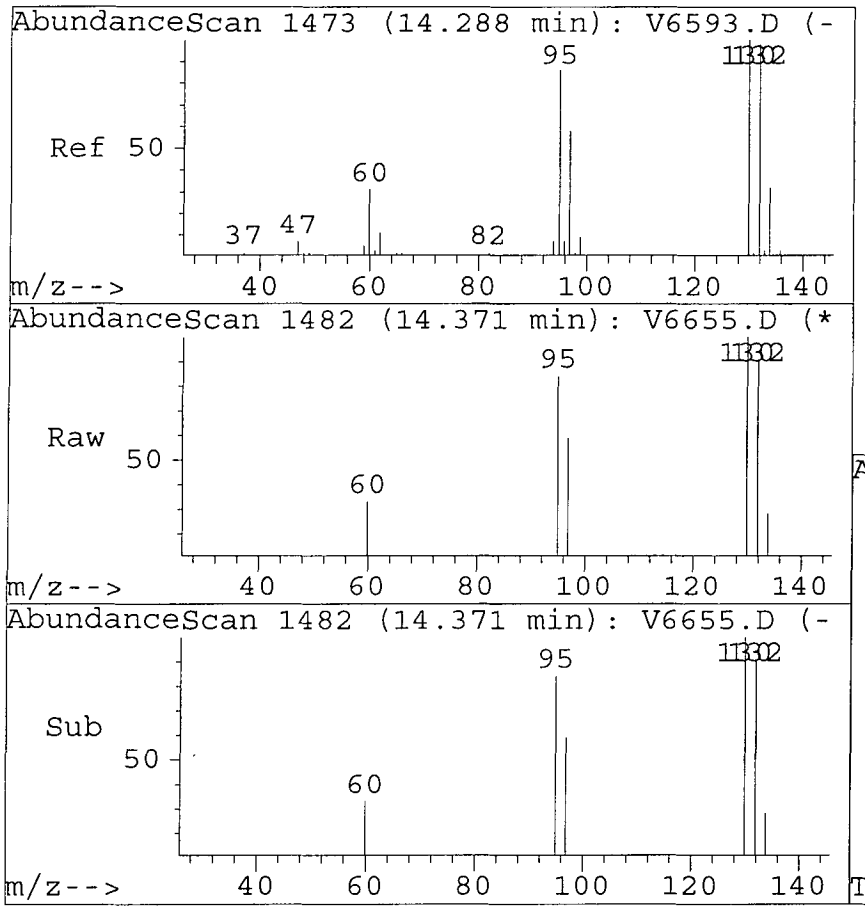
Data File : D:\HPCHEM\1\DATA\V1052499\V6655.D
Acq Time : 24 May 99 4:14 pm
Sample : 11807NJ-73324
Misc : 5ML
Quant Time: May 24 17:25 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



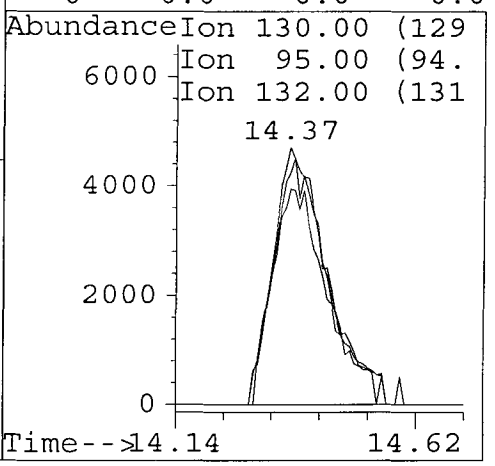
000143



#31
trichloroethene
Concen: 3.16 ug/L
RT: 14.37 min Scan# 1482
Delta R.T. 0.08 min
Lab File: V6655.D
Acq: 24 May 99 4:14 pm

Tgt Ion:130 Resp: 34957

Ion	Ratio	Lower	Upper
130	100		
95	83.8	60.1	111.7
132	90.1	68.5	127.3
0	0.0	0.0	0.0



000144

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6656.D
Acq Time : 24 May 99 4:59 pm
Sample : 11807NJ-73325
Misc : 5ML
Quant Time: May 24 17:42 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.30	96	1426320	50.00 ug/L	0.15
42) Chlorobenzene-d5	21.62	117	1271654	50.00 ug/L	0.07
56) 1,4-dichlorobenzene-d4	27.45	152	621160	50.00 ug/L	0.06
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.10	113	614685	51.14 ug/L	102.27%
29) 1,2-Dichlorethane-d4	12.28	65	336735	52.25 ug/L	104.50%
37) Toluene-d8	17.87	98	1441278	45.43 ug/L	90.85%
41) 4-Bromofluorobenzene	24.62	95	913964	44.36 ug/L	88.73%
Target Compounds					Qvalue
4) vinyl chloride	2.60	62	10278	2.14 ug/L	99
8) trichlorofluoromethane	3.54	101	35014	4.62 ug/L	98
9) 1,1-dichloroethene	4.45	61	243148	30.45 ug/L	99
12) methylene chloride	5.54	84	104754	15.66 ug/L	95
19) cis-1,2-dichloroethene	9.18	61	465419	48.04 ug/L	100
21) chloroform	10.46	83	3153052	245.57 ug/L	97
26) carbon tetrachloride	11.38	117	36234864	3709.21 ug/L m	98
28) benzene	12.27	78	975337	36.72 ug/L m	97
30) 1,2-dichloroethane	12.56	62	63061	9.57 ug/L	97
31) trichloroethene	14.47	130	216934924	20169.62 ug/L m	9
38) toluene	18.03	91	11666483	367.52 ug/L	99
40) 1,1,2-trichloroethane	19.33	97	2015885	236.26 ug/L	98
44) tetrachloroethene	19.40	166	3945366	392.55 ug/L	98
51) ethylbenzene	21.95	91	2395078	65.96 ug/L	99
52) m&p-xylenes	22.27	106	3006413	219.74 ug/L	96
53) o-xylene	23.24	91	2707626	95.76 ug/L	99
57) isopropylbenzene	24.16	105	606468	15.81 ug/L	100
61) n-propylbenzene	24.16	120	173970	15.89 ug/L	91
64) 1,3,5-trimethylbenzene	25.68	105	187022	6.12 ug/L	94
66) 1,2,4-trimethylbenzene	26.59	105	348636	11.36 ug/L	99
76) naphthalene	33.08	128	137061	4.19 ug/L m	98

000145

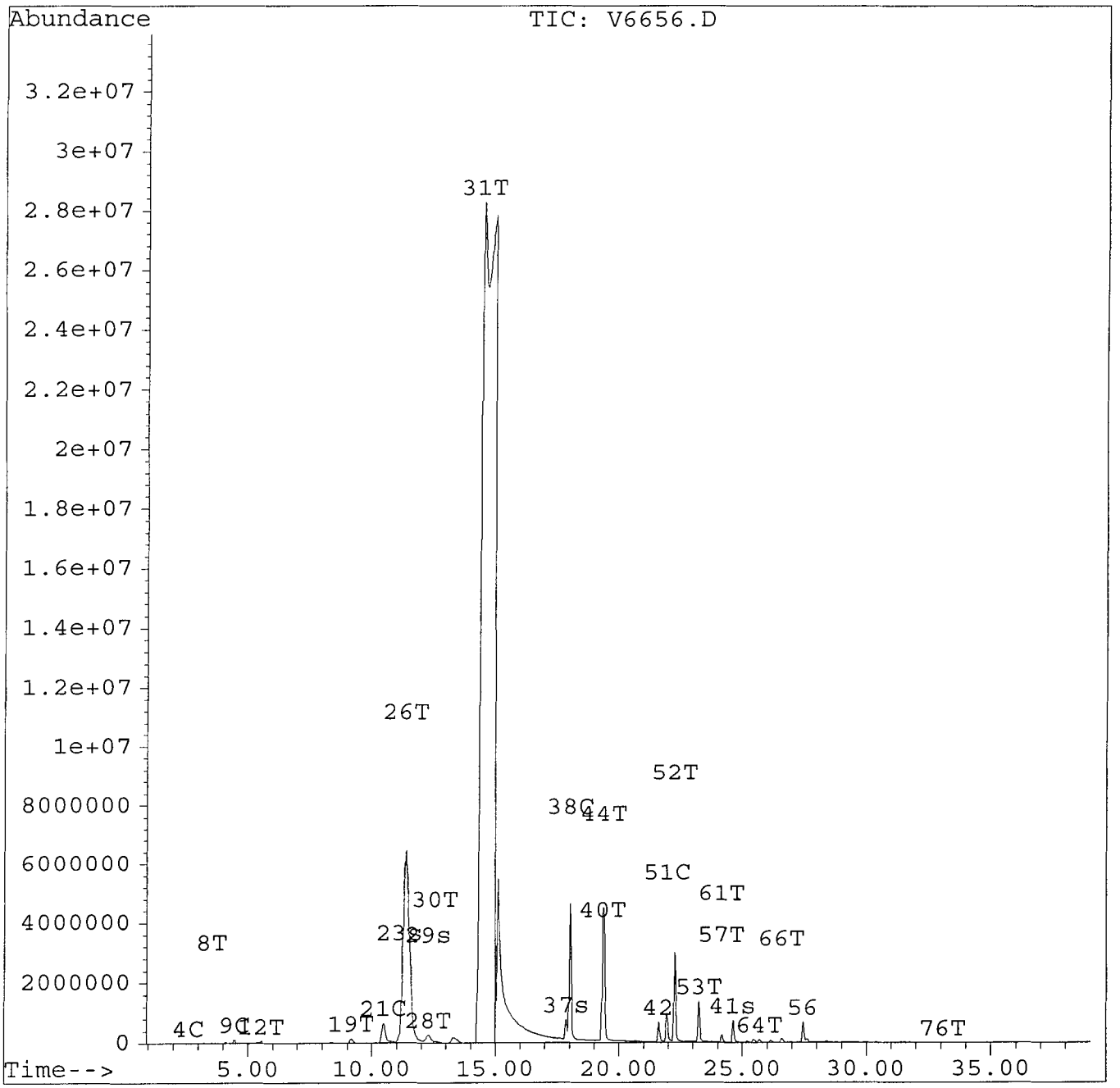
(#) = qualifier out of range (m) = manual integration

Quantitation Report

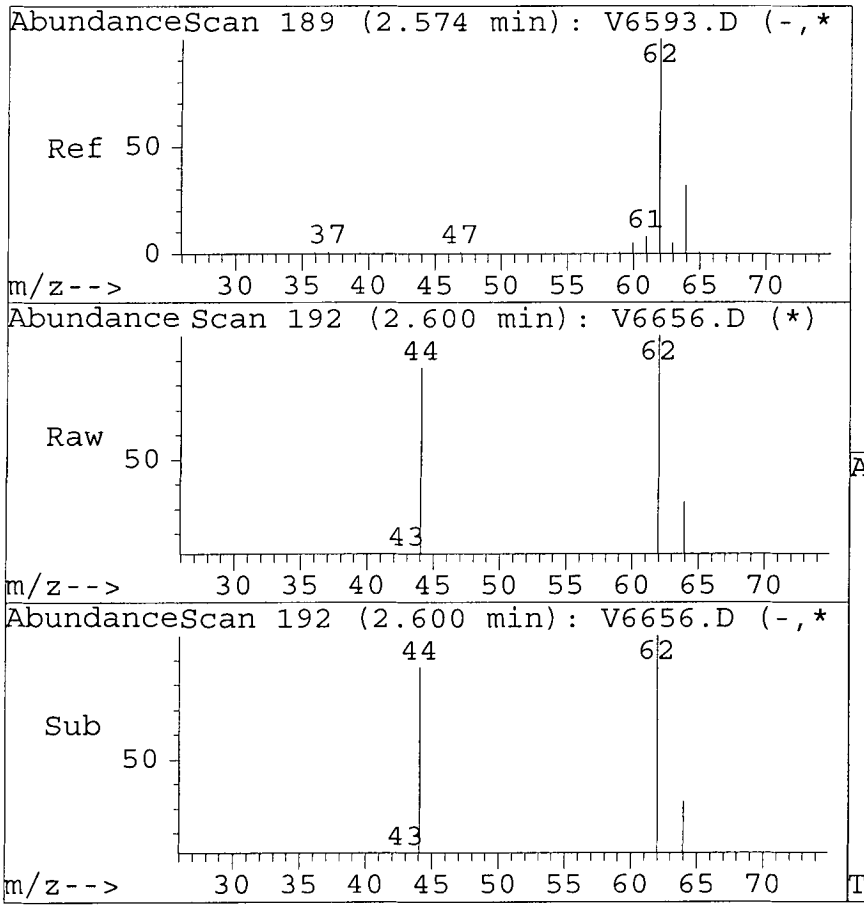
Data File : D:\HPCHEM\1\DATA\V1052499\V6656.D
Acq Time : 24 May 99 4:59 pm
Sample : 11807NJ-73325
Misc : 5ML
Quant Time: May 24 17:42 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



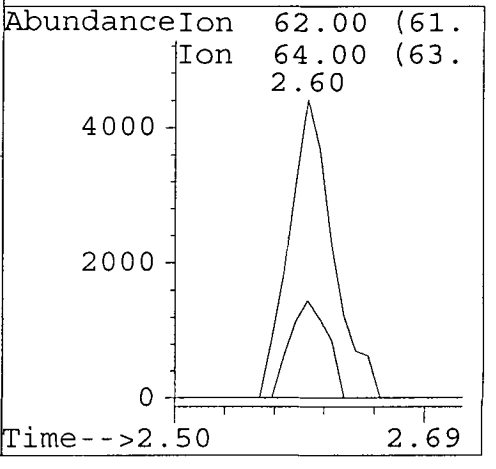
000146

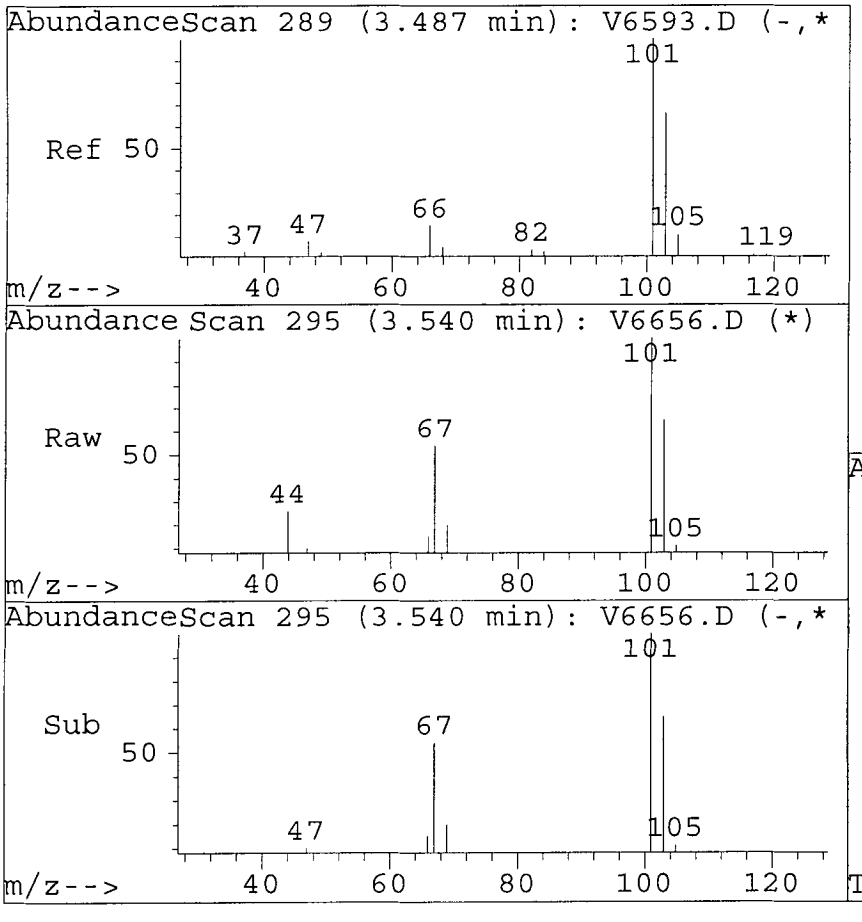


#4
vinyl chloride
Concen: 2.14 ug/L
RT: 2.60 min Scan# 192
Delta R.T. 0.03 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:62 Resp: 10278

