N62269.AR.000596
NAWC WARMINSTER
5090.3a

FOSTER WHEELER ENVIRONMENTAL CORPORATION

August 5, 1999
File #: 1284-0018-99-0329

Commanding Officer
Northern Division
Naval Facilities Engineering Command
10 Industrial Highway, Mail Stop #82
Lester, PA 19113
Attn.: Code 4023 (S. Lehman)

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

Dear Mr. Lehman:

This letter report provides the results of the June, 1999 sampling and the activities performed during the reporting period from June 1, 1999 through June 30, 1999. The groundwater treatment plant operated 21.1% of the reporting period due to the scheduled maintenance shutdown of the plant, and on-going construction.

As of June 30, 1999 (2400 hours) a total of 332,613 gallons of groundwater had been treated during the period from June 1, 1999 through June 30, 1999. This brings the total amount of water treated to 37,408,028 gallons (June 30, 1999). During June, 1999 the average effluent flowrate was 35.9 gpm.

The process water was sampled on June 7, 1999. The results of this sampling are presented in the attached table. This data shows that no discharge limits were exceeded during the June, 1999 reporting period. 1,2-Dichlorobenzene and Carbon Disulfide were detected in the Area A influent for the first time during the reporting period. Discharge limits for many of the compounds detected have not been set; however, the table shows that all were below detection limits (where available) in the treatment plant effluent.

During the reporting period there was one system shutdown:

6/07/99 The Area "C" extraction wells were shut down at 1025 hours for treatment plant maintenance.

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

6/01/99 Treatment building sludge thickening tank and supernate recycling tank drained. Sludge thickening tank partially cleaned.

6/07/99 Sludge thickening and supernatant tanks cleaned. Equalization tank drained.

2300 LINCOLN HIGHWAY EAST, ONE OXFORD VALLEY, SUITE 200, LANGHORNE, PA 19047-1829
PHONE (215) 702-4000 FAX (215) 702-4045

6/08/99 Neutralization tank cleaned. Air stripper disassembled and cleaned.

6/09/99 Overhead door repaired. Began removal of clarifier plates for cleaning.

6/10/99 Continued clarifier cleaning.

6/11/99 Continued clarifier cleaning.

6/14/99 Equalization tank cleaning.

6/15/99 Removed sediment from Area "A" sump and air stripper with Clean Harbors vacuum truck.

6/16/99 Began sealing of Area "A" sump. Vacuumed out neutralization tank supernatant tank and equalization tank.

6/17/99 Completed sealing of joints in Area "A" sump. Continued removal of sediment from equalization tank.

6/18/99 Completed sediment removal from the equalization tank. Reinstalled the transfer pumps in Area "A" sump. Removed water and sediment from the building sump with vacuum truck.

6/23/99 Vapor carbon changed out by Envirotrol.

6/24/99 Liquid carbon changed out from primary vessel (Autumn Trucking/ Envirotrol).

6/25/99 Liquid carbon change out from secondary vessel (Autumn Trucking/ Envirotrol).

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
EW-19	12
EW-20	4
EW-21	7

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 June, 1999, as well as the total mass of each contaminant removed through June, 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 (this low flowrate was during the period when temporary pumping from wells A6 and A7 was proceeding). The only compound detected in the Area C influent was Tetrachloroethene; this mass removal was based on a flowrate of 33.9 GPM.

Compound	June, 1999 (lbs.)	Total to Date (lbs.)
1,1,2-Trichloroethane	0.02433	0.58433
1,1-Dichloroethene	0.0018	0.0228
1,2,4-Trimethylbenzene	0	0.0079
1,2-Dichlorobenzene	0.000152	0.000152
1,2-Dichloroethane	0.00079	0.00769
1,3,5-Trimethylbenzene	0	0.0044
Acetone	0.000988	0.077988
Benzene	0.002585	0.054585
Carbon Disulfide	0.000228	0.000228
Carbon Tetrachloride	0.31934	5.62934
Chloroform	0.019768	0.419768
cis-1,2-dichloroethene	0.004409	0.072409
Ethylbenzene	0.004105	0.088105
Isopropylbenzene	0.000927	0.011927
m&p-Xylenes	0.0028892	0.2608892
Methylene Chloride	0	0.011
Naphthalene	0	0.003
n-Propylbenzene	0.000912	0.011912
o-xylene	0.003953	0.133953
Tetrachloroethene	0.077254	4.217254
Toluene	0.022810	0.53281
Trichloroethene	2.083317	296.463317
Trichlorofluoromethane	0.000334	0.003634
Vinyl Chloride	0	0.0015

Area A Influent (2 GPM)

Calculation:
Average 1,1,2-Trichloroethane concentration = 160 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of 1,1,2-Trichloroethane removed = (2 gpm)(9120 min)(160 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.02433 lbs.

Calculation:
Average 1,1-Dichloroethene concentration = 12 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of 1,1-Dichloroethene removed = (2 gpm)(9120 min)(12 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0018 lbs.

Calculation:
Average 1,2-Dichlorobenzene concentration = 1 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of 1,2-Dichlorobenzene removed = (2 gpm)(9120 min)(1 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000152 lbs.

Area A Influent (cont)

Calculation:
Average 1,2-Dichloroethane concentration = 5.2 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of 1,2-Dichloroethane removed = (2 gpm)(9120 min)(5.2 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.00079 lbs.

Calculation:
Average Acetone concentration = 6.5 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Acetone removed = (2 gpm)(9120 min)(6.5 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000988 lbs.

Calculation:
Average Benzene concentration = 17 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Benzene removed = (2 gpm)(9120 min)(17 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.002585 lbs.

Calculation:
Average Carbon Disulfide concentration = 1.5 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Carbon Disulfide removed = (2 gpm)(9120 min)(1.5 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000228 lbs.

Calculation:
Average Carbon Tetrachloride concentration = 2100 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Carbon Tetrachloride removed = (2 gpm)(9120min)(2100 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.31934 lbs.

Calculation:
Average Chloroform concentration = 130 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Chloroform removed = (2 gpm)(9120 min)(130 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.019768 lbs.

Calculation:
Average cis-1,2-Dichloroethene concentration = 29 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of cis-1,2-Dichloroethene removed = (2 gpm)(9120 min)(29 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.004409 lbs.

Area A Influent (cont)

Calculation:
Average Ethylbenzene concentration = 27 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Ethylbenzene removed = (2 gpm)(9120 min)(27 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.004105 lbs.

Calculation:
Average Isopropylbenzene concentration = 6.1 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Isopropylbenzene removed = (2 gpm)(9120 min)(6.1 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000927 lbs.

Calculation:
Average m&p-Xylenes concentration = 19 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of m&p-Xylenes removed = (2 gpm)(9120 min)(19 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.0028892 lbs.

Calculation:
Average n-Propylbenzene concentration = 6 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of n-Propylbenzene removed = (2 gpm)(9120 min)(6 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000912 lbs.

Calculation:
Average o-Xylene concentration = 26 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of o-Xylene removed = (2 gpm)(9120 min)(26 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.003953 lbs.

Calculation:
Average Tetrachloroethene concentration = 220 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Tetrachloroethene removed = (2 gpm)(9120 min)(220 ug/L)(3.785 L/gal) (1 g/1,000,000 ug)(1 lb. / 454 g) = 0:033454 lbs.

Calculation:
Average Toluene concentration = 150 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Toluene removed = (2 gpm)(9120 min)(150 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.022810 lbs.

Area A Influent (cont)

Calculation:
Average Trichloroethene concentration = 13700 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Trichloroethene removed = (2 gpm)(9120 min)(13700 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 2.083317 lbs.

Calculation:
Average Trichlorofluoromethane concentration = 2.2 ug/l
Average water flowrate for month of June, 1999 = 2 gpm
Pounds of Trichlorofluoromethane removed = (2 gpm)(9120 min)(2.2 ug/L)(3.785 L/gal) (1 g / 1,000,000 ug)(1 lb. / 454 g) = 0.000334 lbs.

Area C Influent (33.9 GPM)

Calculation:
Average Tetrachloroethene concentration = 17 ug/l
Average water flowrate for month of June, 1999 = 33.9 gpm
Pounds of Tetrachloroethene removed = (33.9 gpm)(9120 min)(17 ug/L)(3.785 L/gal) (1 g/1,000,000 ug)(1 lb. / 454 g) = 0.0438 lbs.

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

If you should have any questions or comments regarding the June, 1999 reporting period, please feel free to contact Dave DiCesare 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
June, 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**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**7-Jun-99**	**Instantaneous Maximum**
Total Discharge (gal) thru 6/30/99										**332,613**
Average Discharge Flowrate (gpm) for June, 1999										**35.9**
pH	EPA 150 1	7 05	6 4	6 85	N/A	6 95	N/A	N/A	7 2	6 0-9 0
Total Suspended Solids (mg/l)	EPA 160 2	2	3	5	7	5	N/A	N/A	7	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	160	BDL	26	N/A	N/A	BDL	BDL	BDL	-
1,1-Dichloroethene	EPA 8260B	12	BDL	BDL	N/A	N/A	BDL	BDL	BDL	0 85 ug/l
1,2,4-Trimethylbenzene	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,2-Dichlorobenzene	EPA 8260B	1	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,2-Dichloroethane	EPA 8260B	5 2	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
1,3,5-Trimethylbenzene	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Acetone	EPA 8260B	6 5	BDL	4 3	N/A	N/A	BDL	BDL	BDL	-
Benzene	EPA 8260B	17	BDL	1 8	N/A	N/A	BDL	BDL	BDL	-
Carbon Disulfide	EPA 8260B	1 5	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Carbon Tetrachloride	EPA 8260B	2,100	BDL	200	N/A	N/A	BDL	BDL	BDL	4 2 ug/l
Chloroform	EPA 8260B	130	BDL	14	N/A	N/A	BDL	BDL	BDL	-
cis-1,2-Dichloroethene	EPA 8260B	29	BDL	1 3	N/A	N/A	BDL	BDL	BDL	-
Ethylbenzene	EPA 8260B	27	BDL	1 9	N/A	N/A	BDL	BDL	BDL	-
Isopropylbenzene	EPA 8260B	6 1	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
m&p-Xylenes	EPA 8260B	19	BDL	1 2	N/A	N/A	BDL	BDL	BDL	-
Methylene Chloride	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Naphthalene	EPA 8260B	BDL	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
n-Propylbenzene	EPA 8260B	6	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
o-Xylene	EPA 8260B	26	BDL	2	N/A	N/A	BDL	BDL	BDL	-
Tetrachloroethene	EPA 8260B	220	17	30	N/A	N/A	BDL	BDL	BDL	10 0 ug/l
Toluene	EPA 8260B	150	BDL	15	N/A	N/A	BDL	BDL	BDL	-
Trichloroethene	EPA 8260B	13,700	BDL	4,100	N/A	N/A	14	BDL	9 5	42 5 ug/l
Trichlorofluoromethane	EPA 8260B	2 2	BDL	BDL	N/A	N/A	BDL	BDL	BDL	-
Vinyl Chloride	EPA 8260B	BDL	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	21 4	N/A	18 5	N/A	21 4	N/A	N/A	20 9	24 0 ug/l
Lead	SW846	BDL	N/A	2 4	N/A	BDL	N/A	N/A	BDL	11 0 ug/l
Zinc	SW846	29 5	N/A	61 5	N/A	50 7	N/A	N/A	28 1	157 ug/l
Arsenic	SW846	BDL	N/A	BDL	N/A	BDL	N/A	N/A	BDL	0 27 ug/l
Aluminum	SW846	147	N/A	25 9	N/A	39 8	N/A	N/A	36 6	1875 ug/l
Total Iron	SW846	307	N/A	112	N/A	157	N/A	N/A	80 6	3600 ug/l
Total Manganese	SW846	127	N/A	21 1	N/A	12 4	N/A	N/A	1 7	3750 ug/l
Mercury	EPA 7470A	BDL	N/A	BDL	N/A	BDL	N/A	N/A	BDL	0 045 ug/l
Total Cyanide (mg/l)	EPA 9010	BDL	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 August, 1999

Monday, August 2, 1999
Thursday, August 5, 1999
Monday, August 9, 1999
Thursday, August 12, 1999
Monday, August 16, 1999
Thursday, August 19, 1999
Monday, August 23, 1999
Thursday, August 26, 1999
Monday, August 30, 1999

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

RESULTS SUMMARY

NAWC WARMINSTER
1284.B018.0209.00000

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

CHEMTECH PROJECT #	12019NJ
ATTENTION	DAVE DICESERE

Since 1967

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	17	
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.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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. 1201 Site: Location: NAWC WARMINIS Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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
1.				
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CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74676
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-001
TIME SAMPLED- 0945 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
pH	EPA 150.1	06/07/99		HSP	6.40	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	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

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	4.3	J
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	1.3	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	14	
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	200	
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	1.8	
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	4100	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	15	
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	26	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	30	
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	1.9	
1330-20-7	m&p-xylenes	1.2	J
95-47-6	o-xylene	2	
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.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
74-87-3	Chloromethane	180	UD
75-01-4	Vinyl Chloride	130	UD
74-83-9	Bromomethane	170	UD
75-00-3	Chloroethane	200	UD
107-02-8	Acrolein	500	UD
75-69-4	Trichlorofluoromethane	130	UD
75-35-4	1,1-Dichloroethene	57	UD
67-64-1	Acetone	500	UD
75-15-0	Carbon Disulfide	500	UD
75-09-2	Methylene Chloride	73	UD
156-60-5	trans-1,2-Dichloroethene	68	UD
107-13-1	Acrylonitrile	500	UD
75-34-4	1,1-Dichloroethane	37	UD
590-20-7	2,2-Dichloropropane	100	UD
156-60-5	cis-1,2-dichloroethene	84	UD
74-97-5	Bromochloromethane	87	UD
67-66-3	Chloroform	84	UD
71-55-6	1,1,1-Trichloroethane	86	UD
108-05-4	Vinyl Acetate	500	UD
78-93-3	2-Butanone	500	UD
56-23-5	Carbon Tetrachloride	150	UD
563-58-6	1,1-Dichloropropene	73	UD
71-43-2	Benzene	85	UD
107-06-2	1,2-Dichloroethane	90	UD
79-01-6	Trichloroethene	8600	D
78-87-5	1,2-Dichloropropane	100	UD
74-95-3	Dibromomethane	88	UD
75-27-4	Bromodichloromethane	60	UD
110-07-3	2-Chloroethyl Vinyl Ether	500	UD
10061-01-5	cis-1,3-Dichloropropene	13	UD
108-88-3	Toluene	100	UD
10061-02-6	trans-1,3-Dichloropropene	23	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
108-10-1	4-Methyl-2-Pentanone	500	UD
127-18-4	Tetrachloroethene	90	UD
142-28-9	1,3-Dichloropropane	90	UD
124-48-1	Dibromochloromethane	100	UD
106-93-4	1,2-Dibromoethane	120	UD
591-78-6	2-Hexanone	500	UD
108-90-7	Chlorobenzene	90	UD
630-20-6	1,1,1,2-Tetrachloroethane	90	UD
100-41-4	Ethylbenzene	90	UD
1330-20-7	m&p-xylenes	130	UD
95-47-6	o-xylene	90	UD
100-42-5	Styrene	45	UD
75-25-2	Bromoform	50	UD
98-82-8	isopropylbenzene	100	UD
108-86-1	Bromobenzene	70	UD
79-34-5	1,1,2,2-Tetrachloroethane	110	UD
96-18-4	1,2,3-Trichloropropane	110	UD
103-65-1	n-Propylbenzene	90	UD
95-49-8	2-Chlorotoluene	100	UD
106-43-4	4-Chlorotoluene	90	UD
108-67-8	1,3,5-Trimethylbenzene	110	UD
98-06-6	tert-Butylbenzene	70	UD
95-63-6	1,2,4-Trimethylbenzene	110	UD
135-98-8	sec-Butylbenzene	60	UD
541-73-1	1,3-Dichlorobenzene	95	UD
99-87-6	4-Isopropyltoluene	50	UD
106-46-7	1,4-Dichlorobenzene	100	UD
95-50-1	1,2-Dichlorobenzene	80	UD
104-51-8	n-Butylbenzene	120	UD
96-12-8	1,2-Dibromo-3-chloropropane	140	UD
120-82-1	1,2,4-Trichlorobenzene	80	UD
87-68-3	Hexachlorobutadiene	100	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
87-61-6	1,2,3-Trichlorobenzene	70	UD