Ion	Ratio	Lower	Upper
62	100		
64	32.8	22.7	42.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

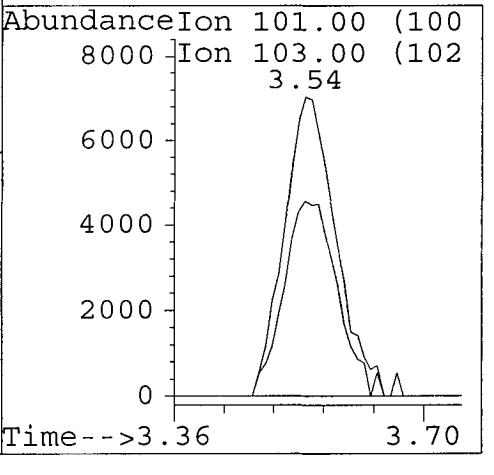




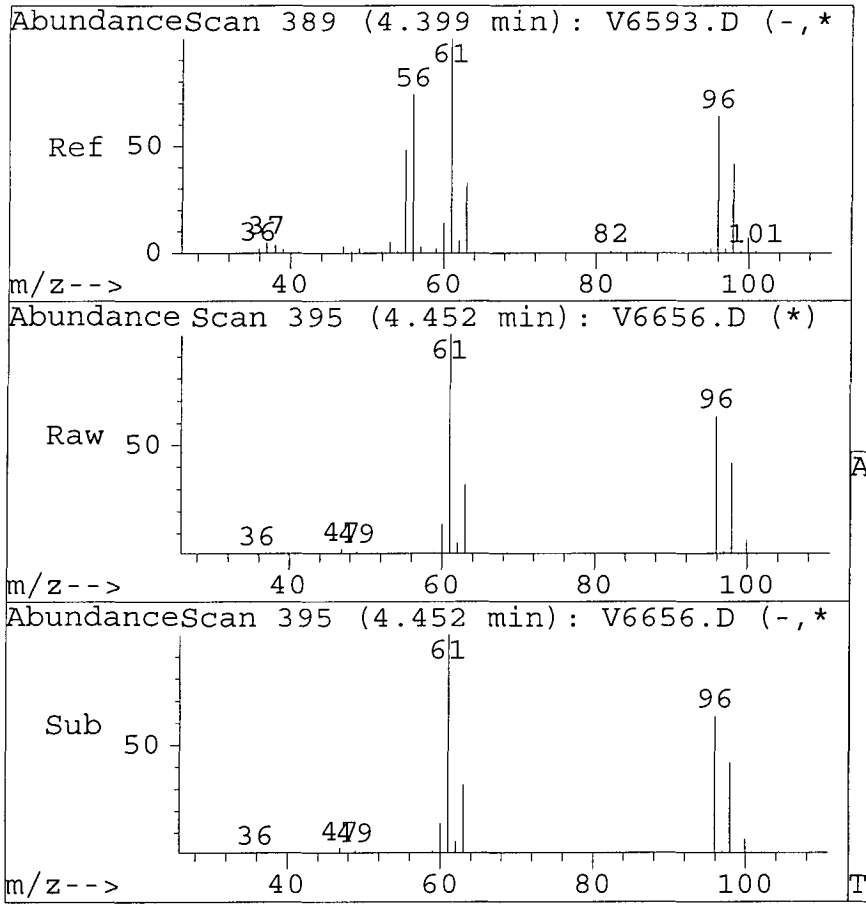
#8
trichlorofluoromethane
Concen: 4.62 ug/L
RT: 3.54 min Scan# 295
Delta R.T. 0.05 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:101 Resp: 35014

Ion	Ratio	Lower	Upper
101	100		
103	64.8	46.4	86.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



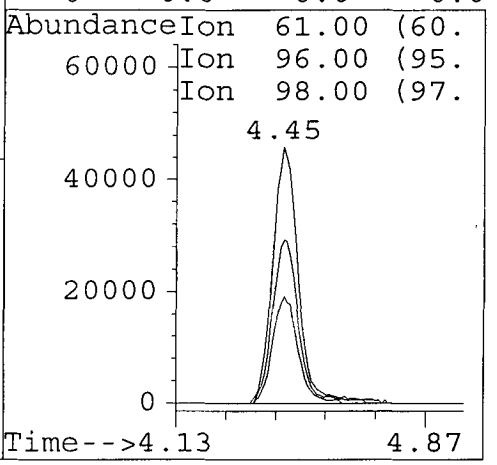
000147

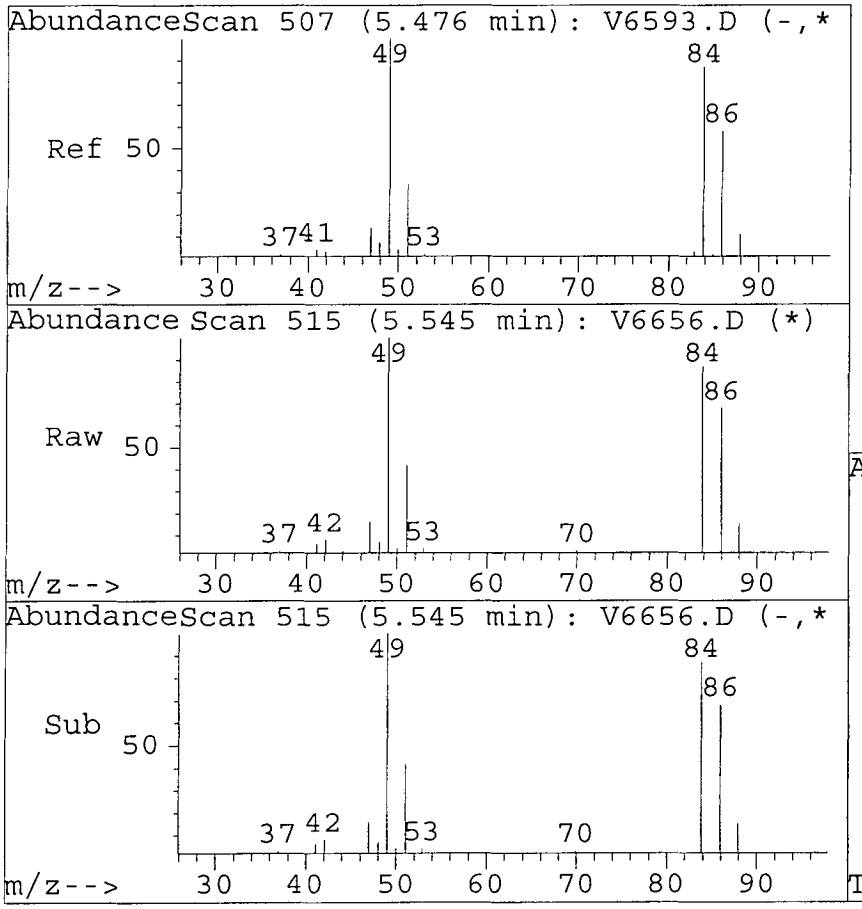


#9
1,1-dichloroethene
Concen: 30.45 ug/L
RT: 4.45 min Scan# 395
Delta R.T. 0.05 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:61 Resp: 243148

Ion	Ratio	Lower	Upper
61	100		
96	63.5	25.8	103.0
98	41.7	25.4	59.2
0	0.0	0.0	0.0

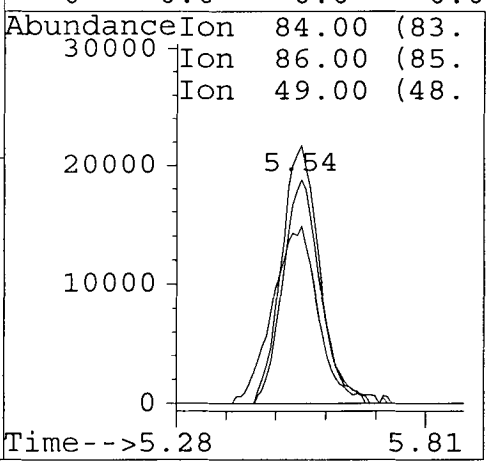




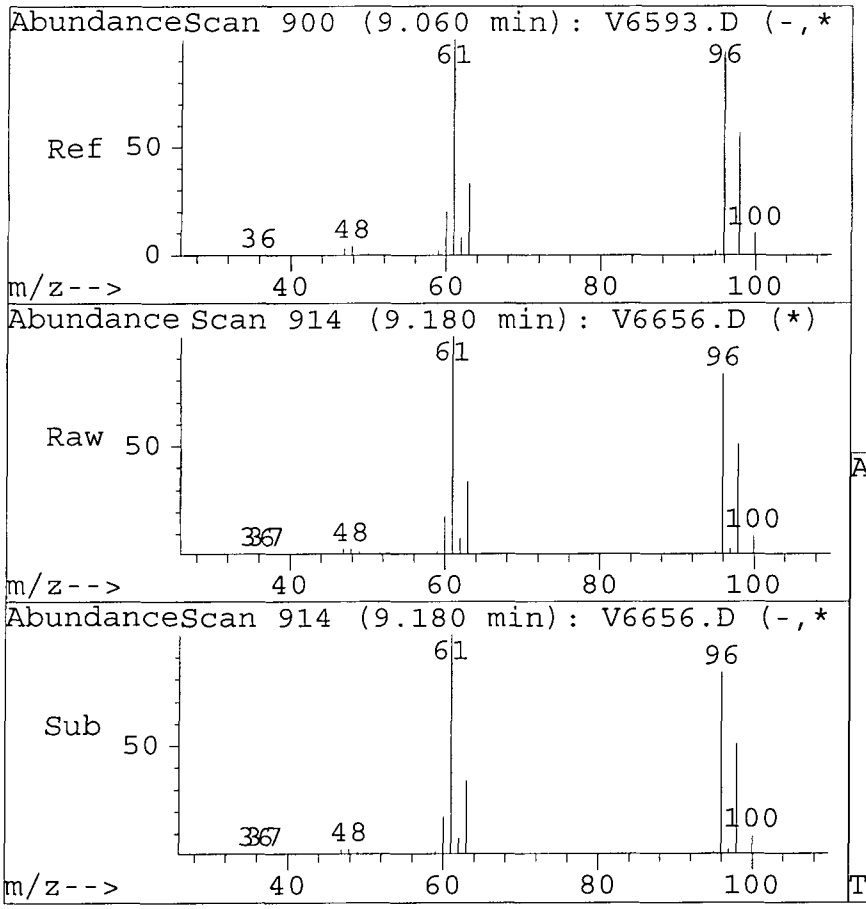
#12
methylene chloride
Concen: 15.66 ug/L
RT: 5.54 min Scan# 515
Delta R.T. 0.07 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:84 Resp: 104754

Ion	Ratio	Lower	Upper
84	100		
86	78.8	47.7	88.7
49	115.6	80.9	150.2
0	0.0	0.0	0.0



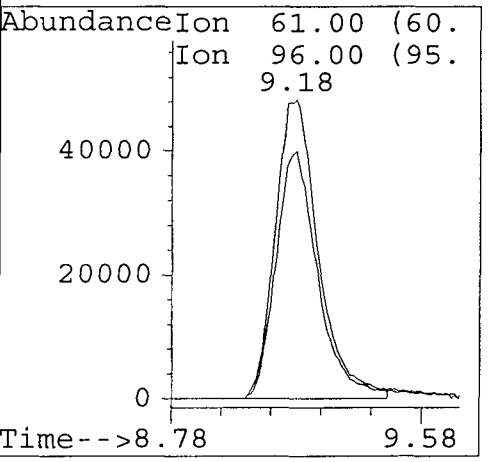
000148

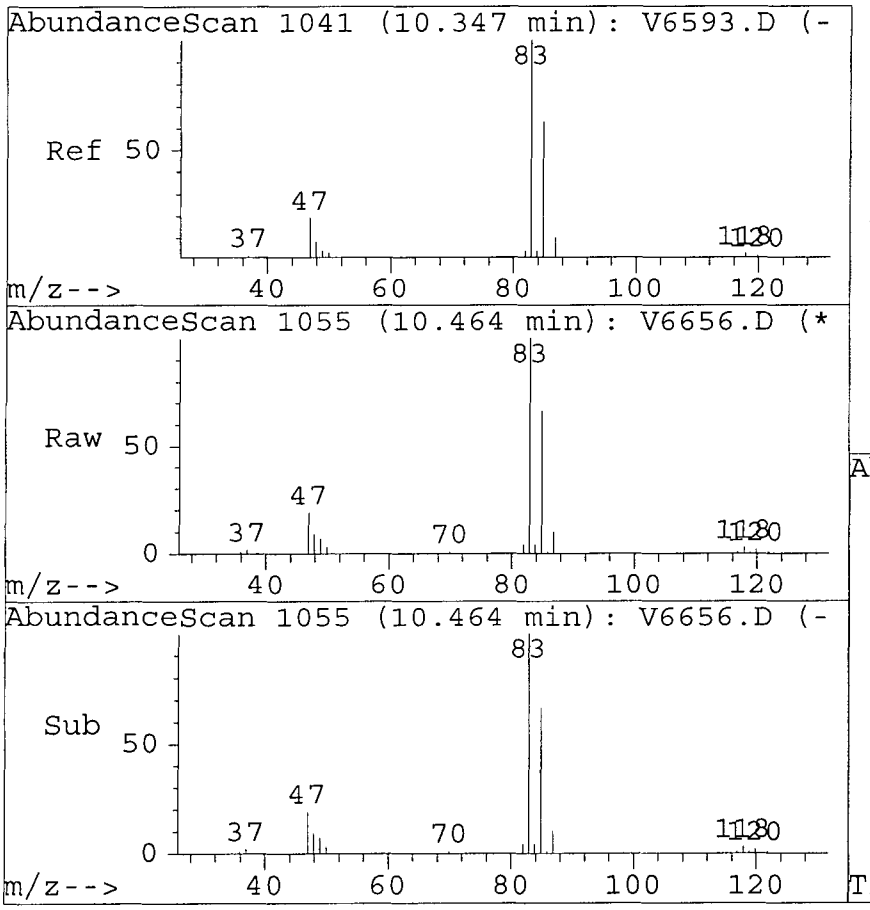


#19
cis-1,2-dichloroethene
Concen: 48.04 ug/L
RT: 9.18 min Scan# 914
Delta R.T. 0.12 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:61 Resp: 465419

Ion	Ratio	Lower	Upper
61	100		
96	82.7	58.2	108.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