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74677S

Level (low/med): LOW Date Received: 06/07/99

% 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	25.9	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	18.5	B		P
7439-89-6	Iron	112			P
7439-92-1	Lead	2.4	B		P
7439-96-5	Manganese	21.1			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	61.5			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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74677
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-002
TIME SAMPLED- 0938 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.85	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	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

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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74678
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-003
TIME SAMPLED- 0934 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	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

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74679S

Level (low/med): LOW Date Received: 06/07/99

% 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	39.8	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	157			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	12.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	50.7			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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74679
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-004
TIME SAMPLED- 0928 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.95	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	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

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	14	
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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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. 1201 Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74681
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-006
TIME SAMPLED- 0921 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 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

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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
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	9.5	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74682S

Level (low/med): LOW Date Received: 06/07/99

% 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	36.6	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	20.9	B		P
7439-89-6	Iron	80.6	B		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	28.1			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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74682
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-007
TIME SAMPLED- 0912 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.20	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	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

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	2.2	
75-35-4	1,1-Dichloroethene	12	
67-64-1	Acetone	6.5	
75-15-0	Carbon Disulfide	1.5	J
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	29	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	130	
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	2100	E
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	17	
107-06-2	1,2-Dichloroethane	5.2	
79-01-6	Trichloroethene	13700	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	150	
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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	160	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	220	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	27	
1330-20-7	m&p-xylenes	19	
95-47-6	o-xylene	26	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	6.1	
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	6	
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	1	
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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	1800	UD
74-87-3	Chloromethane	1800	UD
75-01-4	Vinyl Chloride	1300	UD
74-83-9	Bromomethane	1700	UD
75-00-3	Chloroethane	2000	UD
107-02-8	Acrolein	5000	UD
75-69-4	Trichlorofluoromethane	1300	UD
75-35-4	1,1-Dichloroethene	570	UD
67-64-1	Acetone	5000	UD
75-15-0	Carbon Disulfide	5000	UD
75-09-2	Methylene Chloride	730	UD
156-60-5	trans-1,2-Dichloroethene	680	UD
107-13-1	Acrylonitrile	5000	UD
75-34-4	1,1-Dichloroethane	370	UD
590-20-7	2,2-Dichloropropane	1000	UD
156-60-5	cis-1,2-dichloroethene	840	UD
74-97-5	Bromochloromethane	870	UD
67-66-3	Chloroform	840	UD
71-55-6	1,1,1-Trichloroethane	860	UD
108-05-4	Vinyl Acetate	5000	UD
78-93-3	2-Butanone	5000	UD
56-23-5	Carbon Tetrachloride	2300	D
563-58-6	1,1-Dichloropropene	730	UD
71-43-2	Benzene	850	UD
107-06-2	1,2-Dichloroethane	900	UD
79-01-6	Trichloroethene	111700	D
78-87-5	1,2-Dichloropropane	1000	UD
74-95-3	Dibromomethane	880	UD
75-27-4	Bromodichloromethane	600	UD
110-07-3	2-Chloroethyl Vinyl Ether	5000	UD
10061-01-5	cis-1,3-Dichloropropene	130	UD
108-88-3	Toluene	1000	UD
10061-02-6	trans-1,3-Dichloropropene	230	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	900	UD
108-10-1	4-Methyl-2-Pentanone	5000	UD
127-18-4	Tetrachloroethene	900	UD
142-28-9	1,3-Dichloropropane	900	UD
124-48-1	Dibromochloromethane	1000	UD
106-93-4	1,2-Dibromoethane	1200	UD
591-78-6	2-Hexanone	5000	UD
108-90-7	Chlorobenzene	900	UD
630-20-6	1,1,1,2-Tetrachloroethane	900	UD
100-41-4	Ethylbenzene	900	UD
1330-20-7	m&p-xylenes	1300	UD
95-47-6	o-xylene	900	UD
100-42-5	Styrene	450	UD
75-25-2	Bromoform	500	UD
98-82-8	isopropylbenzene	1000	UD
108-86-1	Bromobenzene	700	UD
79-34-5	1,1,2,2-Tetrachloroethane	1100	UD
96-18-4	1,2,3-Trichloropropane	1100	UD
103-65-1	n-Propylbenzene	900	UD
95-49-8	2-Chlorotoluene	1000	UD
106-43-4	4-Chlorotoluene	900	UD
108-67-8	1,3,5-Trimethylbenzene	1100	UD
98-06-6	tert-Butylbenzene	700	UD
95-63-6	1,2,4-Trimethylbenzene	1100	UD
135-98-8	sec-Butylbenzene	600	UD
541-73-1	1,3-Dichlorobenzene	950	UD
99-87-6	4-Isopropyltoluene	500	UD
106-46-7	1,4-Dichlorobenzene	1000	UD
95-50-1	1,2-Dichlorobenzene	800	UD
104-51-8	n-Butylbenzene	1200	UD
96-12-8	1,2-Dibromo-3-chloropropane	1400	UD
120-82-1	1,2,4-Trichlorobenzene	800	UD
87-68-3	Hexachlorobutadiene	1000	UD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	800	UD
87-61-6	1,2,3-Trichlorobenzene	700	UD

ANALYSIS REPORT
1

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74683S

Level (low/med): LOW Date Received: 06/07/99

% 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	147	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	307			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	127			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	29.5			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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74683
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-008
TIME SAMPLED- 0952 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.05	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	2.00	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

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No 15004

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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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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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74684S

Level (low/med): LOW Date Received: 06/07/99

% 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	43.2	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	7.6	B		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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74684
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-FIELD BLANK
TIME SAMPLED- 0905 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.80	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	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

NYSDOH Certification No. 10624
NJDEP Certification No. 02548

NJDEP Certification No. 15004

ANALYSIS REPORT
1

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74685S

Level (low/med): LOW Date Received: 06/07/99

% 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	56.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74686S

Level (low/med): LOW Date Received: 06/07/99

% 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	68.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74687S

Level (low/med): LOW Date Received: 06/07/99

% 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	33.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74688S

Level (low/med): LOW Date Received: 06/07/99

% 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-FIELD BLANK-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74689S

Level (low/med): LOW Date Received: 06/07/99

% 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:

DISSLOVED METALS

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

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

A FULL SERVICE ENVIRONMENTAL LABORATORY

CHEMTECH PROJECT # **12019NJ**
ATTENTION **DAVE DICESERE**

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.: 12019NJ Project Name: NAWC WARMINSTER

Client Sample No.	Lab Sample ID
DO-0018-06-001	74676
DO-0018-06-002	74677
DO-0018-06-003	74678
DO-0018-06-004	74679
DO-0018-06-005	74680
DO-0018-06-006	74681
DO-0018-06-007	74682
DO-0018-06-008	74683
DO-0018-06-FIELD BLANK	74684
DO-0018-06-002-F	74685
DO-0018-06-004-F	74686
DO-0018-06-007-F	74687
DO-0018-06-008-F	74688
DO-0018-06-FIELD BLANK-F	74689

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 : 6/18/99 Title: LAB DIRECTOR

CHEMTECH CONSULTING GROUP

CHAIN OF CUSTODY RECORD

CHEMTECH

CHAIN OF CUSTODY RECORD

Please check one:

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.: 120191NJ
CHEMTECH QUOTE NO.:

CLIENT INFORMATION

REPORT TO BE SENT TO.

COMPANY: Foster Wheeler Environmental
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 Irby
LOCATION: Langhorne, PA
PHONE: 215-275-8155 FAX:

BILLING INFORMATION

BILL TO: Foster Wheeler Environmental Corp PO #:
ADDRESS: 2300 Lincoln Highway East
CITY: Langhorne STATE: PA ZIP: 18047
ATTENTION: Warminster PHONE:

DATA TURNAROUND INFORMATION

☐ 21 DAYS
☒ 14 DAYS H.G.
☒ 7 DAYS Fax
☐ 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

PRESERVATIVES

	1	2	3	4	5	6	7	8	9
	/	/	C	D	/	B	A	/	

COMMENTS

← Specify Preservatives
A – HCl B – HNO_3
C – H_2SO_4 D – NaOH
E – ICE F – Other

CHEMTECH SAMPLE ID	SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# OF BOTTLES	1	2	3	4	5	6	7	8	9	COMMENTS
1. 74676	DO-0018-06-001	H_2O		X	6/7/99	0945	4	1	1					2			
2. 74677	DO-0018-06-002	↓		X	↓	0938	9	1	1	1	1	1	1	2	1		
3. 74678	DO-0018-06-003			X		0934	1		1								
4. 74679	DO-0018-06-004			X		0928	6	1	1		1	1	1		1		
5. 74680	DO-0018-06-005			X		0925	2							2			
6. 74681	DO-0018-06-006			X		0921	3			1				2			
7. 74682	DO-0018-06-007		X	X		0912	9	1	1	1	1	1	1	2	1		
8. 74683	DO-0018-06-008	↓		X	↓	0952	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]	6/7/99 1600	1. T. Lewandowski
RELINQUISHED BY. 2.	DATE/TIME:	RECEIVED BY. 2.
RELINQUISHED BY. 3.	DATE/TIME 6/7/99 1820	RECEIVED FOR LAB BY 3. [signature]

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

№ 024837

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
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% $NA_2S_2O_3$	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

CHAIN OF CUSTODY RECORD

Please check one:

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.:

CLIENT INFORMATION

REPORT TO BE SENT TO

COMPANY: Foster Wheeler Environmental

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 Ikey

LOCATION: Langhorne, PA

PHONE: 215-275-8155 FAX:

BILLING INFORMATION

BILL TO: Foster Wheeler Environmental Corp. PO #:

ADDRESS: 2300 Lincoln Highway East

CITY: Langhorne STATE: PA ZIP: 19047

ATTENTION: Warminster PHONE:

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 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	1	2	3	4	5	6	7	8	9	COMMENTS
							PRESERVATIVES	/	/	C	D	/	B	A	/		← Specify Preservatives A – HCl B – HNO_3 C – H_2SO_4 D – NaOH E – ICE F – Other
1. 74684	D0-0018-06-Field Blank	H_2O		X	6/7/99	0905	9	1	1	1	1	1	1	2	1		
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	

000005

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1. [signature]	6/7/99 1600	1. T. Lewandowski
RELINQUISHED BY 2.	DATE/TIME.	RECEIVED BY 2.
RELINQUISHED BY 3.	DATE/TIME 6/7/99 18:30	RECEIVED FOR LAB BY: [signature]

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

Comments:
* Filter And 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

№ 024838

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	Coo 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% $NA_2S_2O_3$	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 # 12019NJ

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

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

CYANIDE
The analysis of Cyanide is based on Method 9010.

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

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

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

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

CHEMTECH CONSULTING GROUP

LABORATORY CHRONICLE

000008

CHEMTECH

LABORATORY CHRONICLE
PROJECT #12019NJ

ANALYSIS	COLLECTED	DIGESTED/ EXTRACTED	ANALYZED	ANALYST	SAMPLE CONDITION
Volatile Organics	06/07/99	NA	06/08/99 06/09/99	VP	Intact Cool (4oC)
Metals	06/07/99	06/11/99	06/11/99	SJ/ST	Intact Cool (4oC)
Mercury	06/07/99	06/09/99	06/09/99	NP/VP	Intact Cool (4oC)
Cyanide	06/07/99	06/14/99	06/14/99	BS	Intact Cool (4oC)
pH	06/07/99	NA	06/07/99	HSP	Intact Cool (4oC)
TSS	06/07/99	NA	06/10/99	HSP	Intact Cool (4oC)
Hexavalent Chromium	06/07/99	NA	06/08/99	BP	Intact Cool (4oC)
TOC	06/07/99	NA	06/09/99	HNP	Intact Cool (4oC)

CHEMTECH CONSULTING GROUP

CONFORMANCE/ NON-CONFORMANCE SUMMARY

CHEMTECH
CONSULTING GROUP, INC

Volatiles

GC/MS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 12019N5

	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: Pluia Cremmaneni Date: 6/15/99

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

CHEMTECH CONSULTING GROUP, INC

METALS ANALYSIS CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No. 12019N5

	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: 6/18/99

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

CHEMTECH
CONSULTING GROUP, INC

GENERAL CHEMISTRY CONFORMANCE/NONCONFORMANCE SUMMARY

WORK ORDER No: 12019N5

	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: [signature] Date: 6/18/98

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.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	17	
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.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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
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. 1201 Site: Location: NAWC WARMINIS Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74676
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-001
TIME SAMPLED- 0945 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
pH	EPA 150.1	06/07/99		HSP	6.40	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	4.3	J
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	1.3	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	14	
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	200	
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	1.8	
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	4100	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	15	
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	26	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	30	
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	1.9	
1330-20-7	m&p-xylenes	1.2	J
95-47-6	o-xylene	2	
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.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
74-87-3	Chloromethane	180	UD
75-01-4	Vinyl Chloride	130	UD
74-83-9	Bromomethane	170	UD
75-00-3	Chloroethane	200	UD
107-02-8	Acrolein	500	UD
75-69-4	Trichlorofluoromethane	130	UD
75-35-4	1,1-Dichloroethene	57	UD
67-64-1	Acetone	500	UD
75-15-0	Carbon Disulfide	500	UD
75-09-2	Methylene Chloride	73	UD
156-60-5	trans-1,2-Dichloroethene	68	UD
107-13-1	Acrylonitrile	500	UD
75-34-4	1,1-Dichloroethane	37	UD
590-20-7	2,2-Dichloropropane	100	UD
156-60-5	cis-1,2-dichloroethene	84	UD
74-97-5	Bromochloromethane	87	UD
67-66-3	Chloroform	84	UD
71-55-6	1,1,1-Trichloroethane	86	UD
108-05-4	Vinyl Acetate	500	UD
78-93-3	2-Butanone	500	UD
56-23-5	Carbon Tetrachloride	150	UD
563-58-6	1,1-Dichloropropene	73	UD
71-43-2	Benzene	85	UD
107-06-2	1,2-Dichloroethane	90	UD
79-01-6	Trichloroethene	8600	D
78-87-5	1,2-Dichloropropane	100	UD
74-95-3	Dibromomethane	88	UD
75-27-4	Bromodichloromethane	60	UD
110-07-3	2-Chloroethyl Vinyl Ether	500	UD
10061-01-5	cis-1,3-Dichloropropene	13	UD
108-88-3	Toluene	100	UD
10061-02-6	trans-1,3-Dichloropropene	23	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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

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	90	UD
108-10-1	4-Methyl-2-Pentanone	500	UD
127-18-4	Tetrachloroethene	90	UD
142-28-9	1,3-Dichloropropane	90	UD
124-48-1	Dibromochloromethane	100	UD
106-93-4	1,2-Dibromoethane	120	UD
591-78-6	2-Hexanone	500	UD
108-90-7	Chlorobenzene	90	UD
630-20-6	1,1,1,2-Tetrachloroethane	90	UD
100-41-4	Ethylbenzene	90	UD
1330-20-7	m&p-xylenes	130	UD
95-47-6	o-xylene	90	UD
100-42-5	Styrene	45	UD
75-25-2	Bromoform	50	UD
98-82-8	isopropylbenzene	100	UD
108-86-1	Bromobenzene	70	UD
79-34-5	1,1,2,2-Tetrachloroethane	110	UD
96-18-4	1,2,3-Trichloropropane	110	UD
103-65-1	n-Propylbenzene	90	UD
95-49-8	2-Chlorotoluene	100	UD
106-43-4	4-Chlorotoluene	90	UD
108-67-8	1,3,5-Trimethylbenzene	110	UD
98-06-6	tert-Butylbenzene	70	UD
95-63-6	1,2,4-Trimethylbenzene	110	UD
135-98-8	sec-Butylbenzene	60	UD
541-73-1	1,3-Dichlorobenzene	95	UD
99-87-6	4-Isopropyltoluene	50	UD
106-46-7	1,4-Dichlorobenzene	100	UD
95-50-1	1,2-Dichlorobenzene	80	UD
104-51-8	n-Butylbenzene	120	UD
96-12-8	1,2-Dibromo-3-chloropropane	140	UD
120-82-1	1,2,4-Trichlorobenzene	80	UD
87-68-3	Hexachlorobutadiene	100	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
87-61-6	1,2,3-Trichlorobenzene	70	UD

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74677S

Level (low/med): LOW Date Received: 06/07/99

% 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	25.9	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	18.5	B		P
7439-89-6	Iron	112			P
7439-92-1	Lead	2.4	B		P
7439-96-5	Manganese	21.1			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	61.5			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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74677
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-002
TIME SAMPLED- 0938 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.85	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	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

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74678
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-003
TIME SAMPLED- 0934 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	mg/L

LABORATORY DIRECTOR _____

000031

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74679S

Level (low/med): LOW Date Received: 06/07/99

% 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	39.8	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	157			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	12.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	50.7			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000032

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74679
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-004
TIME SAMPLED- 0928 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.95	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	mg/L

LABORATORY DIRECTOR _____

000033

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	14	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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
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. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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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CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74681
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-006
TIME SAMPLED- 0921 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L

LABORATORY DIRECTOR _____

000042

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.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	9.5	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74682S

Level (low/med): LOW Date Received: 06/07/99

% 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	36.6	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	20.9	B		P
7439-89-6	Iron	80.6	B		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	28.1			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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74682
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-007
TIME SAMPLED- 0912 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.20	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	mg/L

LABORATORY DIRECTOR _____

000048

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	2.2	
75-35-4	1,1-Dichloroethene	12	
67-64-1	Acetone	6.5	
75-15-0	Carbon Disulfide	1.5	J
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	29	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	130	
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	2100	E
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	17	
107-06-2	1,2-Dichloroethane	5.2	
79-01-6	Trichloroethene	13700	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	150	
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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	160	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	220	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	27	
1330-20-7	m&p-xylenes	19	
95-47-6	o-xylene	26	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	6.1	
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	6	
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	1	
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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	1800	UD
74-87-3	Chloromethane	1800	UD
75-01-4	Vinyl Chloride	1300	UD
74-83-9	Bromomethane	1700	UD
75-00-3	Chloroethane	2000	UD
107-02-8	Acrolein	5000	UD
75-69-4	Trichlorofluoromethane	1300	UD
75-35-4	1,1-Dichloroethene	570	UD
67-64-1	Acetone	5000	UD
75-15-0	Carbon Disulfide	5000	UD
75-09-2	Methylene Chloride	730	UD
156-60-5	trans-1,2-Dichloroethene	680	UD
107-13-1	Acrylonitrile	5000	UD
75-34-4	1,1-Dichloroethane	370	UD
590-20-7	2,2-Dichloropropane	1000	UD
156-60-5	cis-1,2-dichloroethene	840	UD
74-97-5	Bromochloromethane	870	UD
67-66-3	Chloroform	840	UD
71-55-6	1,1,1-Trichloroethane	860	UD
108-05-4	Vinyl Acetate	5000	UD
78-93-3	2-Butanone	5000	UD
56-23-5	Carbon Tetrachloride	2300	D
563-58-6	1,1-Dichloropropene	730	UD
71-43-2	Benzene	850	UD
107-06-2	1,2-Dichloroethane	900	UD
79-01-6	Trichloroethene	111700	D
78-87-5	1,2-Dichloropropane	1000	UD
74-95-3	Dibromomethane	880	UD
75-27-4	Bromodichloromethane	600	UD
110-07-3	2-Chloroethyl Vinyl Ether	5000	UD
10061-01-5	cis-1,3-Dichloropropene	130	UD
108-88-3	Toluene	1000	UD
10061-02-6	trans-1,3-Dichloropropene	230	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	900	UD
108-10-1	4-Methyl-2-Pentanone	5000	UD
127-18-4	Tetrachloroethene	900	UD
142-28-9	1,3-Dichloropropane	900	UD
124-48-1	Dibromochloromethane	1000	UD
106-93-4	1,2-Dibromoethane	1200	UD
591-78-6	2-Hexanone	5000	UD
108-90-7	Chlorobenzene	900	UD
630-20-6	1,1,1,2-Tetrachloroethane	900	UD
100-41-4	Ethylbenzene	900	UD
1330-20-7	m&p-xylenes	1300	UD
95-47-6	o-xylene	900	UD
100-42-5	Styrene	450	UD
75-25-2	Bromoform	500	UD
98-82-8	isopropylbenzene	1000	UD
108-86-1	Bromobenzene	700	UD
79-34-5	1,1,2,2-Tetrachloroethane	1100	UD
96-18-4	1,2,3-Trichloropropane	1100	UD
103-65-1	n-Propylbenzene	900	UD
95-49-8	2-Chlorotoluene	1000	UD
106-43-4	4-Chlorotoluene	900	UD
108-67-8	1,3,5-Trimethylbenzene	1100	UD
98-06-6	tert-Butylbenzene	700	UD
95-63-6	1,2,4-Trimethylbenzene	1100	UD
135-98-8	sec-Butylbenzene	600	UD
541-73-1	1,3-Dichlorobenzene	950	UD
99-87-6	4-Isopropyltoluene	500	UD
106-46-7	1,4-Dichlorobenzene	1000	UD
95-50-1	1,2-Dichlorobenzene	800	UD
104-51-8	n-Butylbenzene	1200	UD
96-12-8	1,2-Dibromo-3-chloropropane	1400	UD
120-82-1	1,2,4-Trichlorobenzene	800	UD
87-68-3	Hexachlorobutadiene	1000	UD

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	800	UD
87-61-6	1,2,3-Trichlorobenzene	700	UD

ANALYSIS REPORT
1

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74683S

Level (low/med): LOW Date Received: 06/07/99

% 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	147	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	307			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	127			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	29.5			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000056

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74683
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-008
TIME SAMPLED- 0952 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.05	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	2.00	mg/L

LABORATORY DIRECTOR _____

000057

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 BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.				
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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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74684S

Level (low/med): LOW Date Received: 06/07/99

% 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	43.2	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	7.6	B		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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74684
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-FIELD BLANK
TIME SAMPLED- 0905 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.80	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	mg/L

LABORATORY DIRECTOR _____

000063

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

]18

ANALYSIS REPORT
1

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74685S

Level (low/med): LOW Date Received: 06/07/99

% 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	56.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000064

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74686S

Level (low/med): LOW Date Received: 06/07/99

% 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	68.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000065

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74687S

Level (low/med): LOW Date Received: 06/07/99

% 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	33.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000066

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74688S

Level (low/med): LOW Date Received: 06/07/99

% 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-FIELD BLANK-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74689S

Level (low/med): LOW Date Received: 06/07/99

% 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:

DISSLOVED METALS

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.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-001

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	17	
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.: 12019NJ Site: Location: NAWC WARMINIST Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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. 1201 Site: Location: NAWC WARMINIS Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74676

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6789.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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
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	4.3	J
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	1.3	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	14	
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	200	
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	1.8	
107-06-2	1,2-Dichloroethane	0.9	U
79-01-6	Trichloroethene	4100	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	15	
10061-02-6	trans-1,3-Dichloropropene	0.2	U

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	26	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	30	
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	1.9	
1330-20-7	m&p-xylenes	1.2	J
95-47-6	o-xylene	2	
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.
D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-002

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6790.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
74-87-3	Chloromethane	180	UD
75-01-4	Vinyl Chloride	130	UD
74-83-9	Bromomethane	170	UD
75-00-3	Chloroethane	200	UD
107-02-8	Acrolein	500	UD
75-69-4	Trichlorofluoromethane	130	UD
75-35-4	1,1-Dichloroethene	57	UD
67-64-1	Acetone	500	UD
75-15-0	Carbon Disulfide	500	UD
75-09-2	Methylene Chloride	73	UD
156-60-5	trans-1,2-Dichloroethene	68	UD
107-13-1	Acrylonitrile	500	UD
75-34-4	1,1-Dichloroethane	37	UD
590-20-7	2,2-Dichloropropane	100	UD
156-60-5	cis-1,2-dichloroethene	84	UD
74-97-5	Bromochloromethane	87	UD
67-66-3	Chloroform	84	UD
71-55-6	1,1,1-Trichloroethane	86	UD
108-05-4	Vinyl Acetate	500	UD
78-93-3	2-Butanone	500	UD
56-23-5	Carbon Tetrachloride	150	UD
563-58-6	1,1-Dichloropropene	73	UD
71-43-2	Benzene	85	UD
107-06-2	1,2-Dichloroethane	90	UD
79-01-6	Trichloroethene	8600	D
78-87-5	1,2-Dichloropropane	100	UD
74-95-3	Dibromomethane	88	UD
75-27-4	Bromodichloromethane	60	UD
110-07-3	2-Chloroethyl Vinyl Ether	500	UD
10061-01-5	cis-1,3-Dichloropropene	13	UD
108-88-3	Toluene	100	UD
10061-02-6	trans-1,3-Dichloropropene	23	UD

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
108-10-1	4-Methyl-2-Pentanone	500	UD
127-18-4	Tetrachloroethene	90	UD
142-28-9	1,3-Dichloropropane	90	UD
124-48-1	Dibromochloromethane	100	UD
106-93-4	1,2-Dibromoethane	120	UD
591-78-6	2-Hexanone	500	UD
108-90-7	Chlorobenzene	90	UD
630-20-6	1,1,1,2-Tetrachloroethane	90	UD
100-41-4	Ethylbenzene	90	UD
1330-20-7	m&p-xylenes	130	UD
95-47-6	o-xylene	90	UD
100-42-5	Styrene	45	UD
75-25-2	Bromoform	50	UD
98-82-8	isopropylbenzene	100	UD
108-86-1	Bromobenzene	70	UD
79-34-5	1,1,2,2-Tetrachloroethane	110	UD
96-18-4	1,2,3-Trichloropropane	110	UD
103-65-1	n-Propylbenzene	90	UD
95-49-8	2-Chlorotoluene	100	UD
106-43-4	4-Chlorotoluene	90	UD
108-67-8	1,3,5-Trimethylbenzene	110	UD
98-06-6	tert-Butylbenzene	70	UD
95-63-6	1,2,4-Trimethylbenzene	110	UD
135-98-8	sec-Butylbenzene	60	UD
541-73-1	1,3-Dichlorobenzene	95	UD
99-87-6	4-Isopropyltoluene	50	UD
106-46-7	1,4-Dichlorobenzene	100	UD
95-50-1	1,2-Dichlorobenzene	80	UD
104-51-8	n-Butylbenzene	120	UD
96-12-8	1,2-Dibromo-3-chloropropane	140	UD
120-82-1	1,2,4-Trichlorobenzene	80	UD
87-68-3	Hexachlorobutadiene	100	UD

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-002DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74677DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6802.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	UD
87-61-6	1,2,3-Trichlorobenzene	70	UD

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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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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	14	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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

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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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.

D0-0018-06-005

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74680

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6801.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-006

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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

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. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74681

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6792.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	9.5	
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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-007

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74682

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6793.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	2.2	
75-35-4	1,1-Dichloroethene	12	
67-64-1	Acetone	6.5	
75-15-0	Carbon Disulfide	1.5	J
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	29	
74-97-5	Bromochloromethane	0.9	U
67-66-3	Chloroform	130	
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	2100	E
563-58-6	1,1-Dichloropropene	0.7	U
71-43-2	Benzene	17	
107-06-2	1,2-Dichloroethane	5.2	
79-01-6	Trichloroethene	13700	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	150	
10061-02-6	trans-1,3-Dichloropropene	0.2	U

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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	160	
108-10-1	4-Methyl-2-Pentanone	5	U
127-18-4	Tetrachloroethene	220	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	27	
1330-20-7	m&p-xylenes	19	
95-47-6	o-xylene	26	
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	isopropylbenzene	6.1	
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	6	
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	1	
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.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

D0-0018-06-008

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6794.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	1800	UD
74-87-3	Chloromethane	1800	UD
75-01-4	Vinyl Chloride	1300	UD
74-83-9	Bromomethane	1700	UD
75-00-3	Chloroethane	2000	UD
107-02-8	Acrolein	5000	UD
75-69-4	Trichlorofluoromethane	1300	UD
75-35-4	1,1-Dichloroethene	570	UD
67-64-1	Acetone	5000	UD
75-15-0	Carbon Disulfide	5000	UD
75-09-2	Methylene Chloride	730	UD
156-60-5	trans-1,2-Dichloroethene	680	UD
107-13-1	Acrylonitrile	5000	UD
75-34-4	1,1-Dichloroethane	370	UD
590-20-7	2,2-Dichloropropane	1000	UD
156-60-5	cis-1,2-dichloroethene	840	UD
74-97-5	Bromochloromethane	870	UD
67-66-3	Chloroform	840	UD
71-55-6	1,1,1-Trichloroethane	860	UD
108-05-4	Vinyl Acetate	5000	UD
78-93-3	2-Butanone	5000	UD
56-23-5	Carbon Tetrachloride	2300	D
563-58-6	1,1-Dichloropropene	730	UD
71-43-2	Benzene	850	UD
107-06-2	1,2-Dichloroethane	900	UD
79-01-6	Trichloroethene	111700	D
78-87-5	1,2-Dichloropropane	1000	UD
74-95-3	Dibromomethane	880	UD
75-27-4	Bromodichloromethane	600	UD
110-07-3	2-Chloroethyl Vinyl Ether	5000	UD
10061-01-5	cis-1,3-Dichloropropene	130	UD
108-88-3	Toluene	1000	UD
10061-02-6	trans-1,3-Dichloropropene	230	UD

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	900	UD
108-10-1	4-Methyl-2-Pentanone	5000	UD
127-18-4	Tetrachloroethene	900	UD
142-28-9	1,3-Dichloropropane	900	UD
124-48-1	Dibromochloromethane	1000	UD
106-93-4	1,2-Dibromoethane	1200	UD
591-78-6	2-Hexanone	5000	UD
108-90-7	Chlorobenzene	900	UD
630-20-6	1,1,1,2-Tetrachloroethane	900	UD
100-41-4	Ethylbenzene	900	UD
1330-20-7	m&p-xylenes	1300	UD
95-47-6	o-xylene	900	UD
100-42-5	Styrene	450	UD
75-25-2	Bromoform	500	UD
98-82-8	isopropylbenzene	1000	UD
108-86-1	Bromobenzene	700	UD
79-34-5	1,1,2,2-Tetrachloroethane	1100	UD
96-18-4	1,2,3-Trichloropropane	1100	UD
103-65-1	n-Propylbenzene	900	UD
95-49-8	2-Chlorotoluene	1000	UD
106-43-4	4-Chlorotoluene	900	UD
108-67-8	1,3,5-Trimethylbenzene	1100	UD
98-06-6	tert-Butylbenzene	700	UD
95-63-6	1,2,4-Trimethylbenzene	1100	UD
135-98-8	sec-Butylbenzene	600	UD
541-73-1	1,3-Dichlorobenzene	950	UD
99-87-6	4-Isopropyltoluene	500	UD
106-46-7	1,4-Dichlorobenzene	1000	UD
95-50-1	1,2-Dichlorobenzene	800	UD
104-51-8	n-Butylbenzene	1200	UD
96-12-8	1,2-Dibromo-3-chloropropane	1400	UD
120-82-1	1,2,4-Trichlorobenzene	800	UD
87-68-3	Hexachlorobutadiene	1000	UD

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

D0-0018-06-008DL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: _____ Location: _____ Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74683DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6803.D

Level: (low/med) _____ Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1000.0

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	800	UD
87-61-6	1,2,3-Trichlorobenzene	700	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
D0-0018-06-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BLA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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-FIELD BL

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 Site: Location: Group: D0-0018-0

Matrix: (soil/water) WATER Lab Sample ID: O74684

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6800.D

Level: (low/med) Date Received: 6/7/99

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.: 12019NJ Site: _____ Location: _____ Group: D0-0018-06-

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	VSTD020	VSTD020	V6594.D	5/18/99	1514
03	VSTD100	VSTD100	V6595.D	5/18/99	1558
04	VSTD200	VSTD200	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.: 12019NJ Site: Location: Group: D0-0018-06-

Lab File ID: V6781.D BFB Injection Date: 6/8/99

Instrument ID: VOA 1 BFB Injection Time: 0803

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	40.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.8 (8.0)1
176	Greater than 95% but less than 101% of mass 174	70.6 (96.3)1
177	5.0 - 9.0% of mass 176	5.6 (7.9)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	VSTD5002	V6782.D	6/8/99	0835
02	VBLK01	VBLK01	V6784.D	6/8/99	1104
03	D0-0018-06-001	O74676	V6789.D	6/8/99	1532
04	D0-0018-06-002	O74677	V6790.D	6/8/99	1617
05	D0-0018-06-006	O74681	V6792.D	6/8/99	1746
06	D0-0018-06-007	O74682	V6793.D	6/8/99	1831
07	D0-0018-06-008	O74683	V6794.D	6/8/99	1916
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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-06-

Lab File ID: V6796.D BFB Injection Date: 6/9/99

Instrument ID: VOA 1 BFB Injection Time: 0717

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	15.5
75	30.0 - 60.0% of mass 95	40.2
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	67.6
175	5.0 - 9.0% of mass 174	5.6 (8.3)1
176	Greater than 95% but less than 101% of mass 174	65.9 (97.5)1
177	5.0 - 9.0% of mass 176	5.4 (8.2)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	VSTD5003	V6797.D	6/9/99	0749
02	VBLK02	VBLK02	V6798.D	6/9/99	0903
03	D0-0018-06-FIE	O74684	V6800.D	6/9/99	1043
04	D0-0018-06-005	O74680	V6801.D	6/9/99	1128
05	D0-0018-06-002	O74677DL	V6802.D	6/9/99	1213
06	D0-0018-06-008	O74683DL	V6803.D	6/9/99	1312
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C.