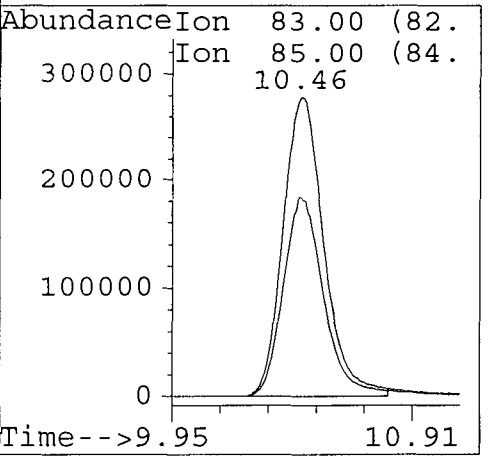


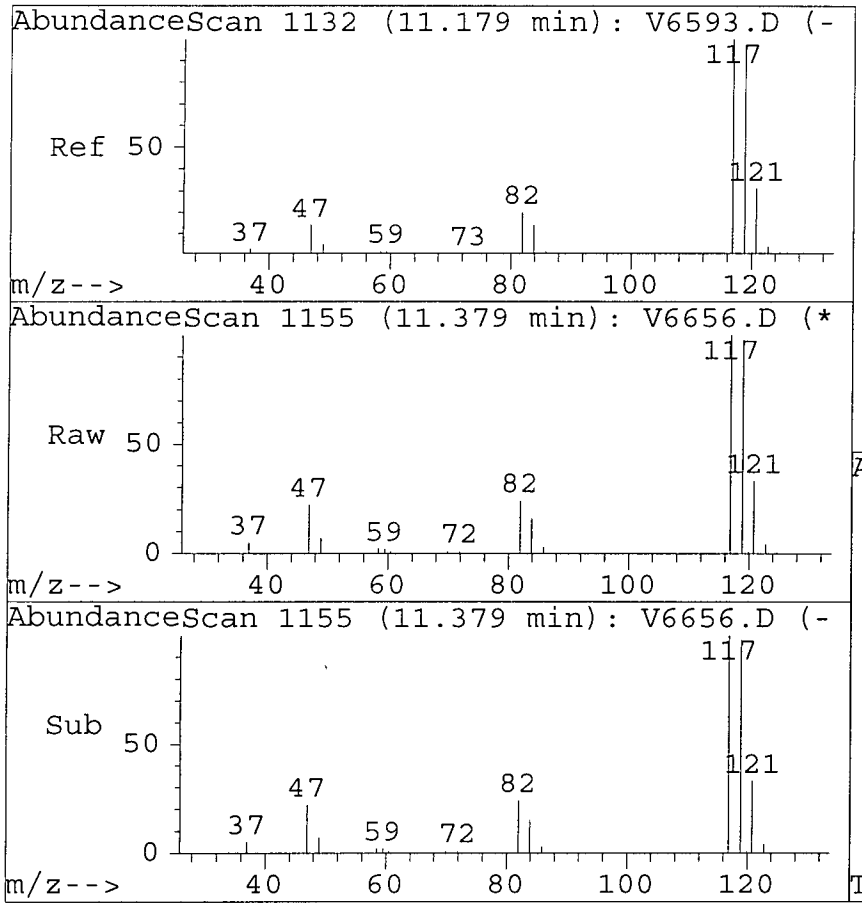


#21
chloroform
Concen: 245.57 ug/L
RT: 10.46 min Scan# 1055
Delta R.T. 0.12 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:83 Resp: 3153052

Ion	Ratio	Lower	Upper
83	100		
85	65.5	44.1	81.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

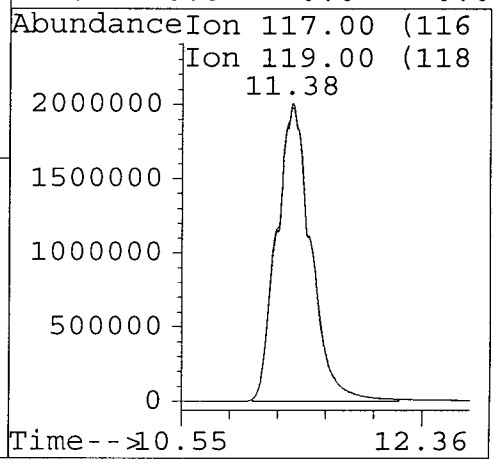


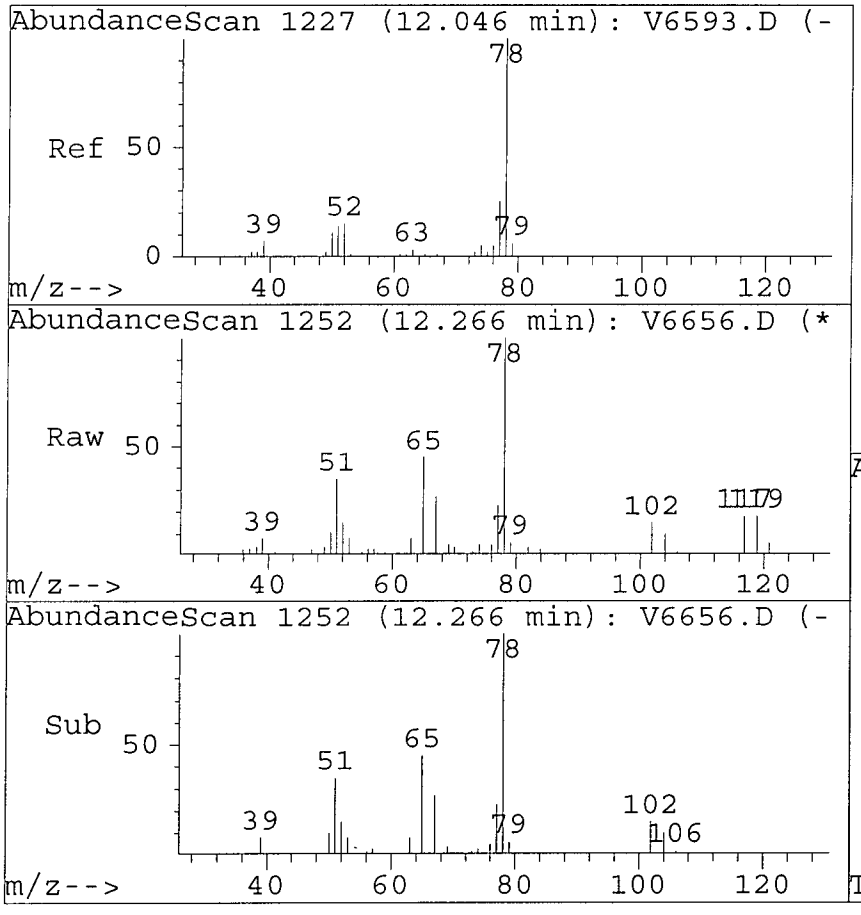


#26
carbon tetrachloride
Concen: 3709.21 ug/L m
RT: 11.38 min Scan# 1155
Delta R.T. 0.20 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:117 Resp:36234864

Ion	Ratio	Lower	Upper
117	100		
119	98.4	67.4	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

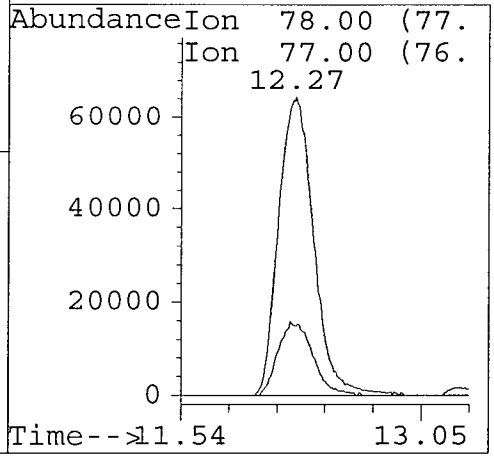




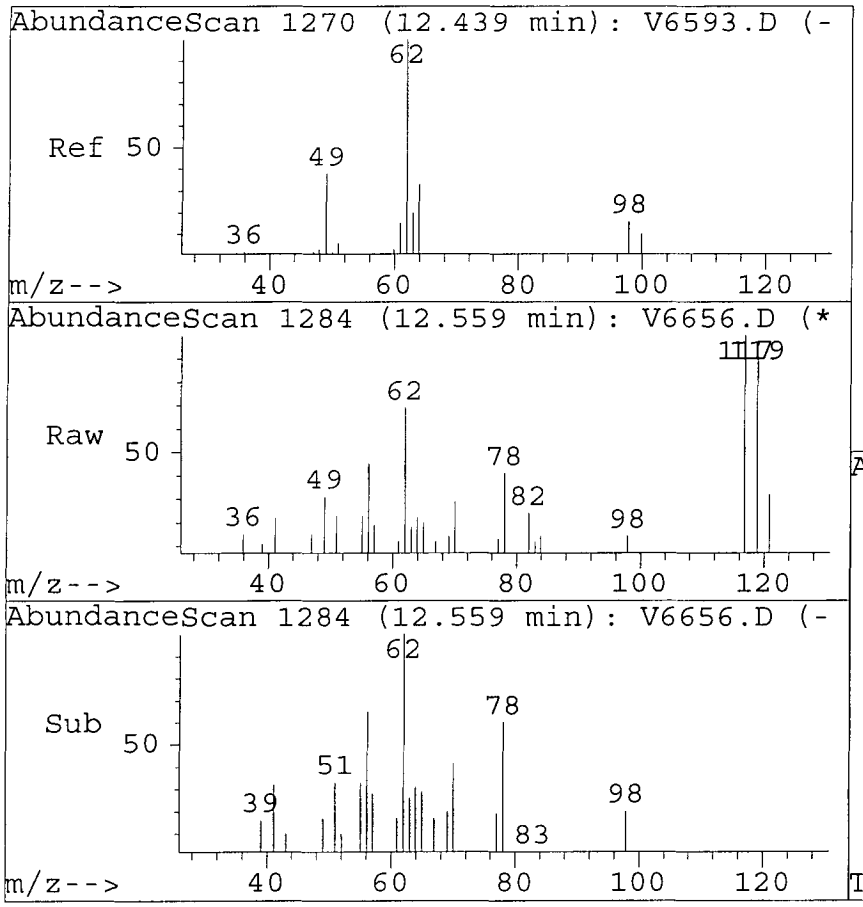
#28
benzene
Concen: 36.72 ug/L m
RT: 12.27 min Scan# 1252
Delta R.T. 0.22 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:78 Resp: 975337

Ion	Ratio	Lower	Upper
78	100		
77	23.1	17.4	32.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



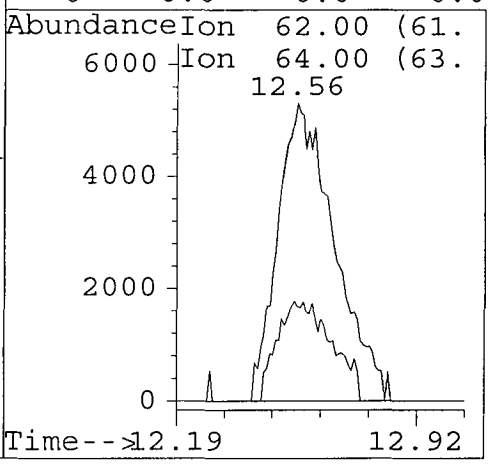
000150

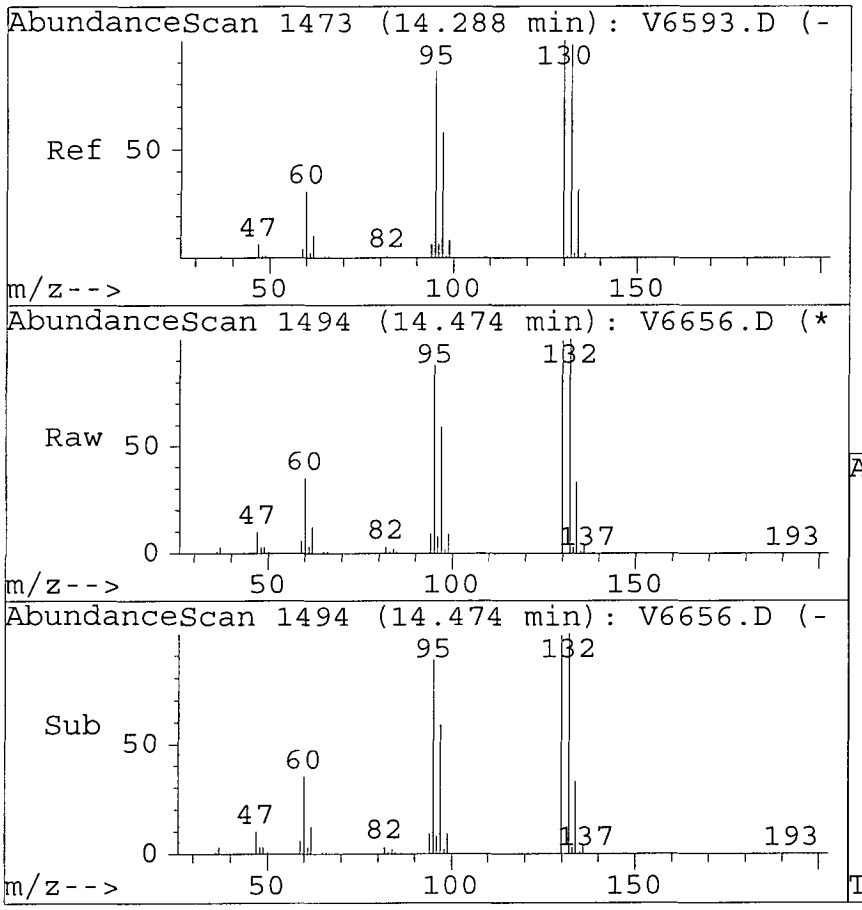


#30
1,2-dichloroethane
Concen: 9.57 ug/L
RT: 12.56 min Scan# 1284
Delta R.T. 0.12 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:62 Resp: 63061

Ion	Ratio	Lower	Upper
62	100		
64	31.4	23.2	43.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

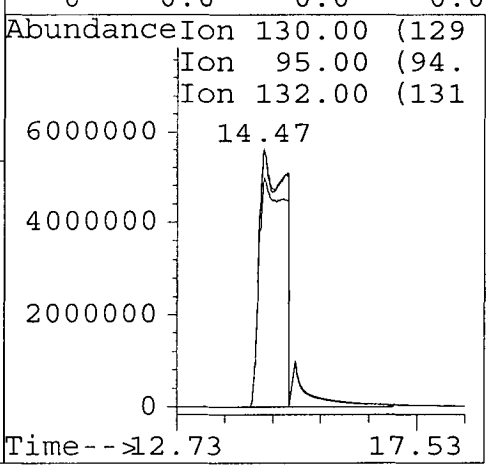




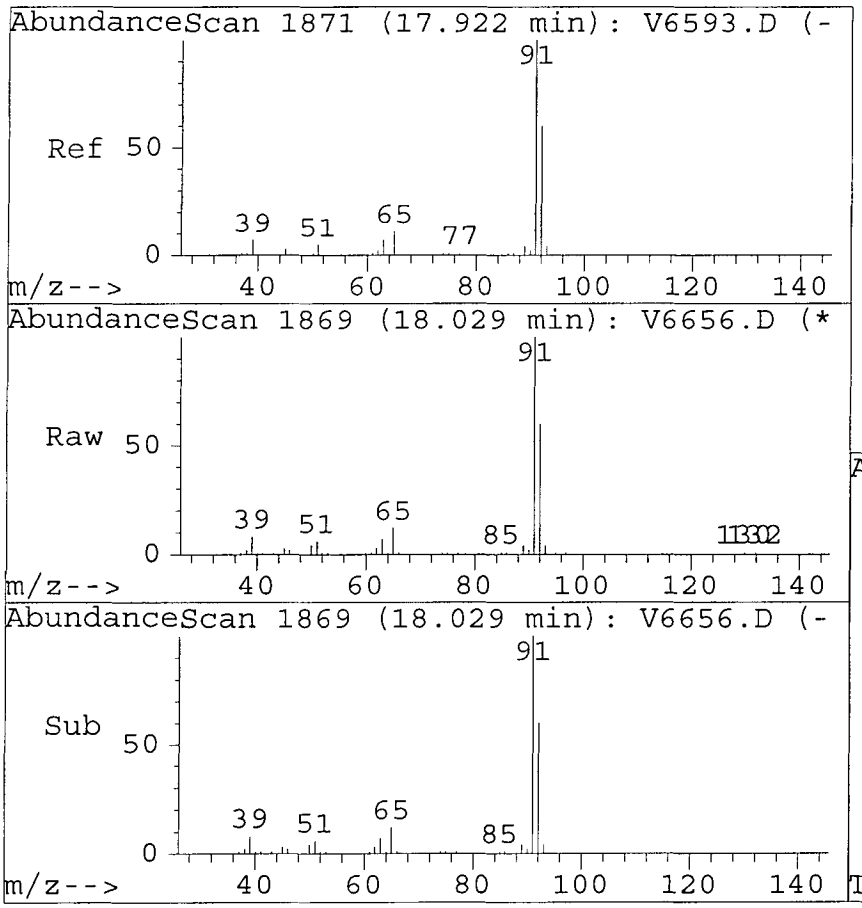
#31
trichloroethene
Concen: 20169.62 ug/L m
RT: 14.47 min Scan# 1494
Delta R.T. 0.19 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:130 Resp:216934924

Ion	Ratio	Lower	Upper
130	100		
95	88.1	60.1	111.7
132	100.5	68.5	127.3
0	0.0	0.0	0.0



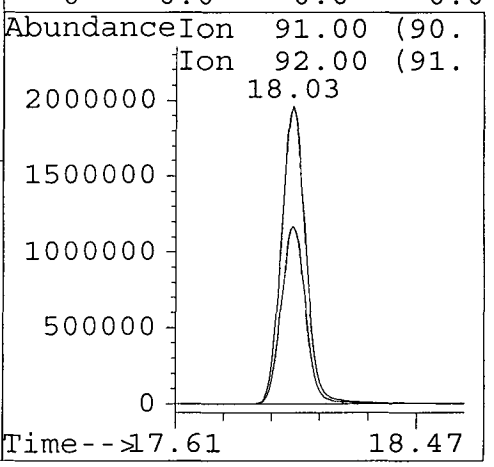
000151

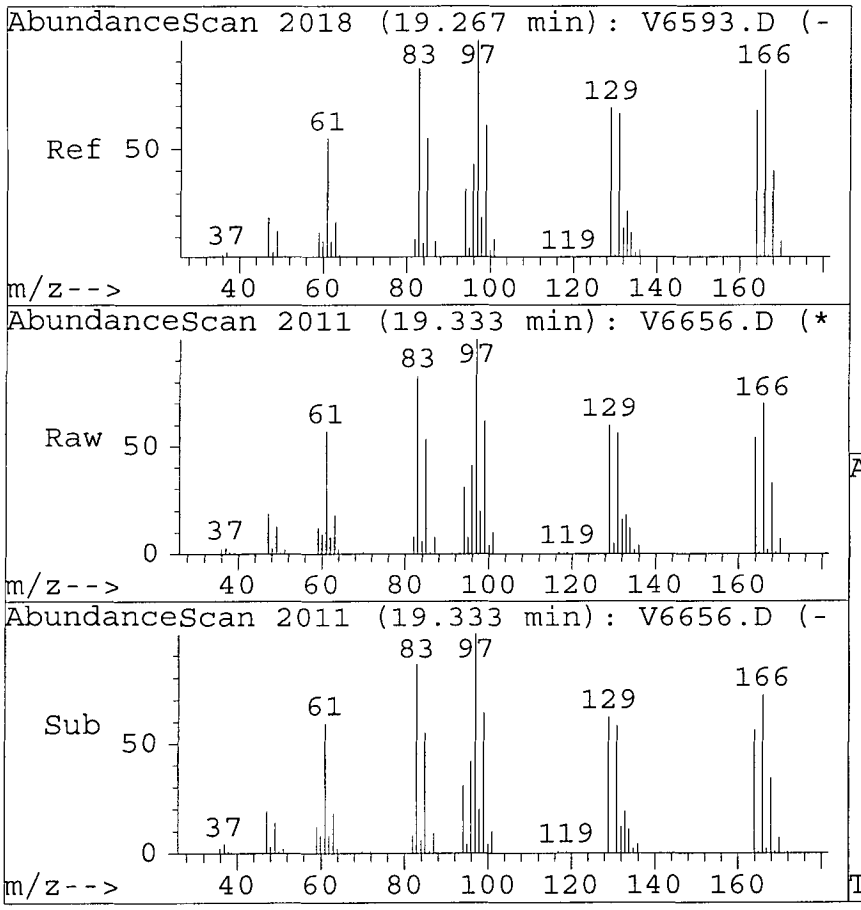


#38
toluene
Concen: 367.52 ug/L
RT: 18.03 min Scan# 1869
Delta R.T. 0.11 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:91 Resp:11666483

Ion	Ratio	Lower	Upper
91	100		
92	59.6	42.1	78.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

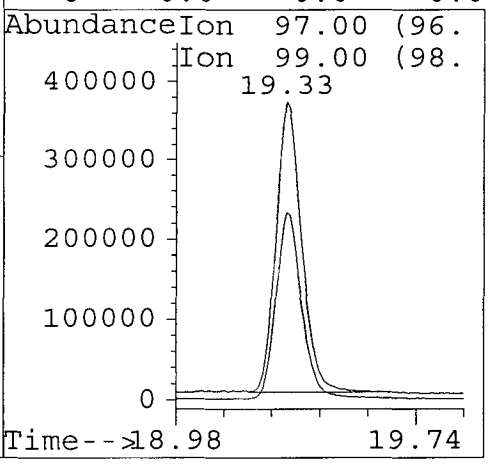




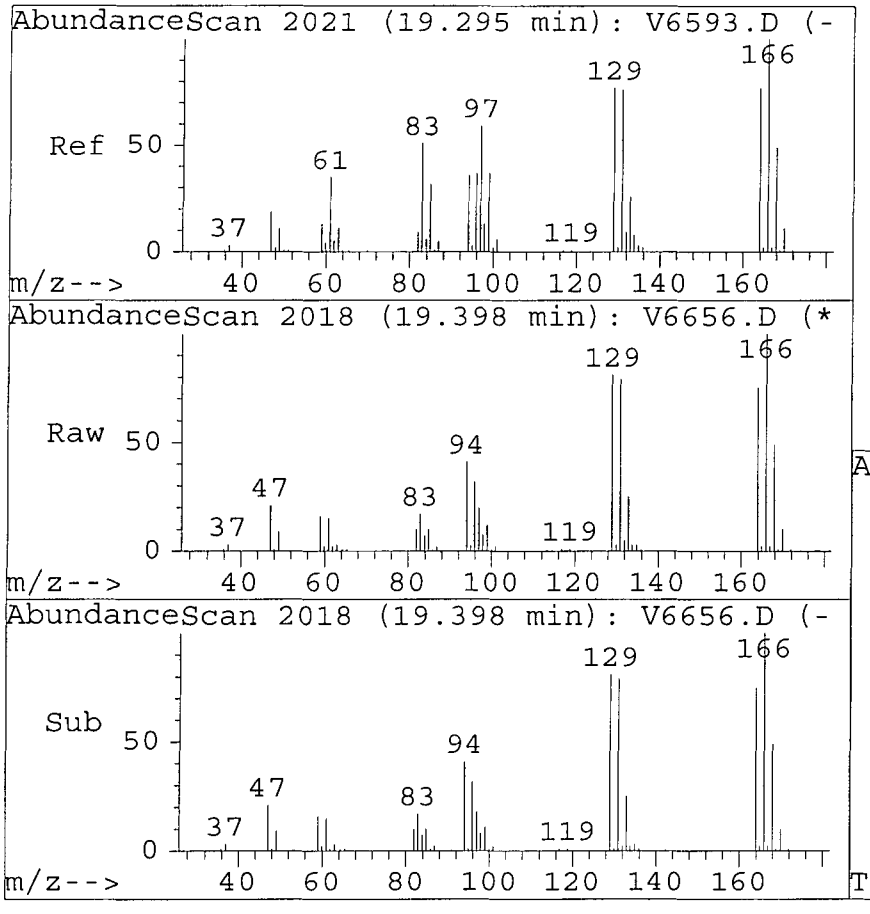
#40
1,1,2-trichloroethane
Concen: 236.26 ug/L
RT: 19.33 min Scan# 2011
Delta R.T. 0.07 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:97 Resp: 2015885

Ion	Ratio	Lower	Upper
97	100		
99	62.2	42.6	79.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



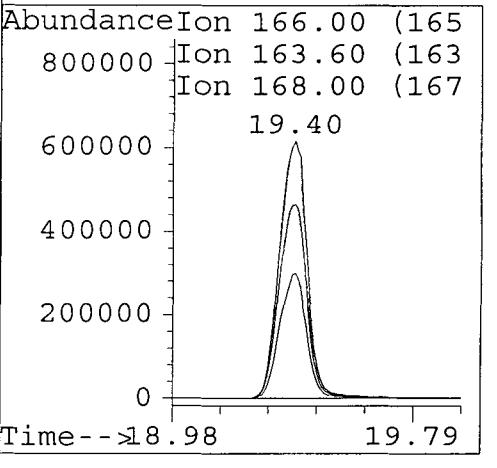
000152

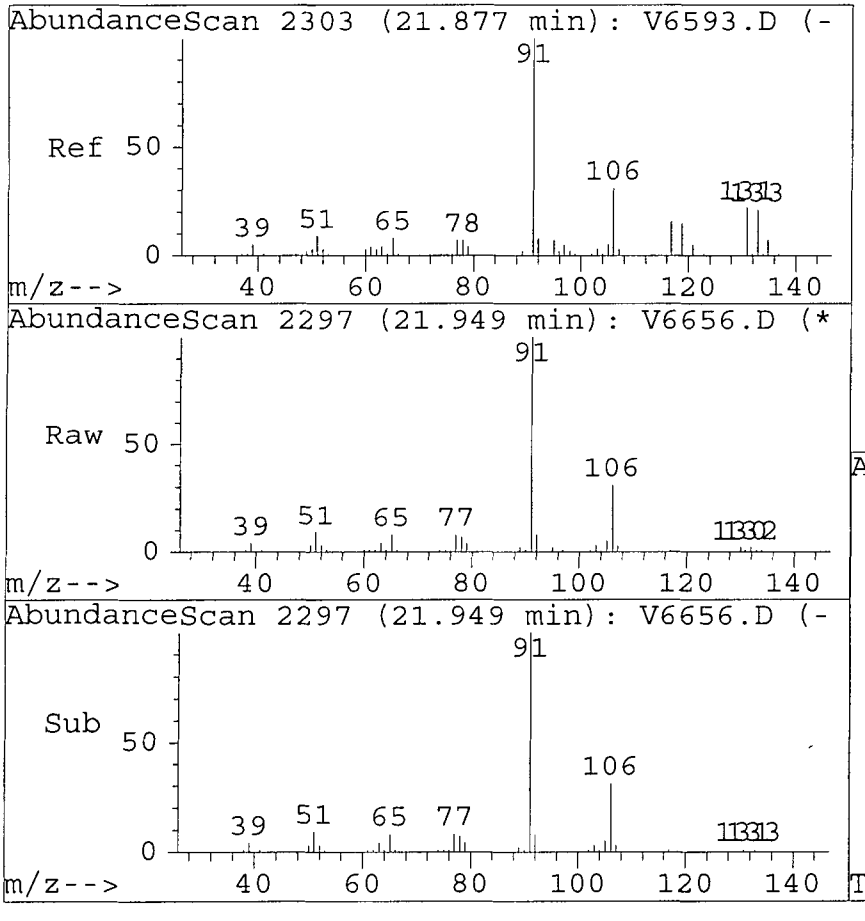


#44
tetrachloroethene
Concen: 392.55 ug/L
RT: 19.40 min Scan# 2018
Delta R.T. 0.10 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:166 Resp: 3945366

Ion	Ratio	Lower	Upper
166	100		
164	75.5	54.1	100.5
168	48.5	34.3	63.7
0	0.0	0.0	0.0

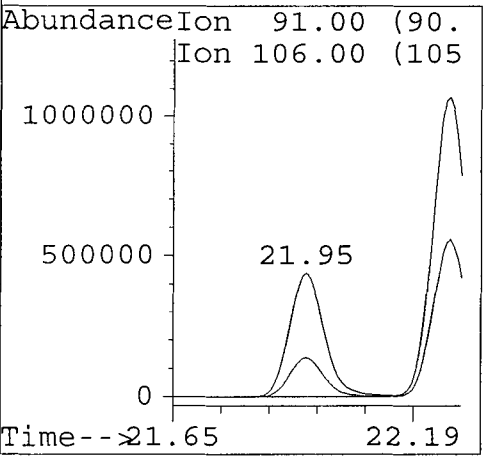




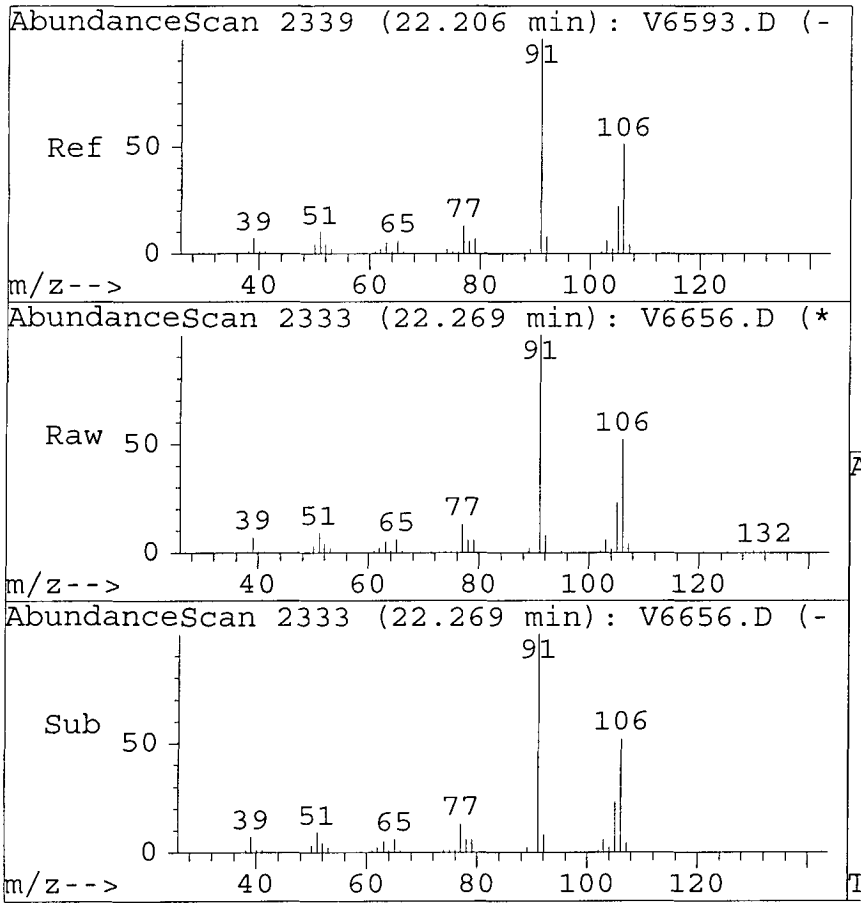
#51
ethylbenzene
Concen: 65.96 ug/L
RT: 21.95 min Scan# 2297
Delta R.T. 0.07 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:91 Resp: 2395078

Ion	Ratio	Lower	Upper
91	100		
106	31.2	21.4	39.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