METHOD BLANK RESULTS SUMMARY

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VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER

Project No.: 12019NJ Site: Location: Group: D0-0018-06

Lab File ID: V6784.D Lab Sample ID: VBLK01

Date Analyzed: 6/8/99 Time Analyzed: 1104

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	D0-0018-06-001	O74676	V6789.D	1532
02	D0-0018-06-002	O74677	V6790.D	1617
03	D0-0018-06-006	O74681	V6792.D	1746
04	D0-0018-06-007	O74682	V6793.D	1831
05	D0-0018-06-008	O74683	V6794.D	1916
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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: V6784.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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: V6784.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.: 12019NJ 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: V6784.D

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

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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.

VBLK01

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 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: V6784.D

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

% Moisture: not dec. 100 Date Analyzed: 6/8/99

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

Number TICs found: 0

CAS Number	Compound Name	RT	Est. Conc.	Q
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VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER

Project No.: 12019NJ Site: Location: Group: D0-0018-06

Lab File ID: V6798.D Lab Sample ID: VBLK02

Date Analyzed: 6/9/99 Time Analyzed: 0903

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 BL	O74684	V6800.D	1043
02	D0-0018-06-005	O74680	V6801.D	1128
03	D0-0018-06-002DL	O74677DL	V6802.D	1213
04	D0-0018-06-008DL	O74683DL	V6803.D	1312
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COMMENTS:

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VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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: V6798.D

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

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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: V6798.D

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

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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: V6798.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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

000118

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBLK02

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 1201 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: V6798.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 6/9/99

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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CALIBRATION SUMMARY

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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.

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ 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.

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. 12019NJ Site: _____ Location: _____ Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 6/8/99 Time: 0835

Lab File ID: V6782.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	0.212		16.9	
Chloromethane	0.167	0.133	0.100	20.4	
Vinyl Chloride	0.168	0.142		15.5	20.0
Bromomethane	0.085	0.064		24.7	
Chloroethane	0.072	0.058		19.4	
Acrolein	0.021	0.018		14.3	
Trichlorofluoromethane	0.266	0.221		16.9	
1,1-Dichloroethene	0.280	0.246		12.1	20.0
Acetone	0.058	0.052		10.3	
Carbon Disulfide	0.618	0.534		13.6	
Methylene Chloride	0.235	0.198		15.7	
trans-1,2-Dichloroethene	0.326	0.277		15.0	
Acrylonitrile	0.062	0.055		11.3	
1,1-Dichloroethane	0.479	0.422	0.100	11.9	
2,2-Dichloropropane	0.392	0.347		11.5	
cis-1,2-dichloroethene	0.340	0.288		15.3	
Bromochloromethane	0.238	0.206		13.4	
Chloroform	0.450	0.411		8.7	20.0
1,1,1-Trichloroethane	0.375	0.351		6.4	
Vinyl Acetate	0.466	0.343		26.4	
2-Butanone	0.097	0.086		11.3	
Carbon Tetrachloride	0.342	0.310		9.4	
1,1-Dichloropropene	0.377	0.333		11.7	
Benzene	0.931	0.831		10.7	
1,2-Dichloroethane	0.231	0.218		5.6	
Trichloroethene	0.377	0.338		10.3	
1,2-Dichloropropane	0.334	0.295		11.7	20.0
Dibromomethane	0.214	0.207		3.3	
Bromodichloromethane	0.419	0.397		5.3	
2-Chloroethyl Vinyl Ether	0.178	0.146		18.0	
cis-1,3-Dichloropropene	0.494	0.442		10.5	
Toluene	1.113	1.000		10.2	20.0
trans-1,3-Dichloropropene	0.410	0.362		11.7	
1,1,2-Trichloroethane	0.299	0.277		7.4	
4-Methyl-2-Pentanone	0.282	0.238		15.6	
Tetrachloroethene	0.395	0.349		11.6	

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. 12019NJ Site: _____ Location: _____ Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 6/8/99 Time: 0835

Lab File ID: V6782.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	RRF	RRF50	MIN RRF	%D	MAX %D
1,3-Dichloropropane	0.562	0.495		11.9	
Dibromochloromethane	0.419	0.394	0.300	6.0	
1,2-Dibromoethane	0.403	0.362		10.2	
2-Hexanone	0.203	0.167		17.7	
Chlorobenzene	0.856	0.739		13.7	
1,1,1,2-Tetrachloroethane	0.362	0.328		9.4	
Ethylbenzene	1.428	1.240		13.2	20.0
m&p-xylenes	0.538	0.462	0.100	14.1	
o-xylene	1.112	0.937		15.7	
Styrene	0.887	0.792		10.7	
Bromoform	0.287	0.268	0.300	6.6	
isopropylbenzene	3.088	2.711		12.2	
Bromobenzene	1.536	1.321		14.0	
1,1,2,2-Tetrachloroethane	1.049	0.956		8.9	
1,2,3-Trichloropropane	0.709	0.612		13.7	
n-Propylbenzene	0.881	0.774		12.1	
2-Chlorotoluene	0.765	0.647		15.4	
4-Chlorotoluene	0.787	0.660		16.1	
1,3,5-Trimethylbenzene	2.458	2.113		14.0	
tert-Butylbenzene	2.618	2.239		14.5	
1,2,4-Trimethylbenzene	2.470	2.107		14.7	
sec-Butylbenzene	3.686	3.129		15.1	
1,3-Dichlorobenzene	1.592	1.352		15.1	
4-Isopropyltoluene	3.456	2.901		16.1	
1,4-Dichlorobenzene	1.725	1.404		18.6	
1,2-Dichlorobenzene	1.468	1.264		13.9	
n-Butylbenzene	3.015	2.512		16.7	
1,2-Dibromo-3-chloropropane	0.191	0.159		16.8	
1,2,4-Trichlorobenzene	1.146	1.004		12.4	
Hexachlorobutadiene	0.748	0.640		14.4	
Naphthalene	2.630	2.136		18.8	
1,2,3-Trichlorobenzene	1.073	0.885		17.5	

All other compounds must meet a minimum RRF of 0.010.

000125

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	0.432		-2.6	
1,2-Dichlorethane-d4	0.226	0.237		-4.9	
Toluene-d8	1.112	1.131		-1.7	
4-Bromofluorobenzene	0.722	0.676		6.4	

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. 12019NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 6/9/99 Time: 0749

Lab File ID: V6797.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	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.255	0.230		9.8	
Chloromethane	0.167	0.158	0.100	5.4	
Vinyl Chloride	0.168	0.156		7.1	20.0
Bromomethane	0.085	0.059		30.6	
Chloroethane	0.072	0.063		12.5	
Acrolein	0.021	0.018		14.3	
Trichlorofluoromethane	0.266	0.243		8.6	
1,1-Dichloroethene	0.280	0.265		5.4	20.0
Acetone	0.058	0.056		3.4	
Carbon Disulfide	0.618	0.582		5.8	
Methylene Chloride	0.235	0.211		10.2	
trans-1,2-Dichloroethene	0.326	0.301		7.7	
Acrylonitrile	0.062	0.053		14.5	
1,1-Dichloroethane	0.479	0.452	0.100	5.6	
2,2-Dichloropropane	0.392	0.380		3.1	
cis-1,2-dichloroethene	0.340	0.317		6.8	
Bromochloromethane	0.238	0.223		6.3	
Chloroform	0.450	0.440		2.2	20.0
1,1,1-Trichloroethane	0.375	0.372		0.8	
Vinyl Acetate	0.466	0.351		24.7	
2-Butanone	0.097	0.072		25.8	
Carbon Tetrachloride	0.342	0.334		2.3	
1,1-Dichloropropene	0.377	0.351		6.9	
Benzene	0.931	0.875		6.0	
1,2-Dichloroethane	0.231	0.230		0.4	
Trichloroethene	0.377	0.361		4.2	
1,2-Dichloropropane	0.334	0.312		6.6	20.0
Dibromomethane	0.214	0.209		2.3	
Bromodichloromethane	0.419	0.420		-0.2	
2-Chloroethyl Vinyl Ether	0.178	0.149		16.3	
cis-1,3-Dichloropropene	0.494	0.479		3.0	
Toluene	1.113	1.020		8.4	20.0
trans-1,3-Dichloropropene	0.410	0.377		8.0	
1,1,2-Trichloroethane	0.299	0.282		5.7	
4-Methyl-2-Pentanone	0.282	0.230		18.4	
Tetrachloroethene	0.395	0.362		8.4	

All other compounds must meet a minimum RRF of 0.010.

000127

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No. 12019NJ Site: Location: Group: D0-0018-06-

Instrument ID: VOA 1 Calibration Date: 6/9/99 Time: 0749

Lab File ID: V6797.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	0.510		9.3	
Dibromochloromethane	0.419	0.408	0.300	2.6	
1,2-Dibromoethane	0.403	0.368		8.7	
2-Hexanone	0.203	0.164		19.2	
Chlorobenzene	0.856	0.769		10.2	
1,1,1,2-Tetrachloroethane	0.362	0.344		5.0	
Ethylbenzene	1.428	1.281		10.3	20.0
m&p-xylenes	0.538	0.485	0.100	9.9	
o-xylene	1.112	0.991		10.9	
Styrene	0.887	0.806		9.1	
Bromoform	0.287	0.267	0.300	7.0	
isopropylbenzene	3.088	2.826		8.5	
Bromobenzene	1.536	1.382		10.0	
1,1,2,2-Tetrachloroethane	1.049	0.913		13.0	
1,2,3-Trichloropropane	0.709	0.601		15.2	
n-Propylbenzene	0.881	0.800		9.2	
2-Chlorotoluene	0.765	0.676		11.6	
4-Chlorotoluene	0.787	0.685		13.0	
1,3,5-Trimethylbenzene	2.458	2.223		9.6	
tert-Butylbenzene	2.618	2.338		10.7	
1,2,4-Trimethylbenzene	2.470	2.209		10.6	
sec-Butylbenzene	3.686	3.290		10.7	
1,3-Dichlorobenzene	1.592	1.400		12.1	
4-Isopropyltoluene	3.456	3.037		12.1	
1,4-Dichlorobenzene	1.725	1.454		15.7	
1,2-Dichlorobenzene	1.468	1.284		12.5	
n-Butylbenzene	3.015	2.662		11.7	
1,2-Dibromo-3-chloropropane	0.191	0.151		20.9	
1,2,4-Trichlorobenzene	1.146	1.015		11.4	
Hexachlorobutadiene	0.748	0.676		9.6	
Naphthalene	2.630	1.952		25.8	
1,2,3-Trichlorobenzene	1.073	0.893		16.8	

All other compounds must meet a minimum RRF of 0.010.

000128

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	$\overline{\text{RRF}}$	RRF50	MIN RRF	%D	MAX %D
Dibromofluoromethane	0.421	0.425		-1.0	
1,2-Dichlorethane-d4	0.226	0.236		-4.4	
Toluene-d8	1.112	1.113		-0.1	
4-Bromofluorobenzene	0.722	0.667		7.6	

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.: 12019NJ Site: _____ Location: _____ Group: D0-0018-06-001

	SAMPLE NO.	SMC1 (DBFM) #	SMC2 (DCE) #	SMC3 (TOL) #	SMC4 (BFB) #	TOT OUT
01	VBLK01	99	105	101	94	
02	D0-0018-06-001	101	103	101	92	
03	D0-0018-06-002	104	108	97	92	
04	D0-0018-06-006	102	107	101	94	
05	D0-0018-06-007	102	107	103	94	
06	D0-0018-06-008	100	104	90	97	
07	VBLK02	103	111	103	95	
08	D0-0018-06-FIELD	105	113	103	95	
09	D0-0018-06-005	103	111	101	93	
10	D0-0018-06-002DL	105 D	112 D	103 D	96 D	
11	D0-0018-06-008DL	102 D	110 D	100 D	93 D	
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

F.

MS/ MSD RESULTS SUMMARY

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: _____

000133

G.

INTERNAL STANDARD RESULTS SUMMARY

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-06-

Lab File ID (Standard): V6782.D Date Analyzed: 6/8/99

Instrument ID: VOA 1 Time Analyzed: 0835

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	1908076	13.19	1870829	21.59	948121	27.44
	UPPER LIMIT	3816152	13.69	3741658	22.09	1896242	27.94
	LOWER LIMIT	954038	12.69	935415	21.09	474061	26.94
	SAMPLE NO.						
01	VBLK01	2042301	13.19	2044240	21.59	1051504	27.45
02	D0-0018-06-001	1924588	13.21	1881413	21.60	986294	27.46
03	D0-0018-06-002	1852153	13.24	1740414	21.61	924449	27.47
04	D0-0018-06-006	1845752	13.22	1836722	21.61	897256	27.46
05	D0-0018-06-007	1798215	13.22	1783362	21.60	875725	27.46
06	D0-0018-06-008	1740465	13.25	1546443	21.61	815031	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.

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: FOSTER WHEELER ENVIRO CORP.

Project No.: 12019NJ Site: Location: Group: D0-0018-06-

Lab File ID (Standard): V6797.D Date Analyzed: 6/9/99

Instrument ID: VOA 1 Time Analyzed: 0749

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	1864892	13.19	1824162	21.58	924072	27.42
	UPPER LIMIT	3729784	13.69	3648324	22.08	1848144	27.92
	LOWER LIMIT	932446	12.69	912081	21.08	462036	26.92
	SAMPLE NO.						
01	VBLK02	1791503	13.19	1780827	21.59	880644	27.43
02	D0-0018-06-FIELD BLA	1760051	13.21	1714414	21.61	844081	27.46
03	D0-0018-06-005	1755511	13.23	1700284	21.61	860814	27.46
04	D0-0018-06-002DL	1694423	13.23	1636474	21.61	821406	27.46
05	D0-0018-06-008DL	1710027	13.23	1668790	21.62	835808	27.46
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.

000136

H.

CHROMATOGRAMS

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6789.D
Acq Time : 8 Jun 99 3:32 pm
Sample : 12019NJ-74676
Misc : 5ML
Quant Time: Jun 8 21:13 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	1924588	50.00 ug/L	0.06
42) Chlorobenzene-d5	21.60	117	1881413	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	986294	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.07	113	816713	50.35 ug/L	100.70%
29) 1,2-Dichlorethane-d4	12.24	65	449917	51.74 ug/L	103.48%
37) Toluene-d8	17.80	98	2161637	50.49 ug/L	100.98%
41) 4-Bromofluorobenzene	24.62	95	1274314	45.84 ug/L	91.68%
Target Compounds					Qvalue
44) tetrachloroethene	19.37	166	255281	17.17 ug/L	98

000138

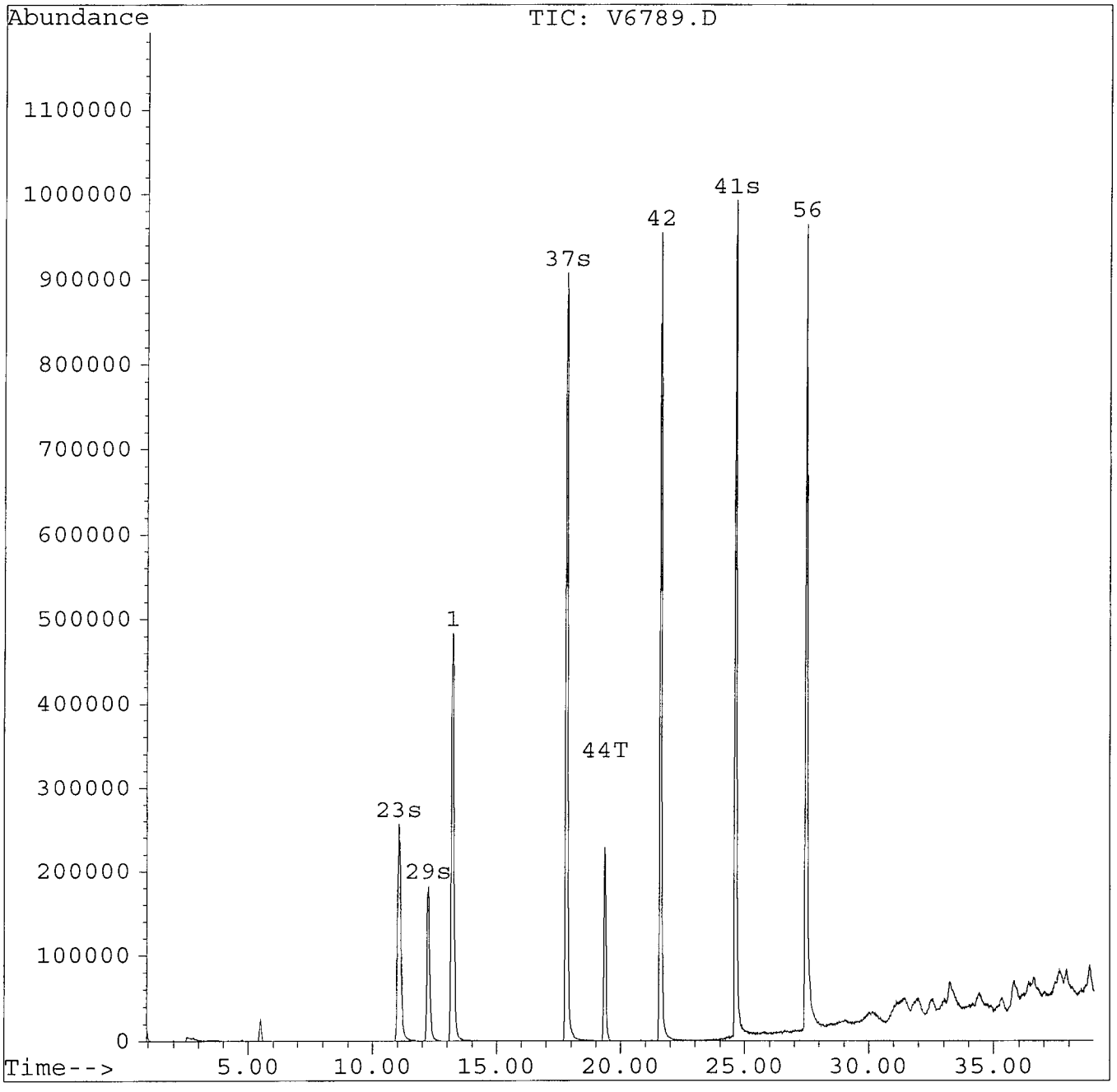
(#) = qualifier out of range (m) = manual integration

Quantitation Report

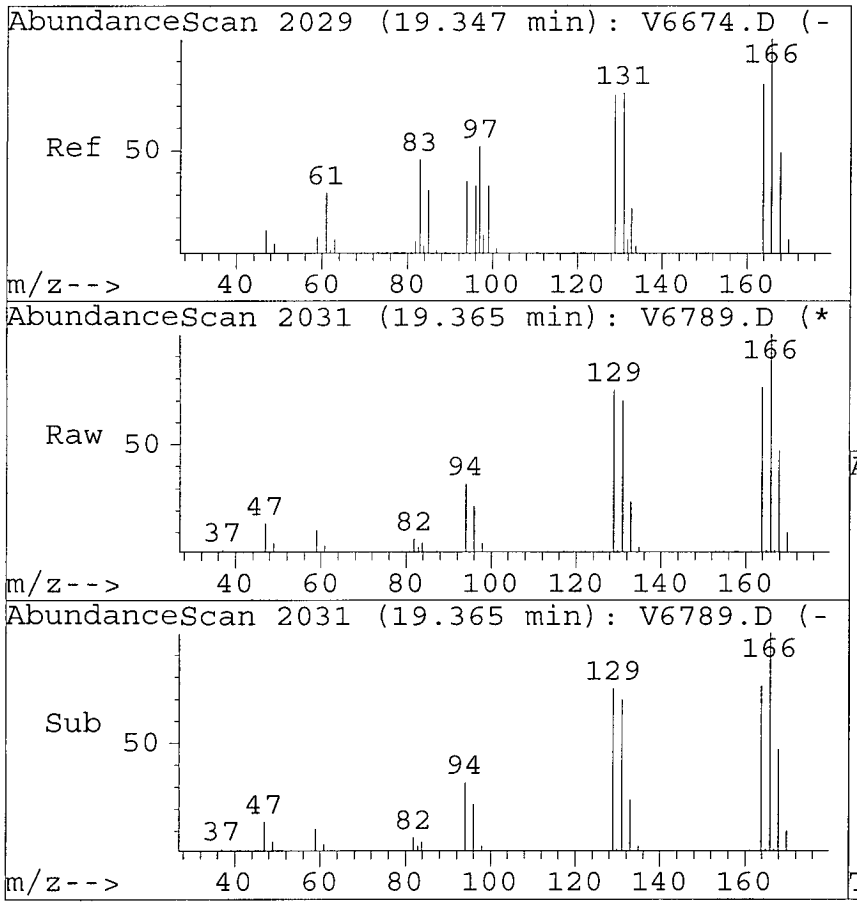
Data File : D:\HPCHEM\1\DATA\V1060899\V6789.D
Acq Time : 8 Jun 99 3:32 pm
Sample : 12019NJ-74676
Misc : 5ML
Quant Time: Jun 8 21:13 1999

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



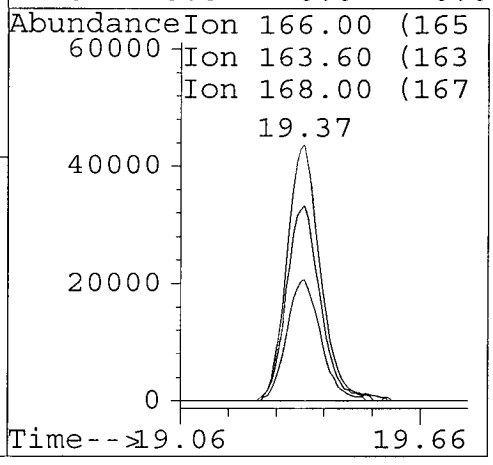
000139



#44
tetrachloroethene
Concen: 17.17 ug/L
RT: 19.37 min Scan# 2031
Delta R.T. 0.07 min
Lab File: V6789.D
Acq: 8 Jun 99 3:32 pm

Tgt Ion:166 Resp: 255281

Ion	Ratio	Lower	Upper
166	100		
164	76.0	54.1	100.5
168	47.3	34.3	63.7
0	0.0	0.0	0.0



000140

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6790.D
Acq Time : 8 Jun 99 4:17 pm
Sample : 12019NJ-74677
Misc : 5ML
Quant Time: Jun 8 21:13 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	13.24	96	1852153	50.00 ug/L	0.09
42) Chlorobenzene-d5	21.61	117	1740414	50.00 ug/L	0.07
56) 1,4-dichlorobenzene-d4	27.47	152	924449	50.00 ug/L	0.08
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.09	113	809124	51.84 ug/L	103.67%
29) 1,2-Dichlorethane-d4	12.27	65	450431	53.82 ug/L	107.65%
37) Toluene-d8	17.83	98	1997529	48.48 ug/L	96.97%
41) 4-Bromofluorobenzene	24.62	95	1234911	46.16 ug/L	92.32%
Target Compounds					Qvalue
10) Acetone	4.76	43	9321	4.33 ug/L	87
19) cis-1,2-dichloroethene	9.20	61	16489	1.31 ug/L	95
21) chloroform	10.49	83	234481	14.06 ug/L	96
26) carbon tetrachloride	11.31	117	2517778	198.48 ug/L	97
28) benzene	12.17	78	63092	1.83 ug/L	98
31) trichloroethene	14.45	130	56933453	4076.39 ug/L	98
38) toluene	18.01	91	605812	14.70 ug/L	99
40) 1,1,2-trichloroethane	19.33	97	287937	25.99 ug/L	98
44) tetrachloroethene	19.36	166	412723	30.00 ug/L	99
51) ethylbenzene	21.97	91	93883	1.89 ug/L	99
52) m&p-xylenes	22.31	106	21855	1.17 ug/L	93
53) o-xylene	23.27	91	77442	2.00 ug/L	96

000141

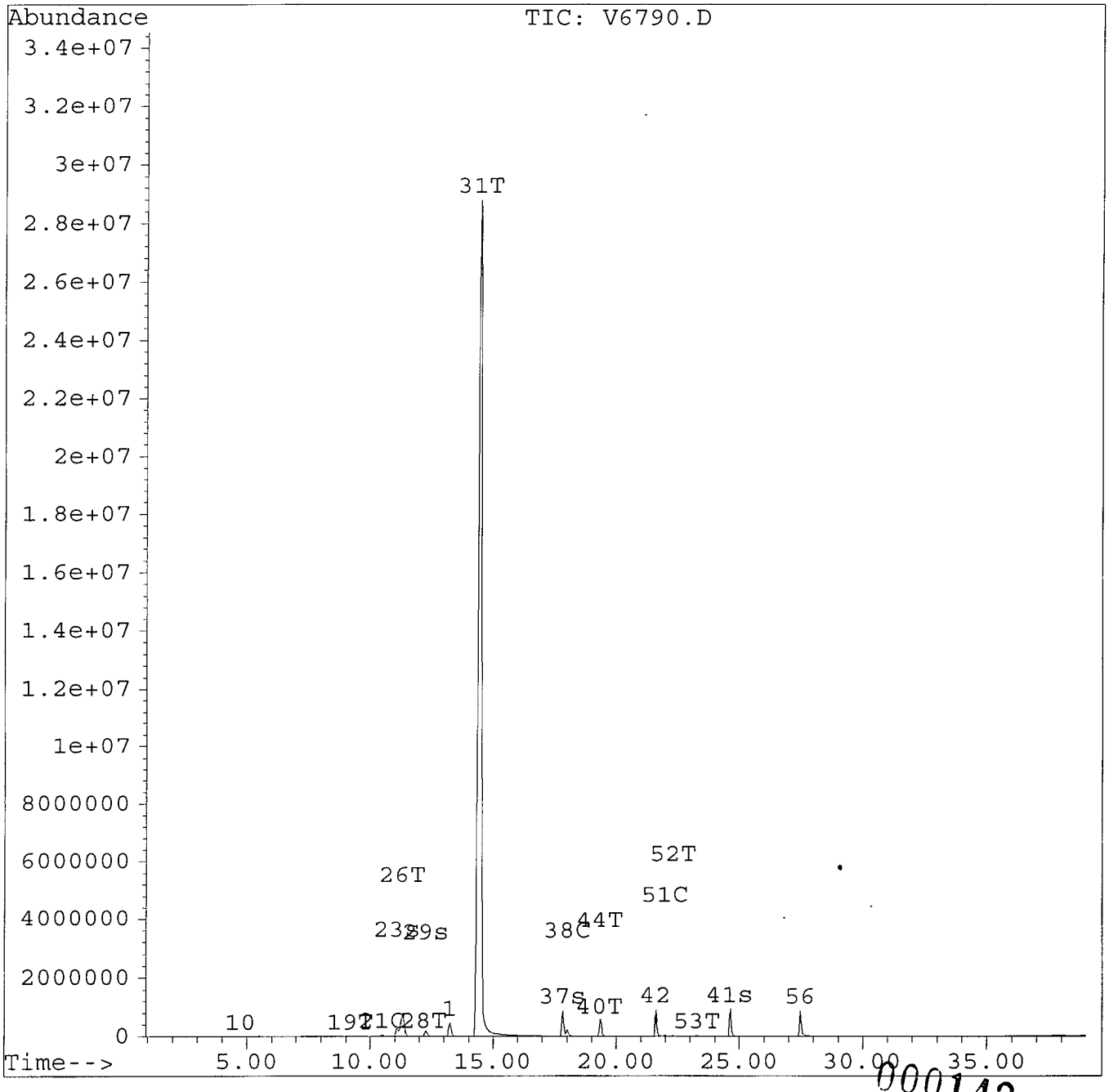
(#) = qualifier out of range (m) = manual integration

Quantitation Report

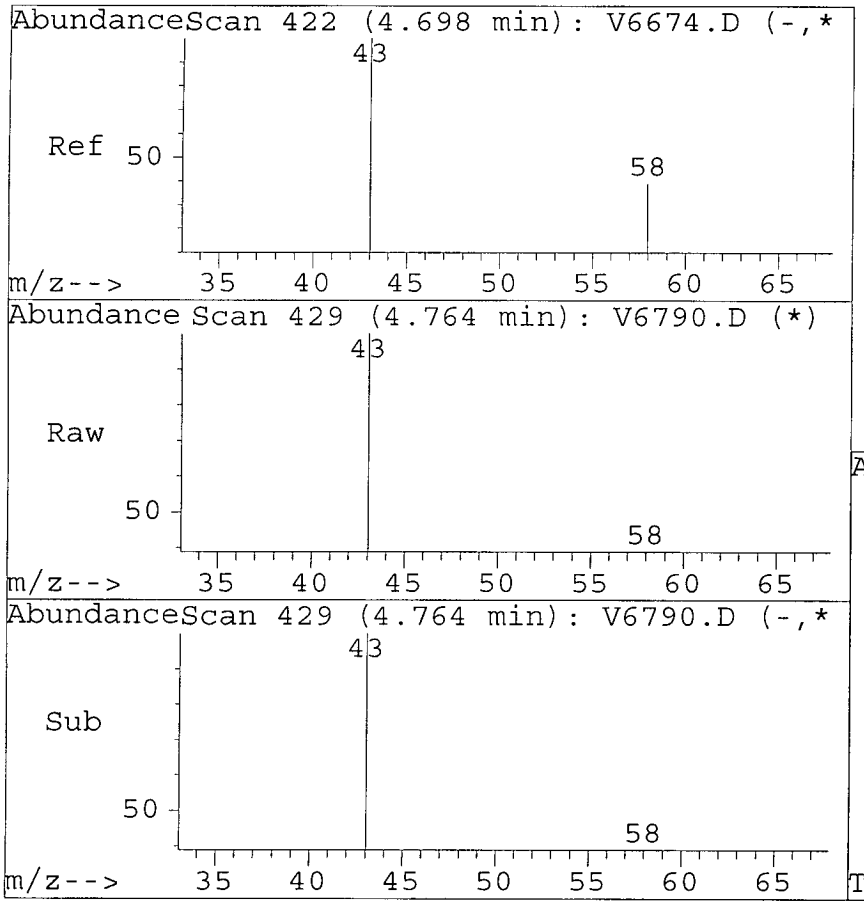
Data File : D:\HPCHEM\1\DATA\V1060899\V6790.D
Acq Time : 8 Jun 99 4:17 pm
Sample : 12019NJ-74677
Misc : 5ML
Quant Time: Jun 8 21:13 1999