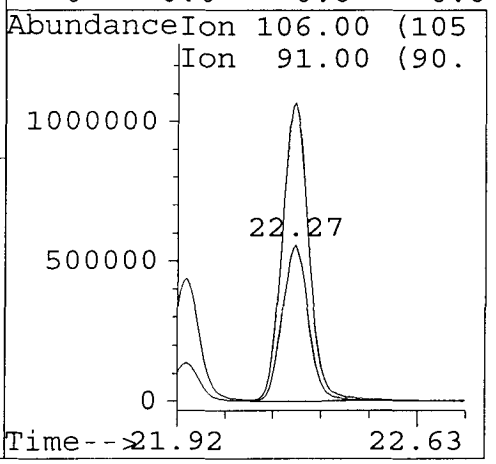
000153

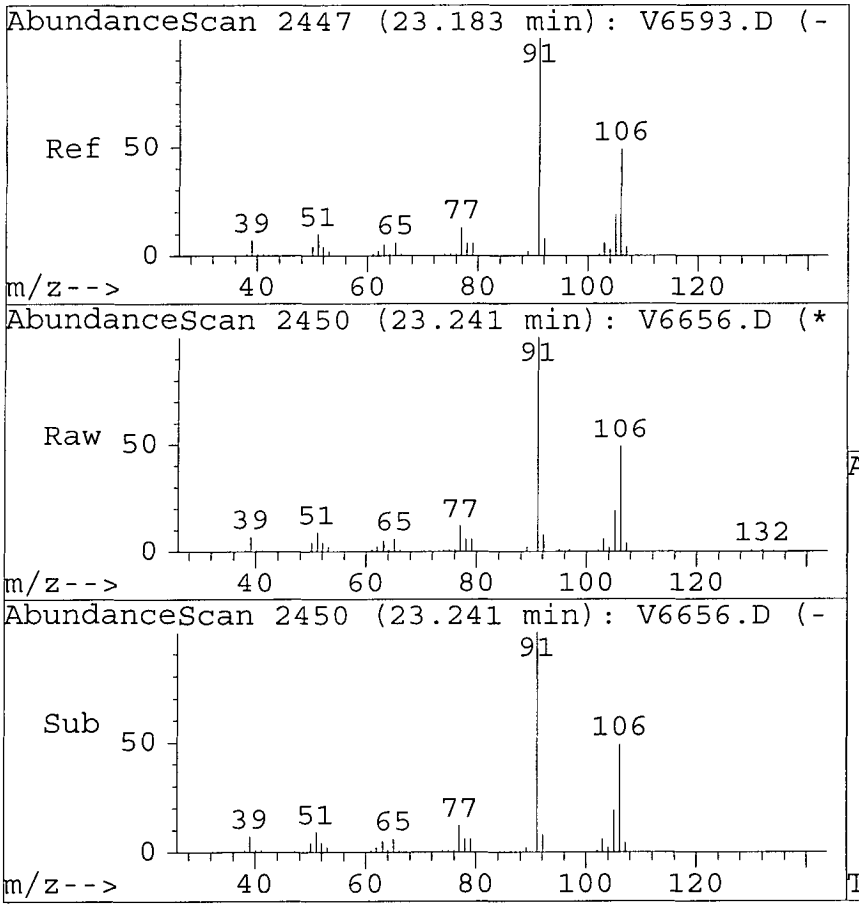


#52
m&p-xylenes
Concen: 219.74 ug/L
RT: 22.27 min Scan# 2333
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:106 Resp: 3006413

Ion	Ratio	Lower	Upper
106	100		
91	191.0	137.4	255.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

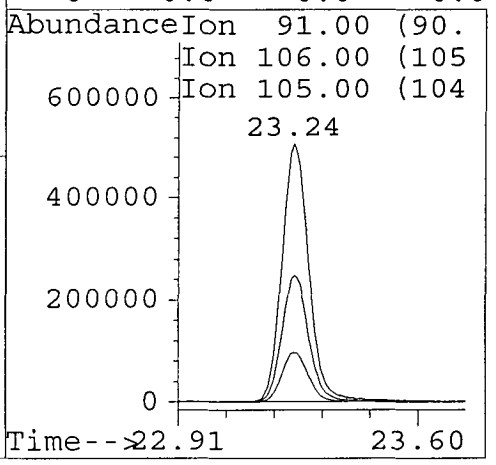




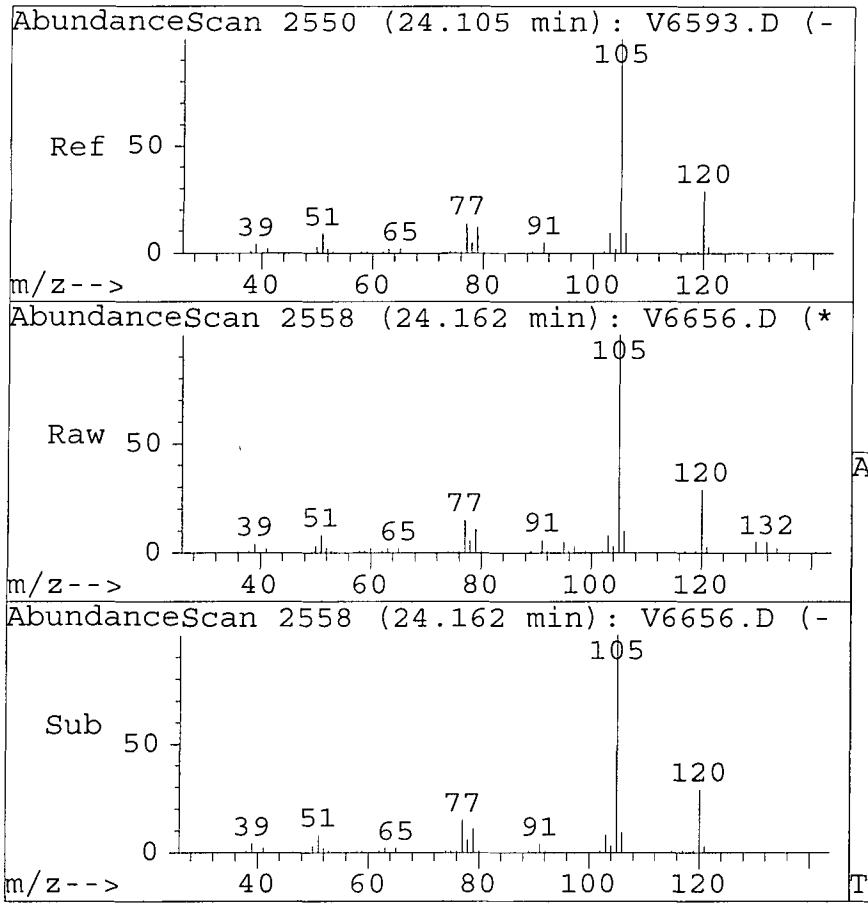
#53
o-xylene
Concen: 95.76 ug/L
RT: 23.24 min Scan# 2450
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:91 Resp: 2707626

Ion	Ratio	Lower	Upper
91	100		
106	48.8	34.4	64.0
105	19.1	13.5	25.1
0	0.0	0.0	0.0



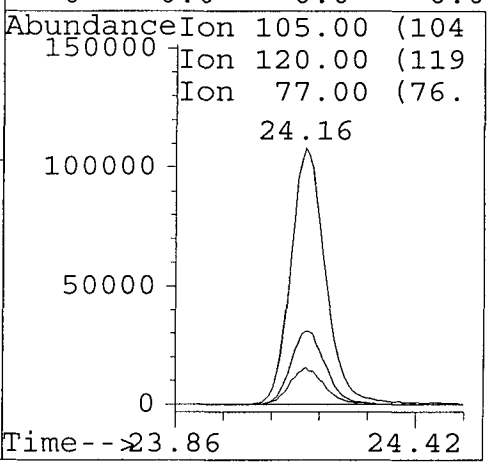
000154

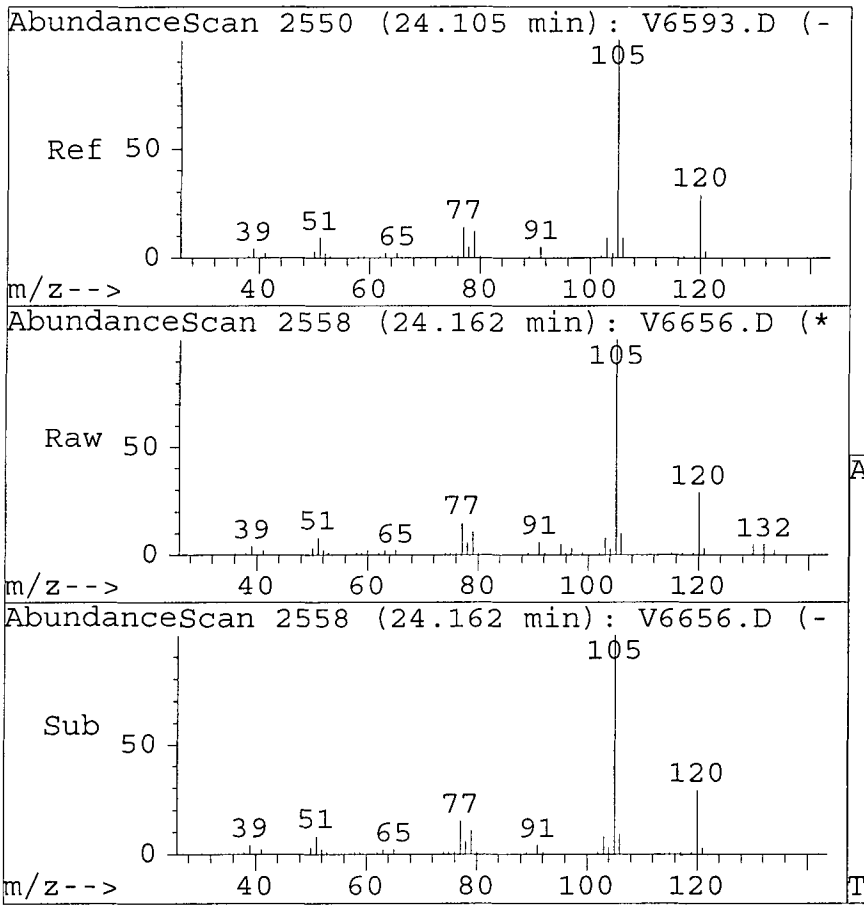


#57
isopropylbenzene
Concen: 15.81 ug/L
RT: 24.16 min Scan# 2558
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:105 Resp: 606468

Ion	Ratio	Lower	Upper
105	100		
120	28.5	20.1	37.3
77	14.6	10.1	18.7
0	0.0	0.0	0.0

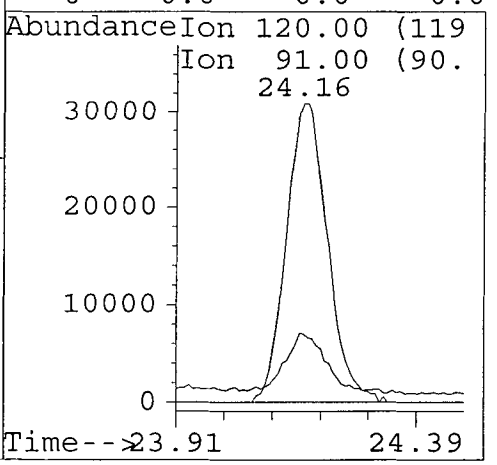




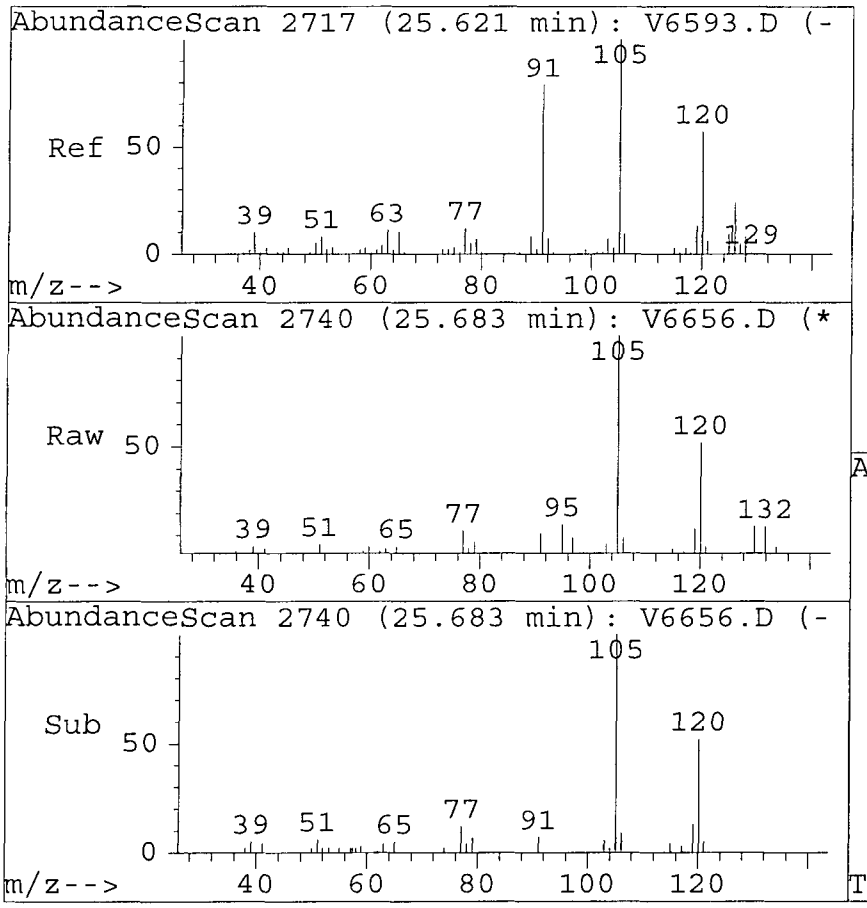
#61
n-propylbenzene
Concen: 15.89 ug/L
RT: 24.16 min Scan# 2558
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:120 Resp: 173970

Ion	Ratio	Lower	Upper
120	100		
91	22.6	12.9	24.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



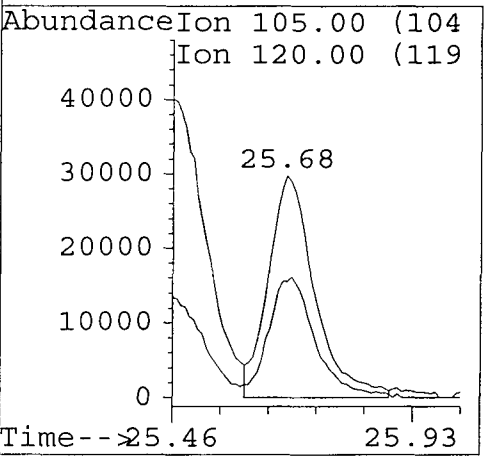
000155

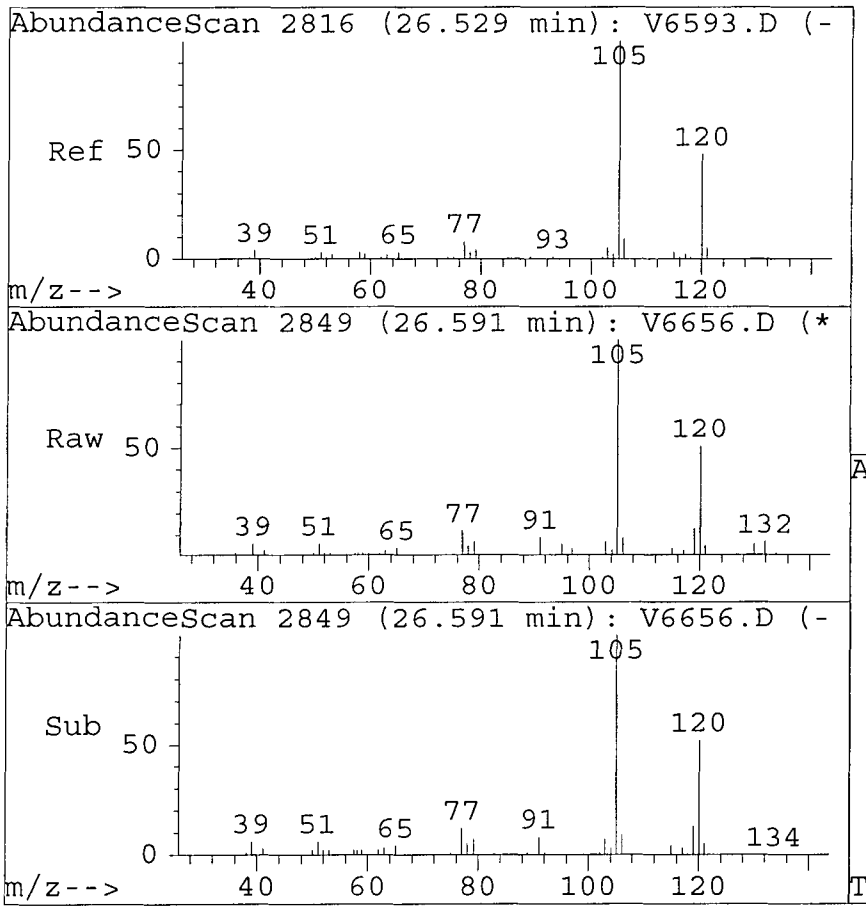


#64
1,3,5-trimethylbenzene
Concen: 6.12 ug/L
RT: 25.68 min Scan# 2740
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:105 Resp: 187022