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



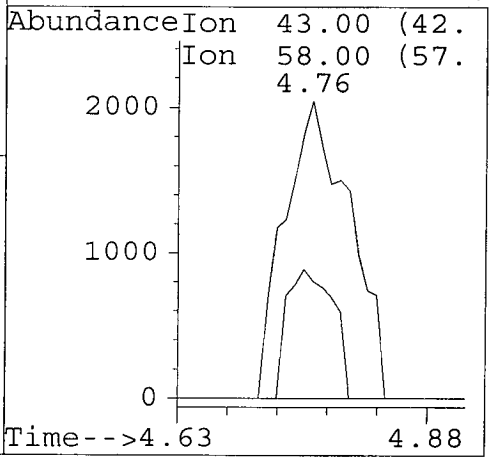
000142

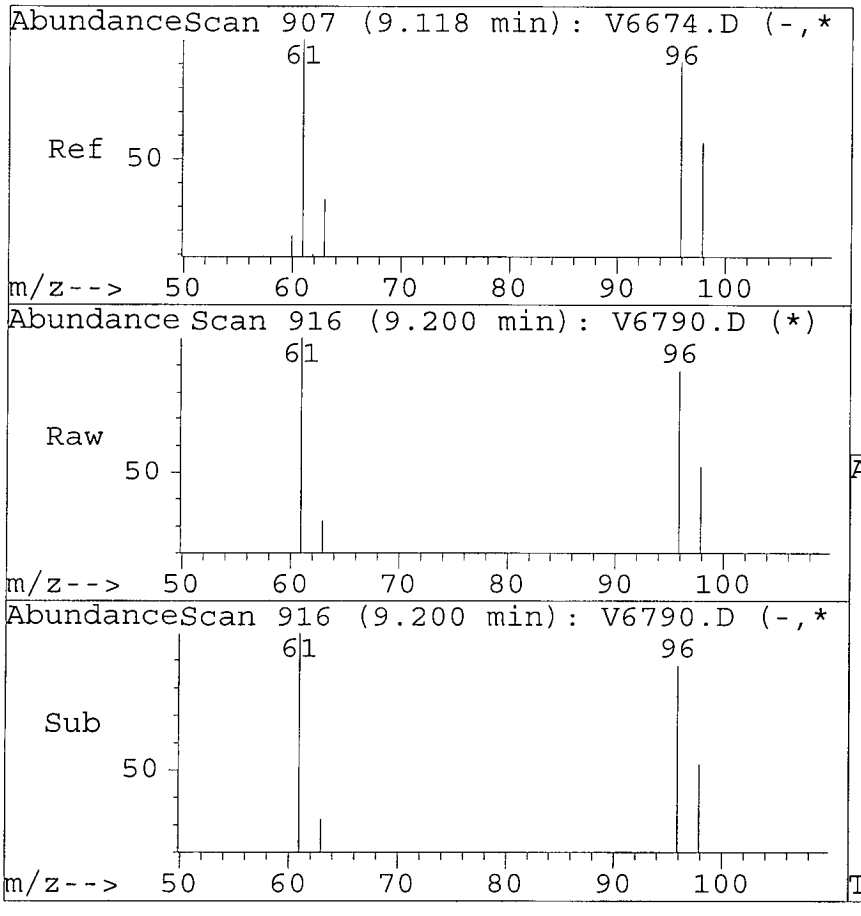


#10
Acetone
Concen: 4.33 ug/L
RT: 4.76 min Scan# 429
Delta R.T. 0.05 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:43 Resp: 9321

Ion	Ratio	Lower	Upper
43	100		
58	30.8	27.3	50.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

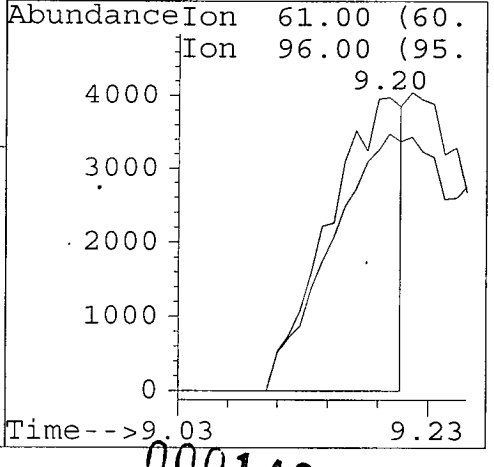




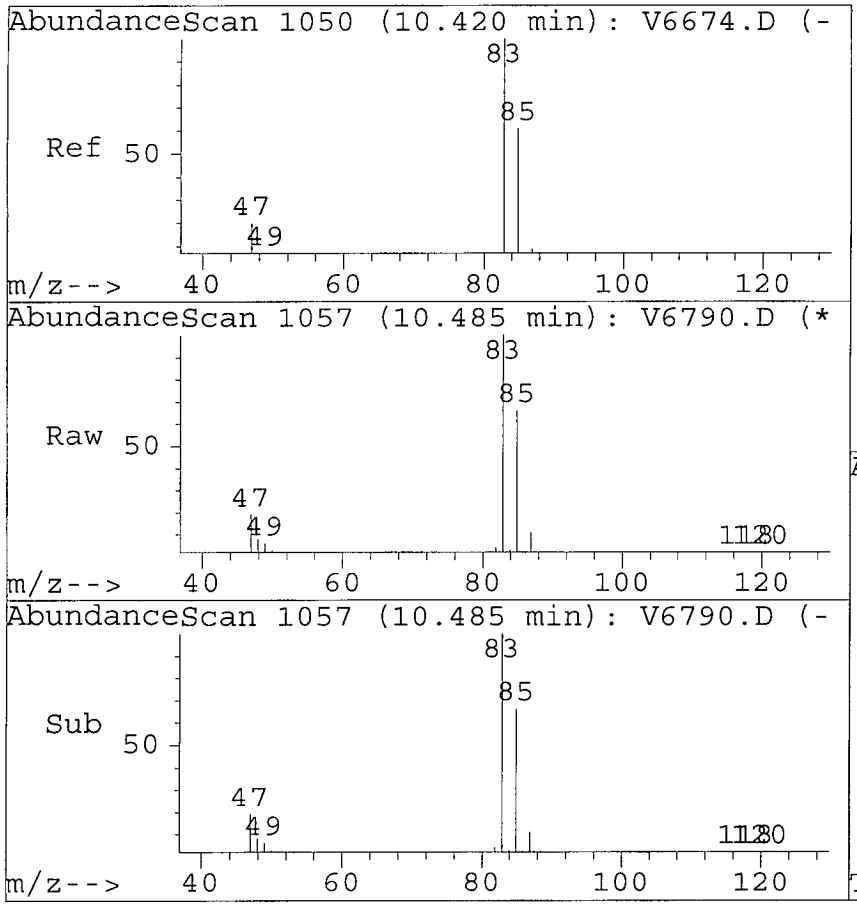
#19
cis-1,2-dichloroethene
Concen: 1.31 ug/L
RT: 9.20 min Scan# 916
Delta R.T. 0.14 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:61 Resp: 16489

Ion	Ratio	Lower	Upper
61	100		
96	87.6	58.2	108.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



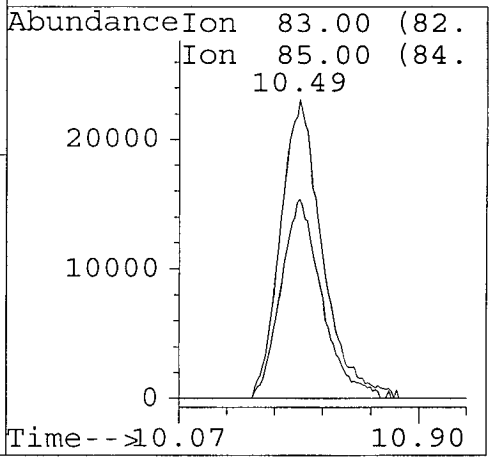
000143

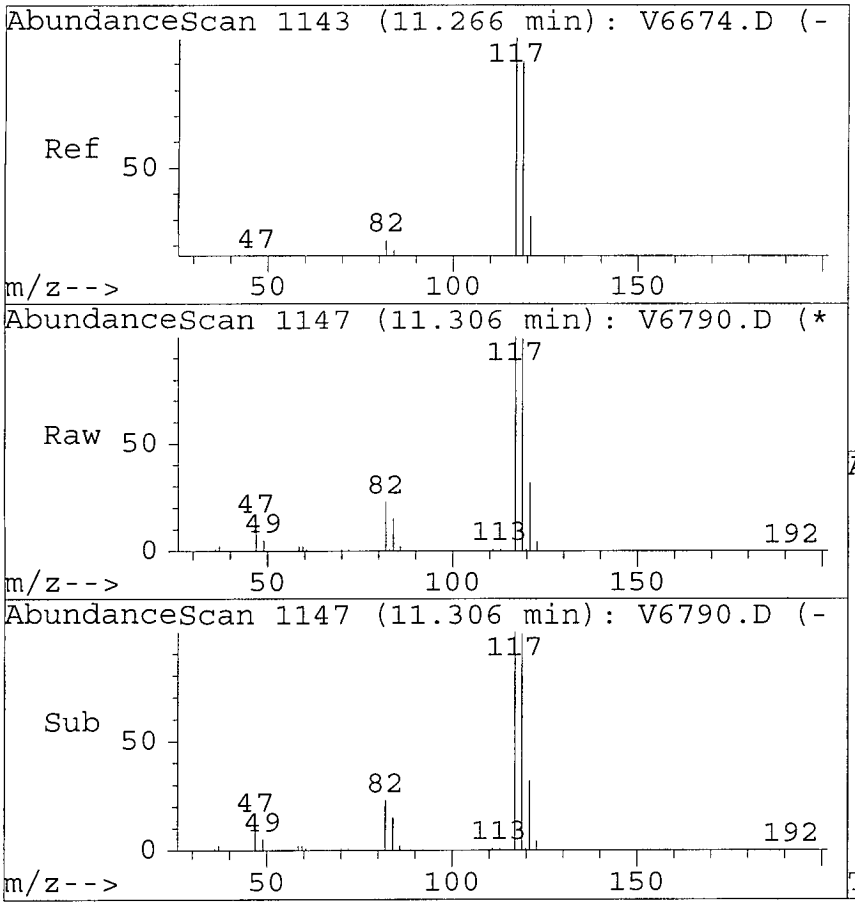


#21
chloroform
Concen: 14.06 ug/L
RT: 10.49 min Scan# 1057
Delta R.T. 0.14 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:83 Resp: 234481

Ion	Ratio	Lower	Upper
83	100		
85	66.4	44.1	81.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0

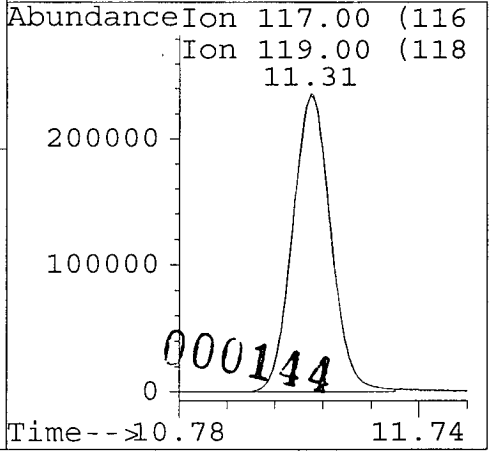




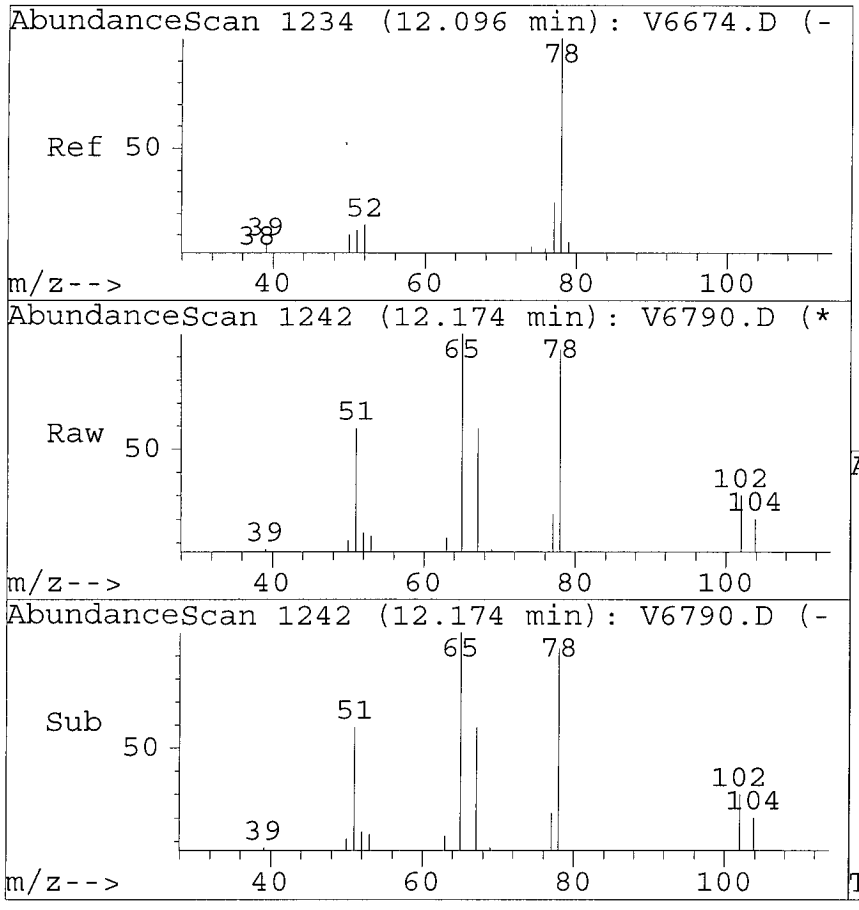
#26
carbon tetrachloride
Concen: 198.48 ug/L
RT: 11.31 min Scan# 1147
Delta R.T. 0.13 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:117 Resp: 2517778

Ion	Ratio	Lower	Upper
117	100		
119	99.5	67.4	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



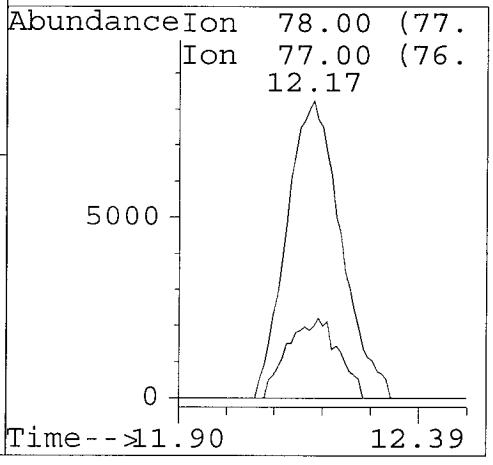
000144

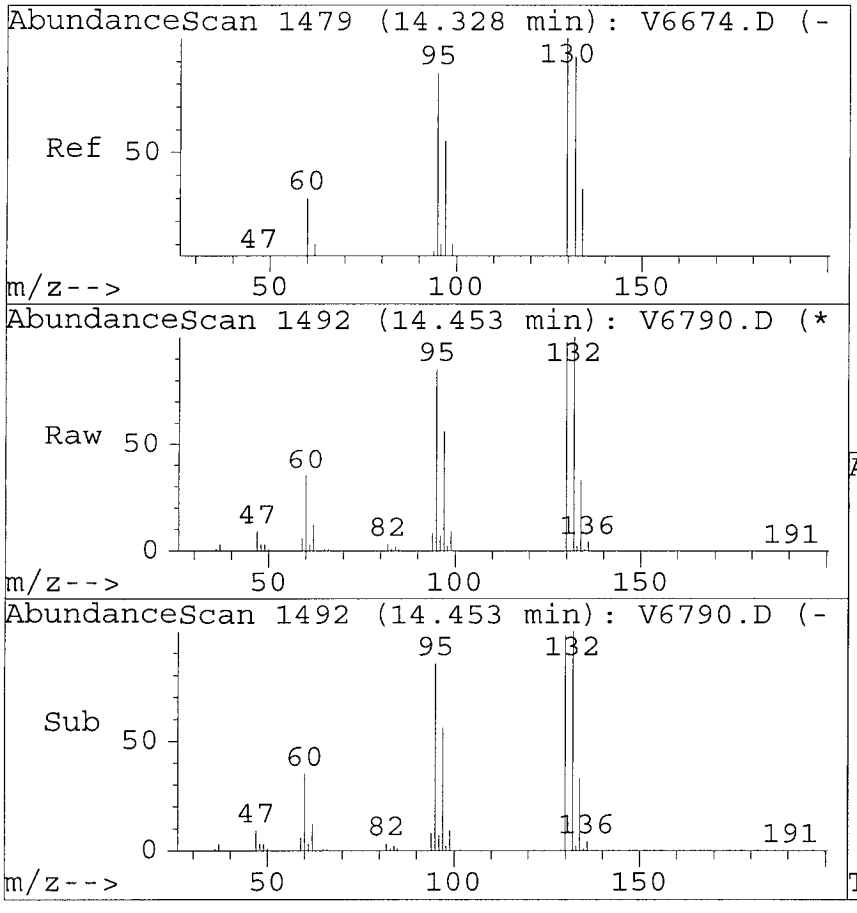


#28
benzene
Concen: 1.83 ug/L
RT: 12.17 min Scan# 1242
Delta R.T. 0.13 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:78 Resp: 63092

Ion	Ratio	Lower	Upper
78	100		
77	24.0	17.4	32.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

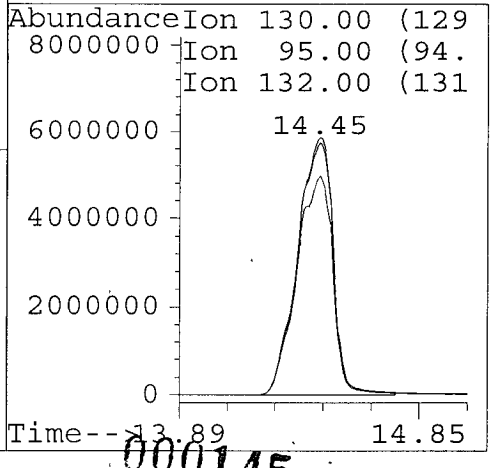




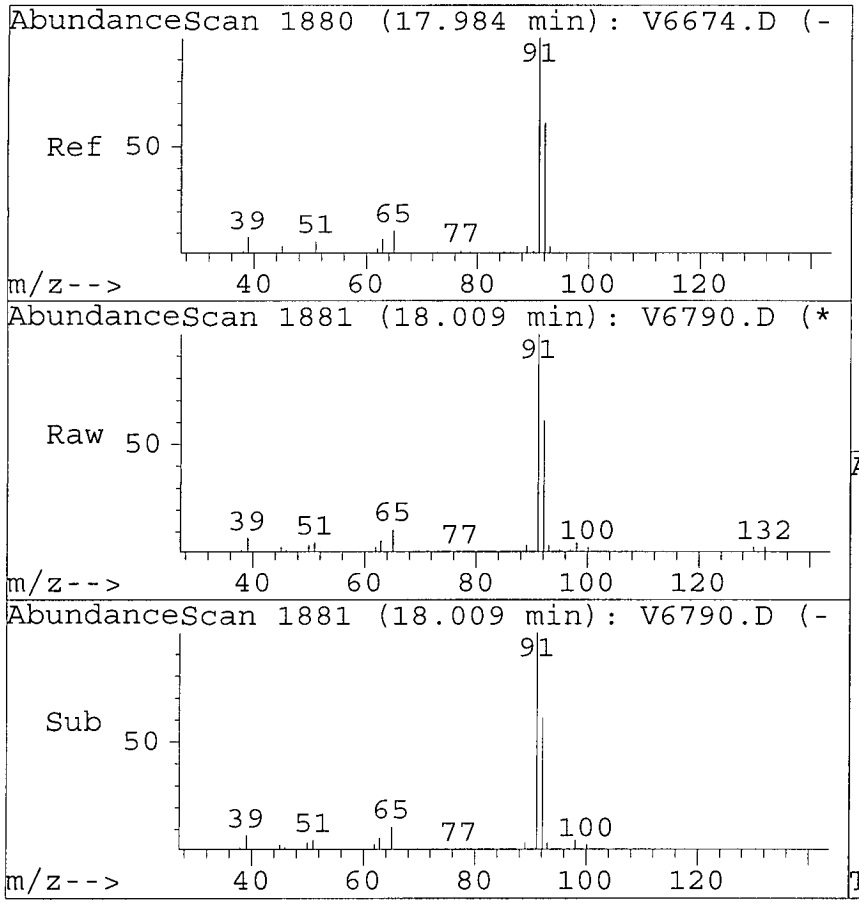
#31
trichloroethene
Concen: 4076.39 ug/L
RT: 14.45 min Scan# 1492
Delta R.T. 0.17 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:130 Resp:56933453

Ion	Ratio	Lower	Upper
130	100		
95	86.4	60.1	111.7
132	101.9	68.5	127.3
0	0.0	0.0	0.0



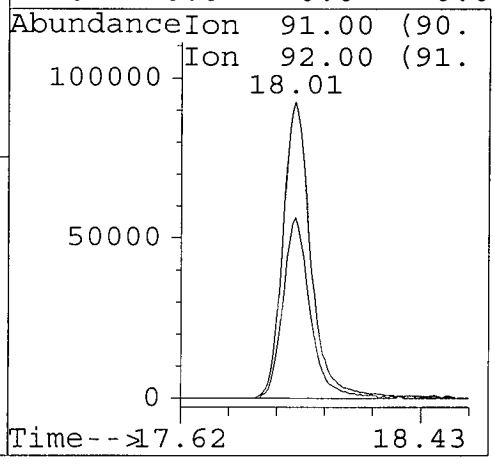
000145

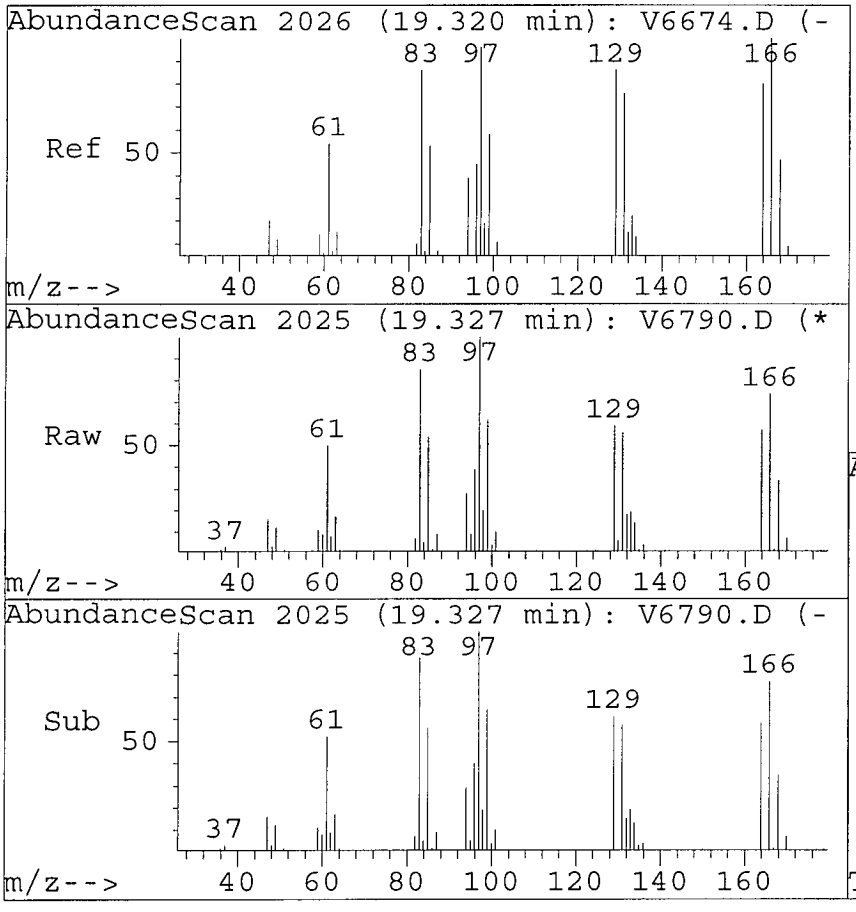


#38
toluene
Concen: 14.70 ug/L
RT: 18.01 min Scan# 1881
Delta R.T. 0.09 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:91 Resp: 605812

Ion	Ratio	Lower	Upper
91	100		
92	60.9	42.1	78.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

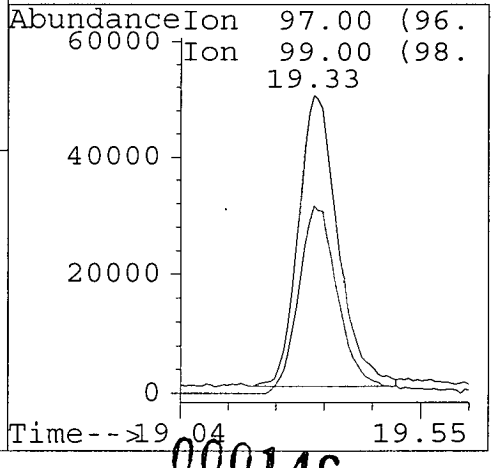




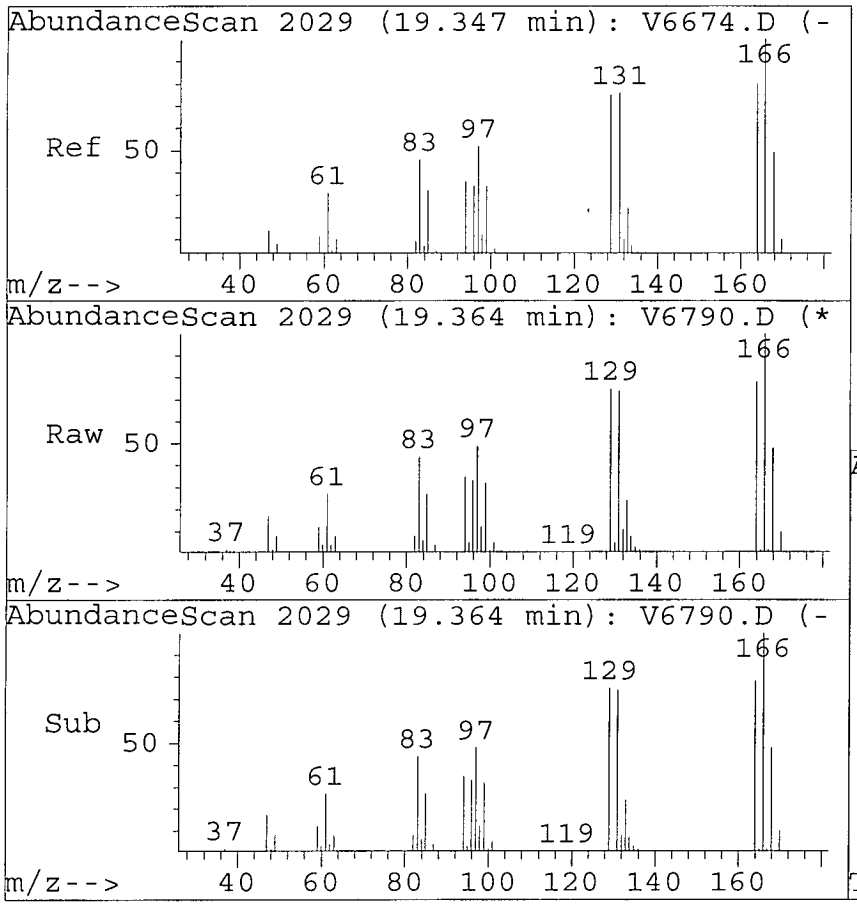
#40
1,1,2-trichloroethane
Concen: 25.99 ug/L
RT: 19.33 min Scan# 2025
Delta R.T. 0.06 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:97 Resp: 287937

Ion	Ratio	Lower	Upper
97	100		
99	62.3	42.6	79.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



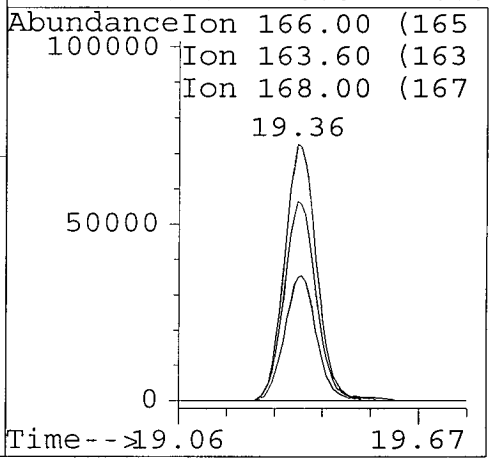
000146

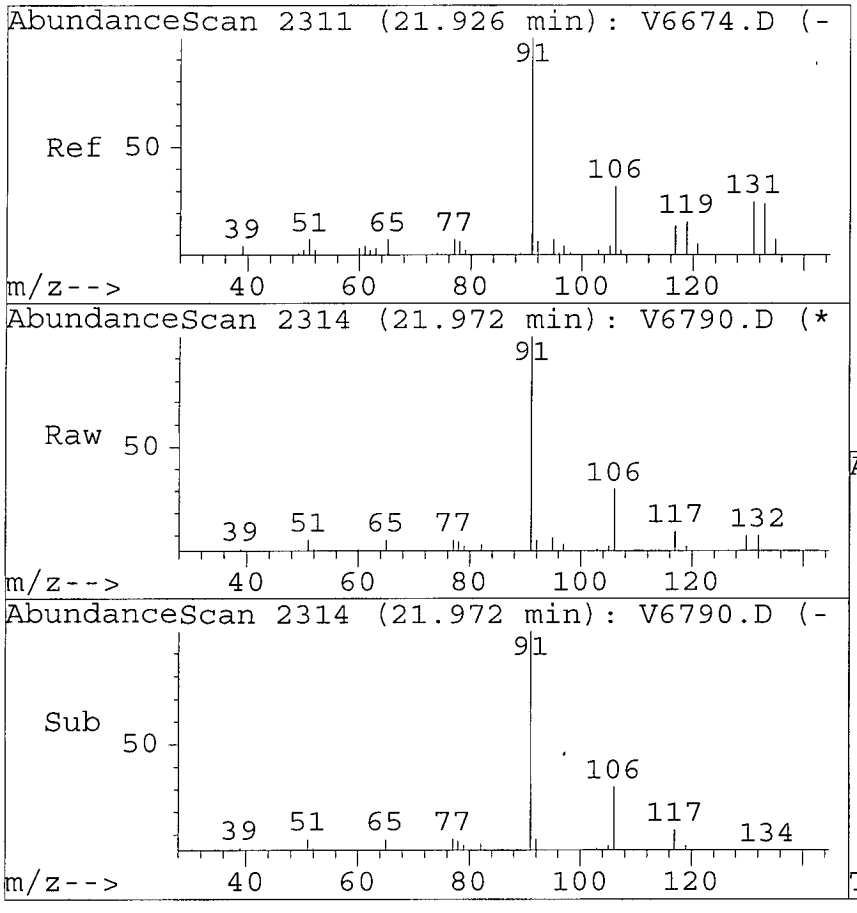


#44
tetrachloroethene
Concen: 30.00 ug/L
RT: 19.36 min Scan# 2029
Delta R.T. 0.07 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:166 Resp: 412723

Ion	Ratio	Lower	Upper
166	100		
164	77.7	54.1	100.5
168	47.9	34.3	63.7
0	0.0	0.0	0.0