Ion	Ratio	Lower	Upper
105	100		
120	52.2	39.8	74.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

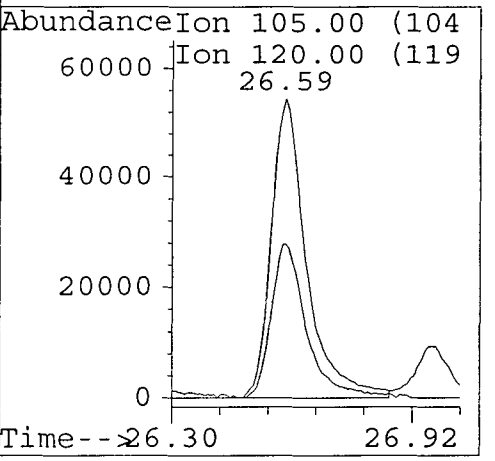




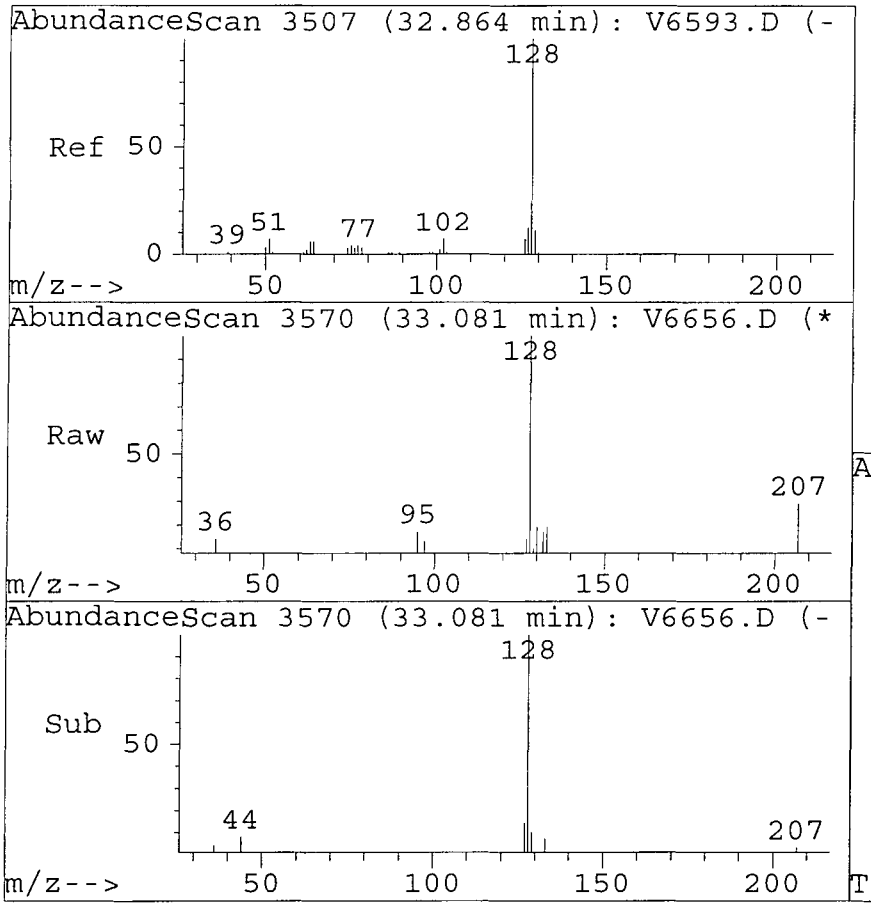
#66
1,2,4-trimethylbenzene
Concen: 11.36 ug/L
RT: 26.59 min Scan# 2849
Delta R.T. 0.06 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:105 Resp: 348636

Ion	Ratio	Lower	Upper
105	100		
120	50.9	36.1	67.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0



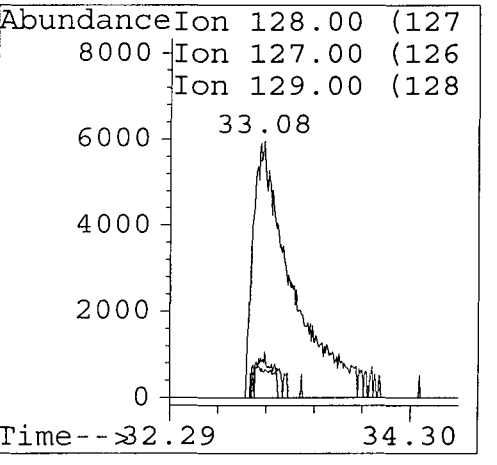
000156



#76
naphthalene
Concen: 4.19 ug/L m
RT: 33.08 min Scan# 3570
Delta R.T. 0.22 min
Lab File: V6656.D
Acq: 24 May 99 4:59 pm

Tgt Ion:128 Resp: 137061

Ion	Ratio	Lower	Upper
128	100		
127	13.6	8.5	15.7
129	9.9	7.8	14.4
0	0.0	0.0	0.0



000157

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6672.D
Acq Time : 25 May 99 7:20 am
Sample : 11807NJ-73325 1:5000 DIL
Misc : 5ML
Quant Time: May 25 7:59 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.17	96	1671518	50.00 ug/L	0.02
42) Chlorobenzene-d5	21.57	117	1666159	50.00 ug/L	0.02
56) 1,4-dichlorobenzene-d4	27.42	152	843320	50.00 ug/L	0.03
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.00	113	712769	50.60 ug/L	101.19%
29) 1,2-Dichlorethane-d4	12.19	65	391122	51.79 ug/L	103.57%
37) Toluene-d8	17.77	98	1948593	52.41 ug/L	104.81%
41) 4-Bromofluorobenzene	24.59	95	1204933	49.91 ug/L	99.82%
Target Compounds					Qvalue
26) carbon tetrachloride	11.21	117	20450	1.79 ug/L	98
31) trichloroethene	14.30	130	1820787	144.46 ug/L	99

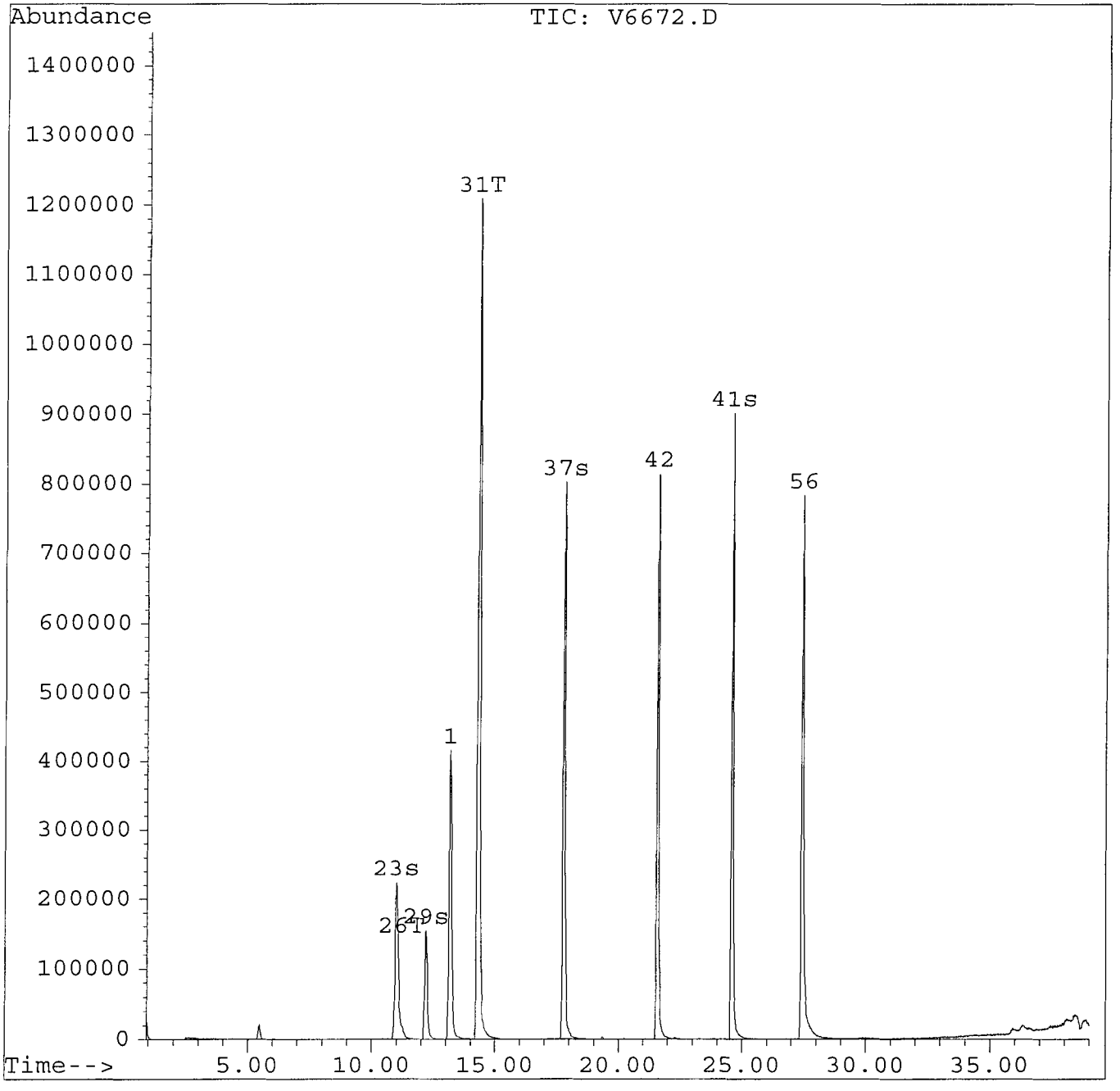
(#) = qualifier out of range (m) = manual integration

Quantitation Report

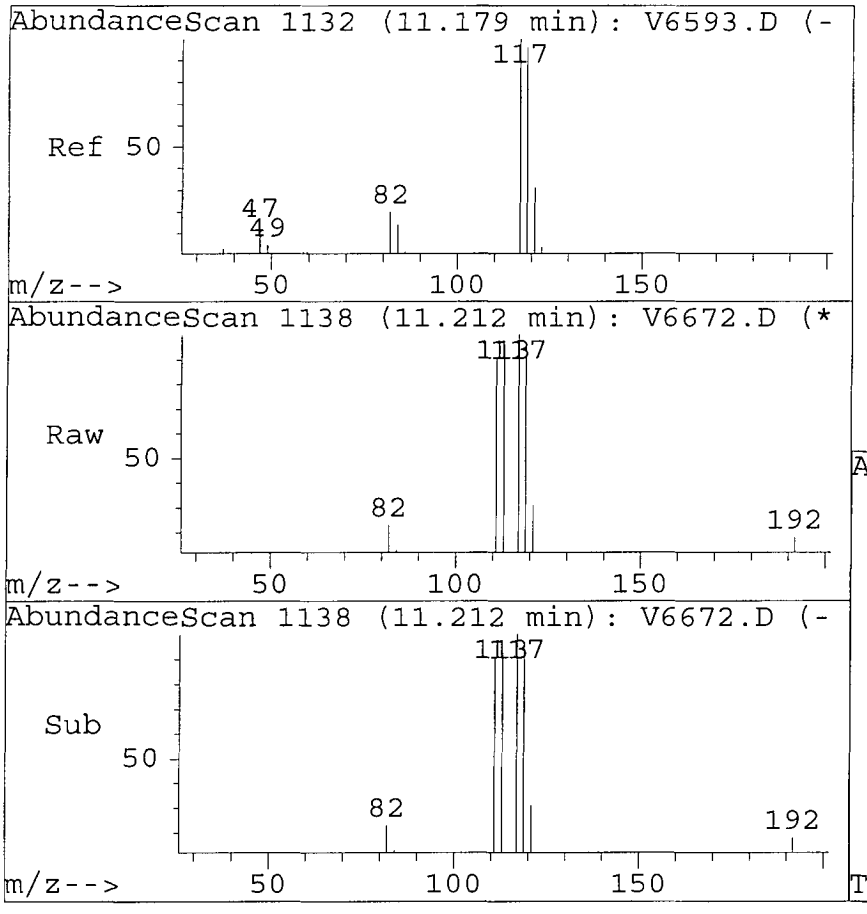
Data File : D:\HPCHEM\1\DATA\V1052499\V6672.D
Acq Time : 25 May 99 7:20 am
Sample : 11807NJ-73325 1:5000 DIL
Misc : 5ML
Quant Time: May 25 7:59 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



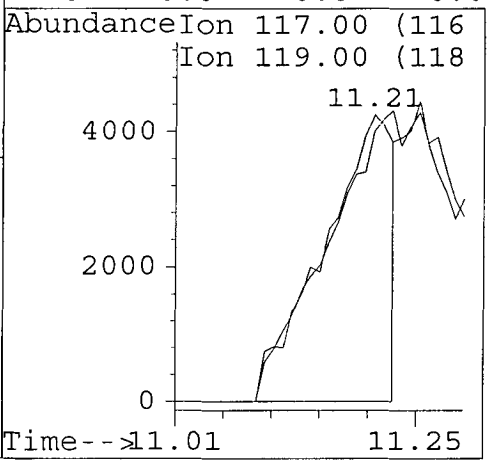
000159

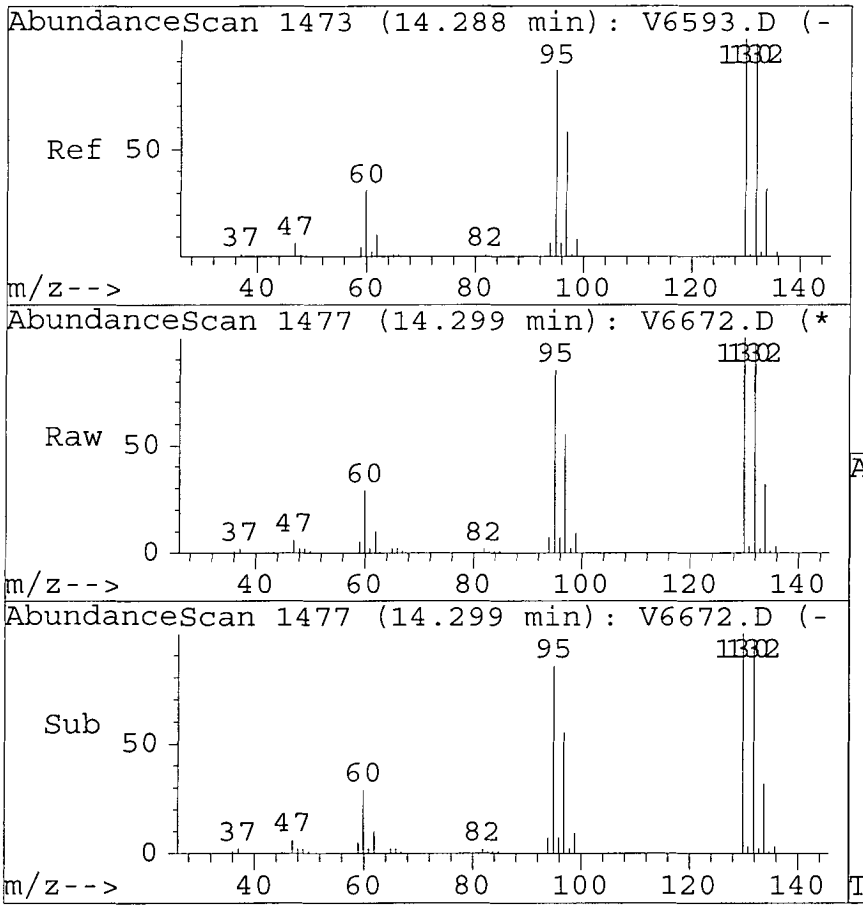


#26
carbon tetrachloride
Concen: 1.79 ug/L
RT: 11.21 min Scan# 1138
Delta R.T. 0.03 min
Lab File: V6672.D
Acq: 25 May 99 7:20 am

Tgt Ion:117 Resp: 20450

Ion	Ratio	Lower	Upper
117	100		
119	94.5	67.4	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

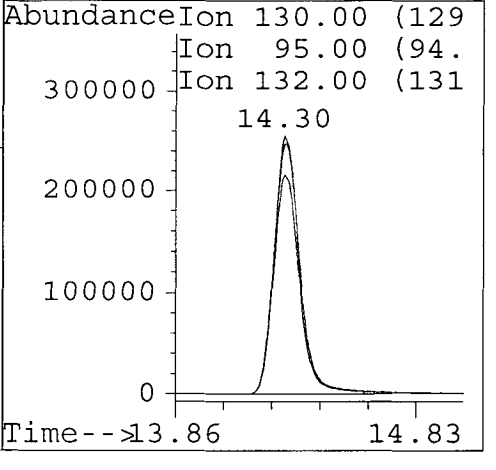




#31
trichloroethene
Concen: 144.46 ug/L
RT: 14.30 min Scan# 1477
Delta R.T. 0.01 min
Lab File: V6672.D
Acq: 25 May 99 7:20 am

Tgt Ion:130 Resp: 1820787

Ion	Ratio	Lower	Upper
130	100		
95	84.5	60.1	111.7
132	96.5	68.5	127.3
0	0.0	0.0	0.0



000160

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6650.D
Acq Time : 24 May 99 12:22 pm
Sample : 11807NJ-73326
Misc : 5ML
Quant Time: May 24 17:23 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.19	96	1590310	50.00 ug/L	0.05
42) Chlorobenzene-d5	21.58	117	1556259	50.00 ug/L	0.04
56) 1,4-dichlorobenzene-d4	27.44	152	717240	50.00 ug/L	0.04
System Monitoring Compounds					**%Recovery**
23) Dibromofluoromethane	11.02	113	683737	51.01 ug/L	102.03%
29) 1,2-Dichlorethane-d4	12.21	65	383823	53.42 ug/L	106.83%
37) Toluene-d8	17.79	98	1827906	51.67 ug/L	103.34%
41) 4-Bromofluorobenzene	24.60	95	1119765	48.75 ug/L	97.50%

Target Compounds Qvalue

000161

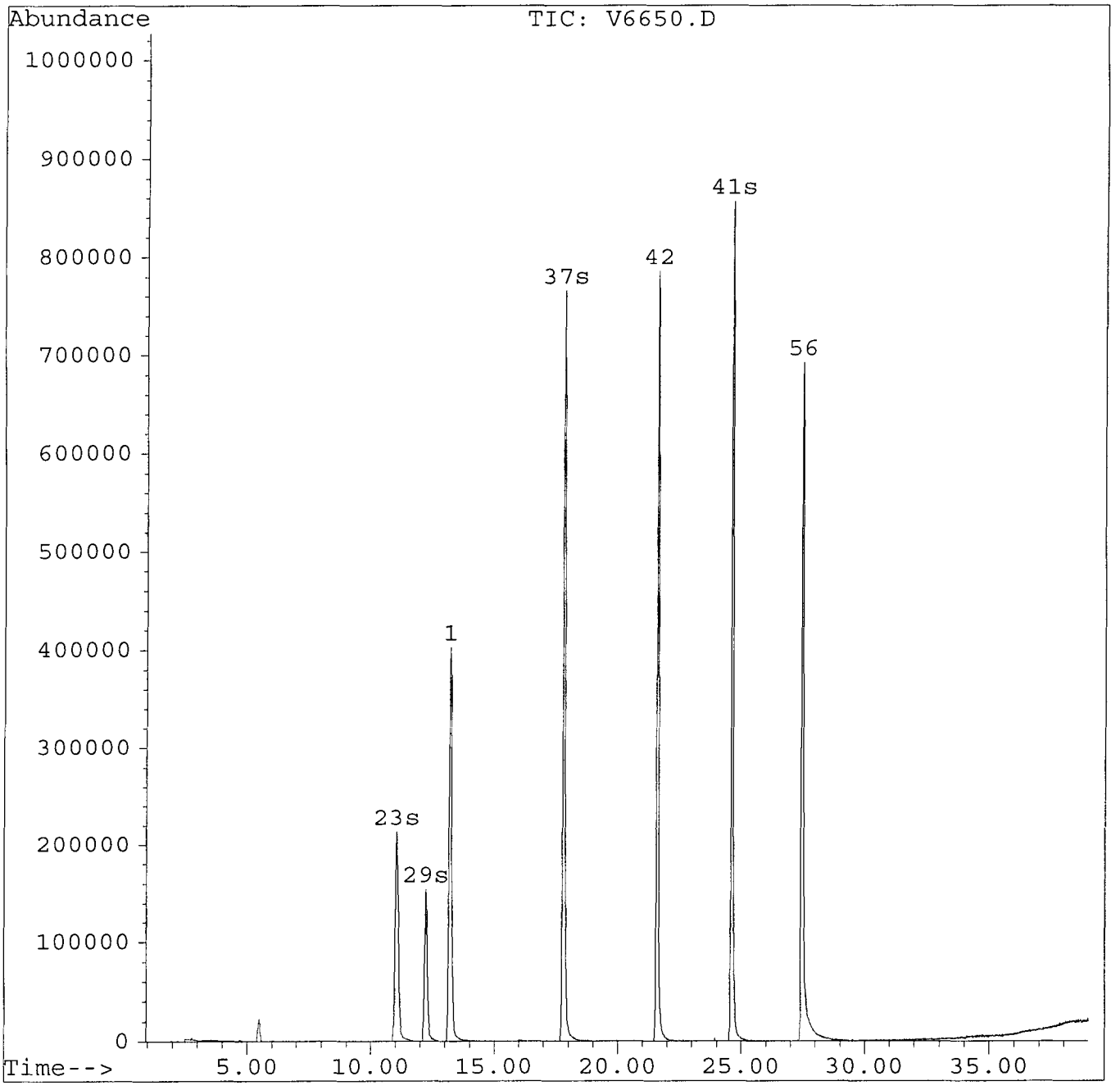
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6650.D
Acq Time : 24 May 99 12:22 pm
Sample : 11807NJ-73326
Misc : 5ML
Quant Time: May 24 17:23 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



000162

Quantitation Report

JJ 5-24-99

Data File : D:\HPCHEM\1\DATA\V1052499\V6647.D
Acq Time : 24 May 99 9:54 am
Sample : PRO BLK
Misc : 5ML
Quant Time: May 24 10:35 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.21	96	1639218	50.00 ug/L	0.07
42) Chlorobenzene-d5	21.59	117	1656770	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.44	152	788944	50.00 ug/L	0.05
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.04	113	737577	53.39 ug/L	106.78%
29) 1,2-Dichlorethane-d4	12.23	65	402567	54.35 ug/L	108.71%
37) Toluene-d8	17.80	98	1952895	53.56 ug/L	107.12%
41) 4-Bromofluorobenzene	24.60	95	1211936	51.19 ug/L	102.37%
Target Compounds					Qvalue

000163

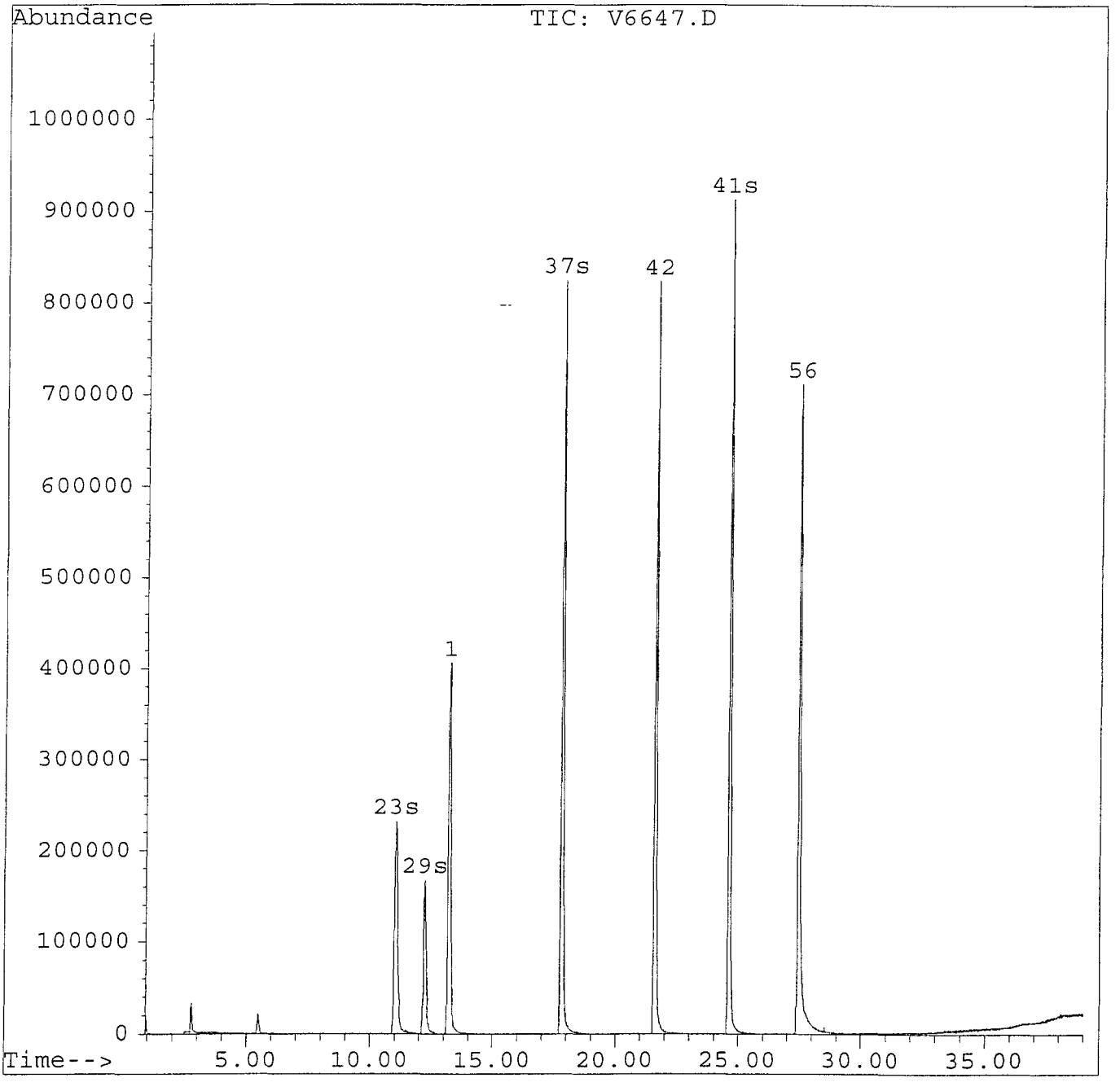
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6647.D
Acq Time : 24 May 99 9:54 am
Sample : PRO BLK
Misc : 5ML
Quant Time: May 24 10:35 1999

Operator: JJ
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



000164

Quantitation Report

JJ 5-25-99

Data File : D:\HPCHEM\1\DATA\V1052499\V6662.D
Acq Time : 24 May 99 10:47 pm
Sample : PRO BLK
Misc : 5ML
Quant Time: May 25 6:19 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	13.20	96	1641624	50.00 ug/L	0.05
42) Chlorobenzene-d5	21.58	117	1627719	50.00 ug/L	0.03
56) 1,4-dichlorobenzene-d4	27.43	152	782341	50.00 ug/L	0.03
System Monitoring Compounds					**%Recovery**
23) Dibromofluoromethane	11.04	113	676201	48.88 ug/L	97.75%
29) 1,2-Dichlorethane-d4	12.22	65	368626	49.70 ug/L	99.39%
37) Toluene-d8	17.80	98	1824974	49.98 ug/L	99.95%
41) 4-Bromofluorobenzene	24.59	95	1172551	49.45 ug/L	98.90%

Target Compounds Qvalue

000165

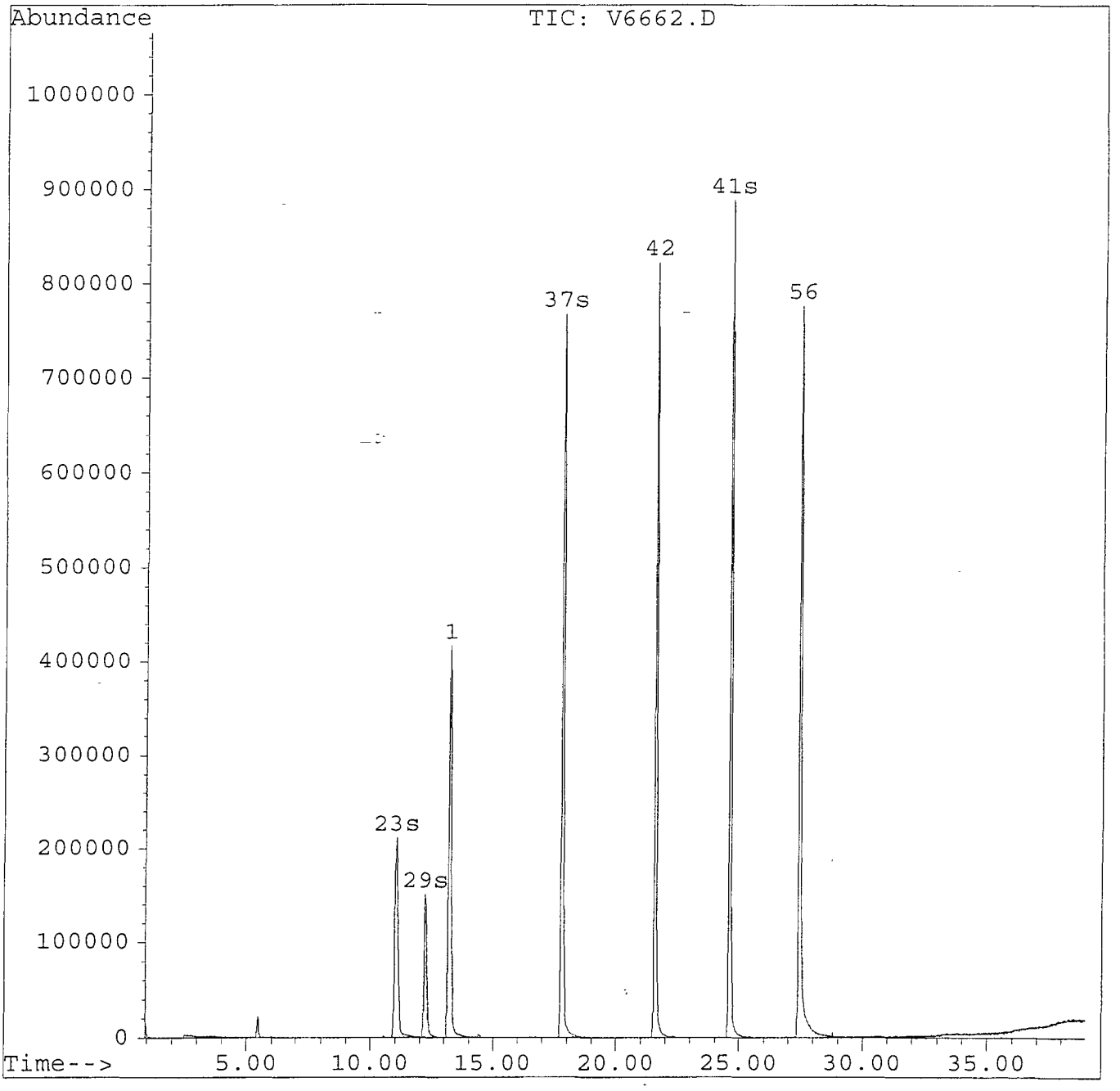
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1052499\V6662.D
Acq Time : 24 May 99 10:47 pm
Sample : PRO BLK
Misc : 5ML
Quant Time: May 25 6:19 1999

Operator: AV
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\OLDMETH\V10518CW.M
Title : 8260B VOA
Last Update : Tue May 18 18:24:58 1999
Response via : Multiple Level Calibration



000166

IV.

METALS DATA

A.

ANALYTICAL RESULTS SUMMARY

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-002

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73319S

Level (low/med): LOW Date Received: 05/21/99

% 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	590			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	22.6	B		P
7439-89-6	Iron	2110			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	455			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	83.0			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-002-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73327S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	1960			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-004

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73321S

Level (low/med): LOW Date Received: 05/21/99

% 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	572			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	13.8	B		P
7439-89-6	Iron	727			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	88.0			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	52.2			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-004-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73328S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	319			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-007

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73324S

Level (low/med): LOW Date Received: 05/21/99

% 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	36.4	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	9.3	B		P
7439-89-6	Iron	20.0	U		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	28.4			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-007-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73329S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	20.0	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-008

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73330S

Level (low/med): LOW Date Received: 05/21/99

% 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	255			P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	12.5	B		P
7439-89-6	Iron	717			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	218			P
7439-97-6	Mercury				NR
7440-66-6	Zinc	17.1	B		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-008-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73325S

Level (low/med): LOW Date Received: 05/21/99

% Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7439-89-6	Iron	330			P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments: DISSOLVED METALS

ANALYSIS REPORT
1

INORGANIC ANALYSIS DATA SHEET

CLIENT SAMPLE #

DO-0018-06-FIELD BLANK

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Lab Sample ID: 73326S

Level (low/med): LOW Date Received: 05/21/99

% 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	21.4	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	1.0	U		P
7439-89-6	Iron	20.0	U		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	1.4	B		P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

B.

BLANK RESULTS SUMMARY

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	8.7	B	13.5	B	23.6	B	23.0	B	13.690	B	P
Arsenic	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Cadmium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	-1.2	B	-1.2	B	-1.2	B	-1.4	B	-1.110	B	P
Iron	20.0	U	20.0	U	20.0	U	20.0	U	20.000	U	P
Lead	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Zinc	1.0	U	1.0	B	1.0	U	1.7	B	1.000	U	P
Cyanide	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	CA

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum			38.9	B							P
Arsenic			6.0	U							P
Cadmium			1.0	U							P
Copper			-1.4	B							P
Iron			20.0	U							P
Lead			2.0	U							P
Manganese			1.0	U							P
Mercury			0.2	U							CV
Zinc			1.0	U							P
Cyanide			4.0	U	4.0	U			4.000	U	CA

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

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) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Arsenic											NR
Cadmium											NR
Copper											NR
Iron											NR
Lead											NR
Manganese											NR
Mercury											NR
Zinc											NR
Cyanide	4.0	U	4.0	U	4.0	U	4.0	U			CA

C.

CALIBRATION SUMMARY

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	1956.0	2052.90	105.0	25000.0	24162.92	96.7	23347.59	93.4	P
Arsenic	50.9	50.52	99.3	2500.0	2452.96	98.1	2386.50	95.5	P
Cadmium	510.0	493.41	96.7	2500.0	2453.60	98.1	2359.94	94.4	P
Copper	497.0	489.97	98.6	2500.0	2489.02	99.6	2490.50	99.6	P
Iron	1985.0	1990.75	100.3	10000.0	10483.05	104.8	10183.76	101.8	P
Lead	4938.0	5082.43	102.9	2500.0	2472.08	98.9	2383.40	95.3	P
Manganese	491.0	483.18	98.4	2500.0	2449.22	98.0	2332.91	93.3	P
Mercury	4.1	4.18	102.0	5.0	5.20	104.0	5.31	106.2	CV
Zinc	3012.0	2952.74	98.0	2500.0	2444.56	97.8	2298.99	92.0	P
Cyanide	90.0	90.50	100.6	500.0	504.10	100.8	500.60	100.1	CA

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum				25000.0	23000.32	92.0	24182.44	96.7	P
Arsenic				2500.0	2366.98	94.7	2447.96	97.9	P
Cadmium				2500.0	2344.24	93.8	2433.22	97.3	P
Copper				2500.0	2457.60	98.3	2459.82	98.4	P
Iron				10000.0	10117.25	101.2	10004.72	100.0	P
Lead				2500.0	2358.22	94.3	2460.03	98.4	P
Manganese				2500.0	2305.01	92.2	2457.49	98.3	P
Mercury				5.0	4.97	99.4	5.20	104.0	CV
Zinc				2500.0	2290.76	91.6	2450.76	98.0	P
Cyanide				500.0	503.20	100.6	495.00	99.0	CA

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Arsenic									NR
Cadmium									NR
Copper									NR
Iron									NR
Lead									NR
Manganese									NR
Mercury									NR
Zinc									NR
Cyanide				500.0	500.70	100.1			CA

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Arsenic									NR
Cadmium									NR
Copper									NR
Iron									NR
Lead									NR
Manganese									NR
Mercury									NR
Zinc									NR
Cyanide	90.0	102.70	114.1	500.0	509.10	101.8	511.60	102.3	CA

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Initial Calibration Source: EPA-LV

Continuing Calibration Source: EPA-LV

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Arsenic									NR
Cadmium									NR
Copper									NR
Iron									NR
Lead									NR
Manganese									NR
Mercury									NR
Zinc									NR
Cyanide				500.0	508.10	101.6			CA

(1) Control limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

ANALYSIS REPORT

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

AA CRDL Standard Source: INOR-VEN

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum								
Arsenic				20.0	20.50	102.5	21.52	107.6
Cadmium				10.0	10.64	106.4	10.12	101.2
Copper				50.0	56.05	112.1	55.69	111.4
Iron								
Lead				6.0	5.21	86.8	4.59	76.5
Manganese				30.0	33.00	110.0	31.22	104.1
Mercury	0.2	0.25	125.0					
Zinc				40.0	43.58	109.0	40.10	100.2

D.

ICP
ICS RESULTS SUMMARY

ANALYSIS REPORT

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

ICP ID Number: P0 ICS Source: EPA-LV

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	495800	505595	465659	464952.7	92.0	438039	437691.9	86.6
Arsenic	0	97	-2	92.0	94.8	-3	89.7	92.5
Cadmium	0	871	1	839.4	96.4	1	842.3	96.7
Copper	28	507	24	539.7	106.4	24	545.3	107.6
Iron	186000	177250	179260	180083.7	101.6	173582	173762.0	98.0
Lead	0	47	-1	43.5	92.6	0	46.0	97.9
Manganese	45	484	46	477.7	98.7	43	484.9	100.2
Mercury								
Zinc	33	1008	30	872.3	86.5	27	879.5	87.3

E.

SPIKED SAMPLE RESULTS SUMMARY

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

DO-0018-06-004MS

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): 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	2298.9100		571.5900		2000.00	86.4		P
Arsenic	75-125	1846.4400		6.0000	U	2000.00	92.3		P
Cadmium	75-125	45.9100		1.0000	U	50.00	91.8		P
Copper	75-125	256.1800		13.8000	B	250.00	97.0		P
Iron	75-125	1664.2500		726.5300		1000.00	93.8		P
Lead	75-125	468.3400		2.0000	U	500.00	93.7		P
Manganese	75-125	545.2400		88.0000		500.00	91.4		P
Mercury									NR
Zinc	75-125	501.0000		52.2000		500.00	89.8		P
Cyanide									NR

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-7-FMS

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide	75-125	103.8000		4.0000	U	100.00	103.8		NR CA

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-7MS

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide	75-125	0.9230		0.2000	U	1.00	92.3		CV NR

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

DO-0018-06-004MSD

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): 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	2291.4000		571.5900		2000.00	86.0		P
Arsenic	75-125	1846.7600		6.0000	U	2000.00	92.3		P
Cadmium	75-125	45.9500		1.0000	U	50.00	91.9		P
Copper	75-125	257.0300		13.8000	B	250.00	97.3		P
Iron	75-125	1668.2400		726.5300		1000.00	94.2		P
Lead	75-125	469.9300		2.0000	U	500.00	94.0		P
Manganese	75-125	544.9200		88.0000		500.00	91.4		P
Mercury									NR
Zinc	75-125	499.8400		52.2000		500.00	89.5		P
Cyanide									NR

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-7-FMSD

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide	75-125	103.1000		4.0000	U	100.00	103.1		NR CA

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-7MSD

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide	75-125	1.0360		0.2000	U	1.00	103.6		CV NR

Comments:

F.

DUPLICATE SAMPLE RESULTS SUMMARY

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

DO-0018-06-002D

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): 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	200.0	589.7000		588.5100		0.2		P
Arsenic		6.0000	U	6.0000	U			P
Cadmium		1.0000	U	1.0000	U			P
Copper		22.6400	B	22.3800	B	1.2		P
Iron		2112.4000		2123.4800		0.5		P
Lead		2.0000	U	2.0000	U			P
Manganese		455.2200		456.8800		0.4		P
Mercury								NR
Zinc	20.0	82.9700		83.6900		0.9		P
Cyanide								NR

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-7-FD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide		4.0000	U	4.0000	U			NR CA

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-7D

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide		0.2000	U	0.2000	U			CV NR

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

DO-0018-06-004MSD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): 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		2298.9100		2291.4000		0.3		P
Arsenic		1846.4400		1846.7600		0.0		P
Cadmium		45.9100		45.9500		0.1		P
Copper		256.1800		257.0300		0.3		P
Iron		1664.2500		1668.2400		0.2		P
Lead		468.3400		469.9300		0.3		P
Manganese		545.2400		544.9200		0.1		P
Mercury								NR
Zinc		501.0000		499.8400		0.2		P
Cyanide								NR

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-7-FMSD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide		103.8000		103.1000		0.7		NR CA

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-7MSD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11821

Matrix (soil/water): 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
Mercury Cyanide	0.2	0.9230		1.0360		11.5		CV NR

G.

LABORATORY CONTROL SAMPLE RESULTS SUMMARY

ANALYSIS REPORT

7
LABORATORY CONTROL SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Solid LCS Source:

Aqueous LCS Source: EPA-LV

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	978.0	962.74	98.4						
Arsenic	50.9	41.29	81.1						
Cadmium	304.8	291.74	95.7						
Copper	248.5	247.12	99.4						
Iron	992.5	998.52	100.6						
Lead	2518.4	2479.46	98.5						
Manganese	245.5	240.96	98.2						
Mercury									
Zinc	1506.0	1443.66	95.9						
Cyanide									

H.

SERIAL DILUTION RESULTS SUMMARY

ANALYSIS REPORT

9

ICP SERIAL DILUTIONS

CLIENT SAMPLE #

DO-0018-06-002L

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11807

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	589.70		638.30	B	8.2		P
Arsenic	6.00	U	30.00	U			P
Cadmium	1.00	U	5.00	U			P
Copper	22.64	B	17.90	B	20.9		P
Iron	2112.40		2075.55		1.7		P
Lead	2.00	U	10.00	U			P
Manganese	455.22		460.40		1.1		P
Mercury							NR
Zinc	82.97		90.65	B	9.3		P

GENERAL CHEMISTRY DATA

GENERAL CHEMISTRY

TEST RESULTS

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73318
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-001
TIME SAMPLED- 1359 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
pH	EPA 150.1	05/21/99		HSP	6.65	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	4.00	mg/L

LABORATORY DIRECTOR _____

000211

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NJDEP Certification No 15004

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LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73319
SAMPLE ID- DO-0018-06-002
DATE SAMPLED- 05/19/99
TIME SAMPLED- 1353 SAMPLER- CLIENT

DATE RECEIVED- 05/21/99
TIME RECEIVED- 0930
DELIVERED BY- FEDEX
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.75	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	115	mg/L

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LABORATORY REPORT

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FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73320
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-003
TIME SAMPLED- 1348 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	20.0	mg/L

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REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
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Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807NJ

SAMPLE NUMBER- 73321
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-004
TIME SAMPLED- 1343 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.75	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	16.0	mg/L

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REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73323
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-006
TIME SAMPLED- 1335 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L

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REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73324
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-007
TIME SAMPLED- 1323 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.85	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	2.00	mg/L

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LABORATORY REPORT

REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73325
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-008
TIME SAMPLED- 1405 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	6.80	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	12.0	mg/L

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REPORT OF ANALYSES

FOSTER WHEELER ENVIRO CORP.
2300 LINCOLN HIGHWAY EAST
LANGHORNE, PA 19047-
Attn: DAVE DICESARE

DATE: 05/28/99

PROJECT # 11807 NJ

SAMPLE NUMBER- 73326
DATE SAMPLED- 05/19/99
DATE RECEIVED- 05/21/99
DELIVERED BY- FEDEX

SAMPLE ID- DO-0018-06-FIELD BLANK
TIME SAMPLED- 1312 SAMPLER- CLIENT
TIME RECEIVED- 0930
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	05/21/99		BP	<0.0250	mg/L
pH	EPA 150.1	05/21/99		HSP	7.40	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	05/28/99		SPS	<10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	05/24/99		HSP	7.00	mg/L

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GENERAL CHEMISTRY

QC RESULTS

CHEMTECH

LABORATORY REPORT

QC REPORT FOR FOSTER WHEELER ENVIRO CORP 05/28/99

QA/QC for SAMPLE Nos 73321,

Page 1

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
Chromium, Hexavalent	73324	<0 0250	<0.0250	0.000	0 00	100 34	ICV	0 5000	0.5028	100.56
7196A	-------	--------	--------	--------	--------	------	ICB	<0.025	<0 025	100.00
mg/L	-------	--------	--------	--------	--------	------	CCV1	0 5000	0 5050	101.00
	-------	--------	--------	--------	--------	------	CCB1	<0.025	<0 025	100.00
	-------	--------	--------	--------	--------	------	MID STD.	0 5000	0 5137	102 74
	-------	--------	--------	--------	--------	------	PBW	<0 025	<0 025	100.00
	-------	--------	--------	--------	--------	------	CCV2	0 5000	0 5395	107.90
	-------	--------	--------	--------	--------	------	CCB2	<0.025	<0.025	100.00
pH	73326	7 40	7 45	0.050	0 67	------	STDPH4 00	4.00	4.00	100.00
EPA 150 1	-------	--------	--------	--------	--------	------	STDPH7.00	7.00	7 05	100.71
STD UNITS	-------	--------	--------	--------	--------	------	STDPH10.00	10.0	10 0	100.00
	-------	--------	--------	--------	--------	------	STDPH7.00	7.00	7.05	100.71
TOTAL SUSPENDED	73319	115	117	2 0	1 72	105 00	BLANK1	<1.00	<1 00	100.00
SOLIDS	73321	16 0	17 0	1 0	6 06	104 00	STD	125.0	130 0	104 00
EPA 160 2	-------	--------	--------	--------	--------	------	BLANK2	<1.00	<1 00	100 00
mg/L										

000220

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CHEMTECH

LABORATORY REPORT

QC REPORT FOR FOSTER WHEELER ENVIRO CORP 05/28/99

QA/QC for SAMPLE Nos: 73323,

Page 1

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL ORGANIC CARBON	73324	<10 0	<10 0	0 0	0 00	113 00	QC	200 0	209.6	104.82
EPA 415 1							CCB1	<10 0	<10.0	100.00
mg/L							M.BLANK	<10.0	<10 0	100.00
							CCV2	200 0	212.2	106.10
							CCB2	<10.0	<10.0	100.00
							CCV1	200.0	214.2	107.11

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