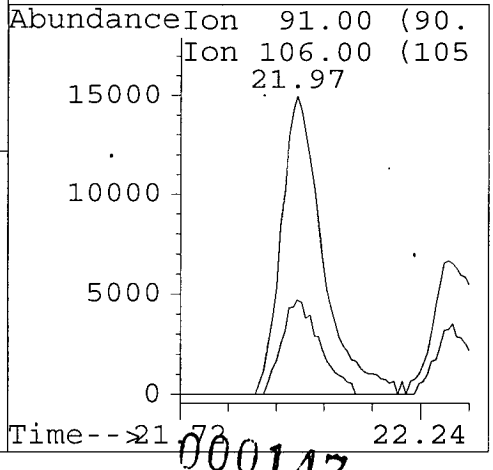




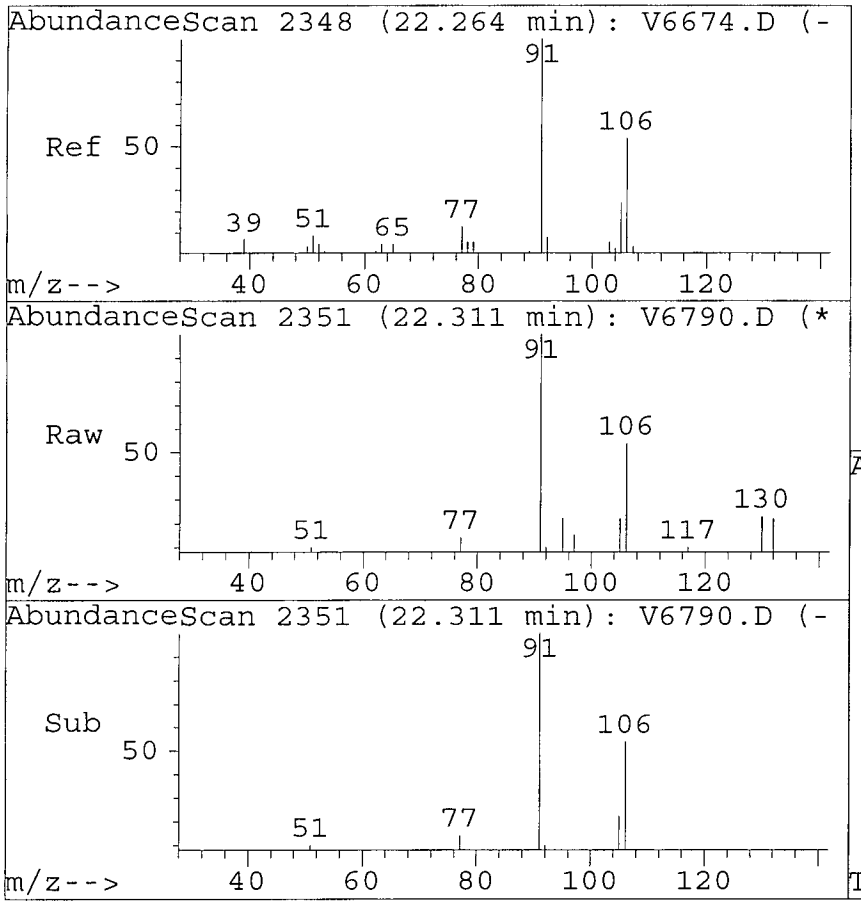
#51
ethylbenzene
Concen: 1.89 ug/L
RT: 21.97 min Scan# 2314
Delta R.T. 0.09 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:91 Resp: 93883

Ion	Ratio	Lower	Upper
91	100		
106	31.3	21.4	39.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



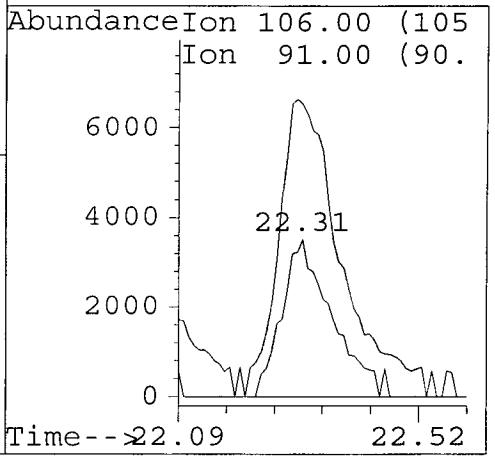
000147

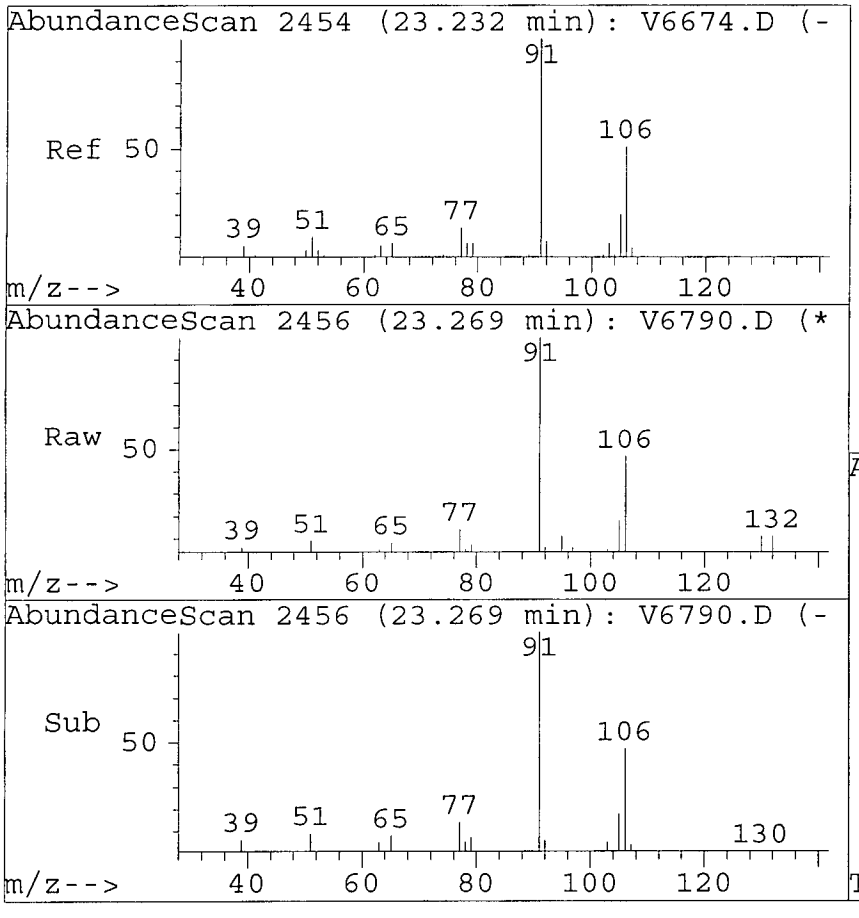


#52
m&p-xylenes
Concen: 1.17 ug/L
RT: 22.31 min Scan# 2351
Delta R.T. 0.10 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:106 Resp: 21855

Ion	Ratio	Lower	Upper
106	100		
91	185.7	137.4	255.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

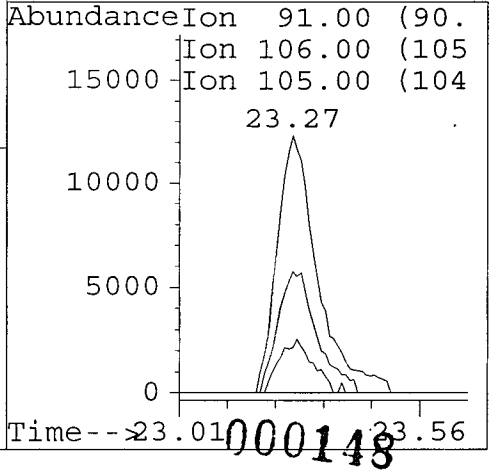




#53
o-xylene
Concen: 2.00 ug/L
RT: 23.27 min Scan# 2456
Delta R.T. 0.09 min
Lab File: V6790.D
Acq: 8 Jun 99 4:17 pm

Tgt Ion:91 Resp: 77442

Ion	Ratio	Lower	Upper
91	100		
106	46.8	34.4	64.0
105	17.6	13.5	25.1
0	0.0	0.0	0.0



000148

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6802.D
Acq Time : 9 Jun 99 12:13 pm
Sample : 12019NJ-74677 100 X DIL
Misc : 5ML
Quant Time: Jun 9 14:16 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	13.23	96	1694423	50.00 ug/L	0.09
42) Chlorobenzene-d5	21.61	117	1636474	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	821406	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.07	113	751426	52.62 ug/L	105.24%
29) 1,2-Dichlorethane-d4	12.25	65	429280	56.07 ug/L	112.14%
37) Toluene-d8	17.82	98	1944808	51.60 ug/L	103.20%
41) 4-Bromofluorobenzene	24.63	95	1170227	47.82 ug/L	95.63%
Target Compounds					Qvalue
31) trichloroethene	14.36	130	1100749	86.15 ug/L	99

000149

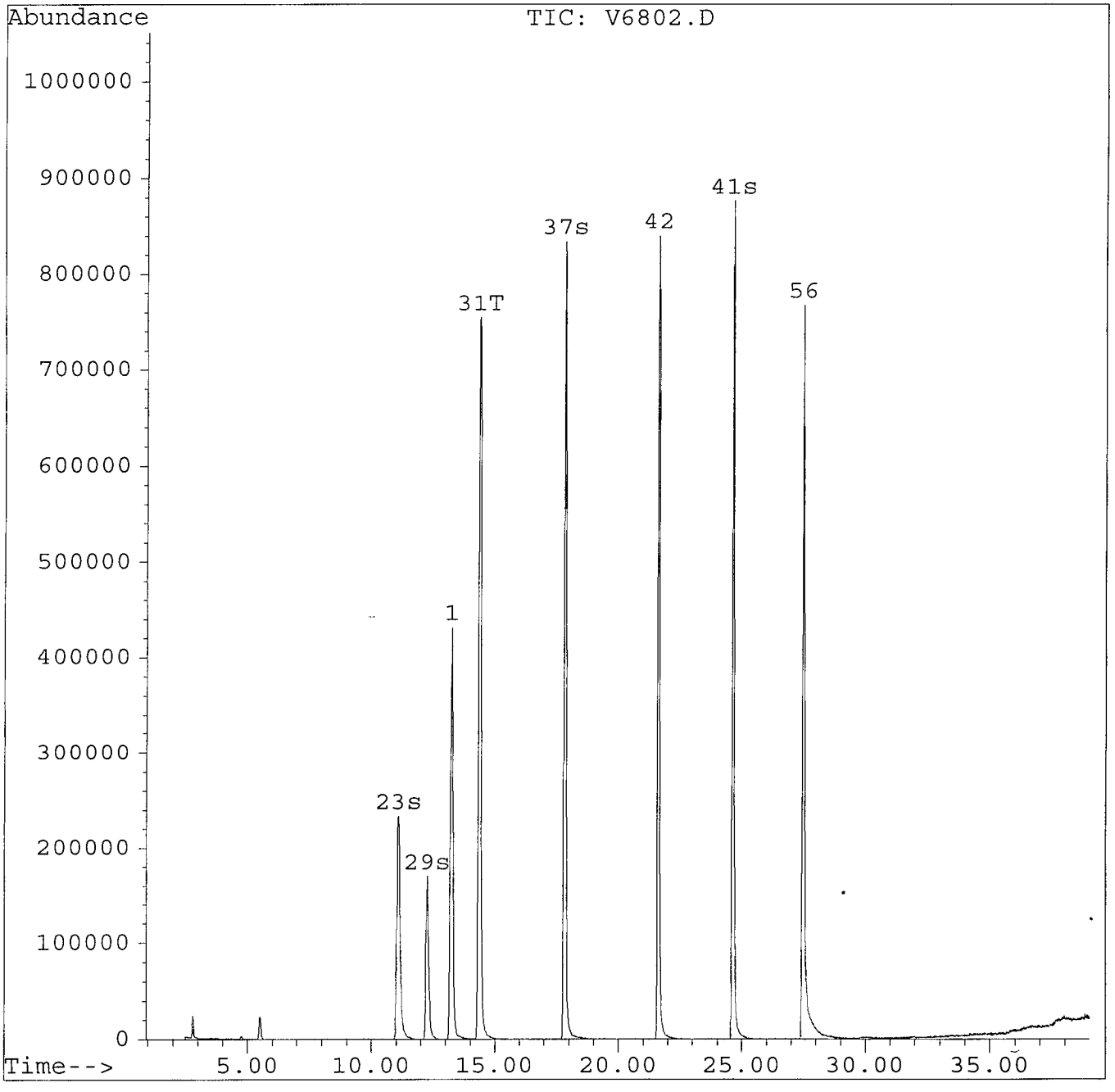
(#) = qualifier out of range (m) = manual integration

Quantitation Report

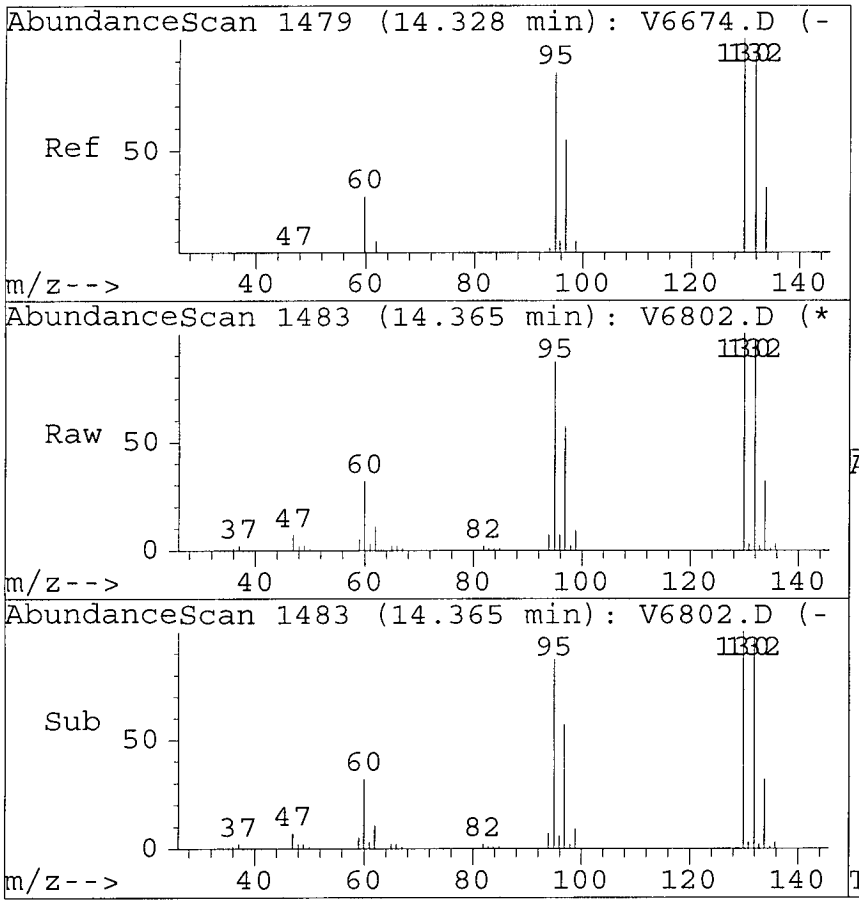
Data File : D:\HPCHEM\1\DATA\V1060999\V6802.D
Acq Time : 9 Jun 99 12:13 pm
Sample : 12019NJ-74677 100 X DIL
Misc : 5ML
Quant Time: Jun 9 14:16 1999

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



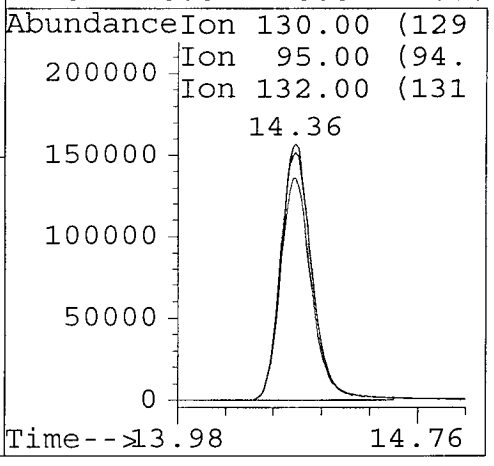
000150



#31
trichloroethene
Concen: 86.15 ug/L
RT: 14.36 min Scan# 1483
Delta R.T. 0.08 min
Lab File: V6802.D
Acq: 9 Jun 99 12:13 pm

Tgt Ion:130 Resp: 1100749

Ion	Ratio	Lower	Upper
130	100		
95	86.9	60.1	111.7
132	96.8	68.5	127.3
0	0.0	0.0	0.0



000151

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6801.D
Acq Time : 9 Jun 99 11:28 am
Sample : 12019NJ-74680
Misc : 5ML
Quant Time: Jun 9 14:11 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	13.23	96	1755511	50.00 ug/L	0.08
42) Chlorobenzene-d5	21.61	117	1700284	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	860814	50.00 ug/L	0.06
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.07	113	762198	51.52 ug/L	103.03%
29) 1,2-Dichlorethane-d4	12.25	65	439403	55.40 ug/L	110.79%
37) Toluene-d8	17.82	98	1965658	50.34 ug/L	100.67%
41) 4-Bromofluorobenzene	24.62	95	1184196	46.70 ug/L	93.40%
Target Compounds					Qvalue
31) trichloroethene	14.37	130	180240	13.62 ug/L	99

000152

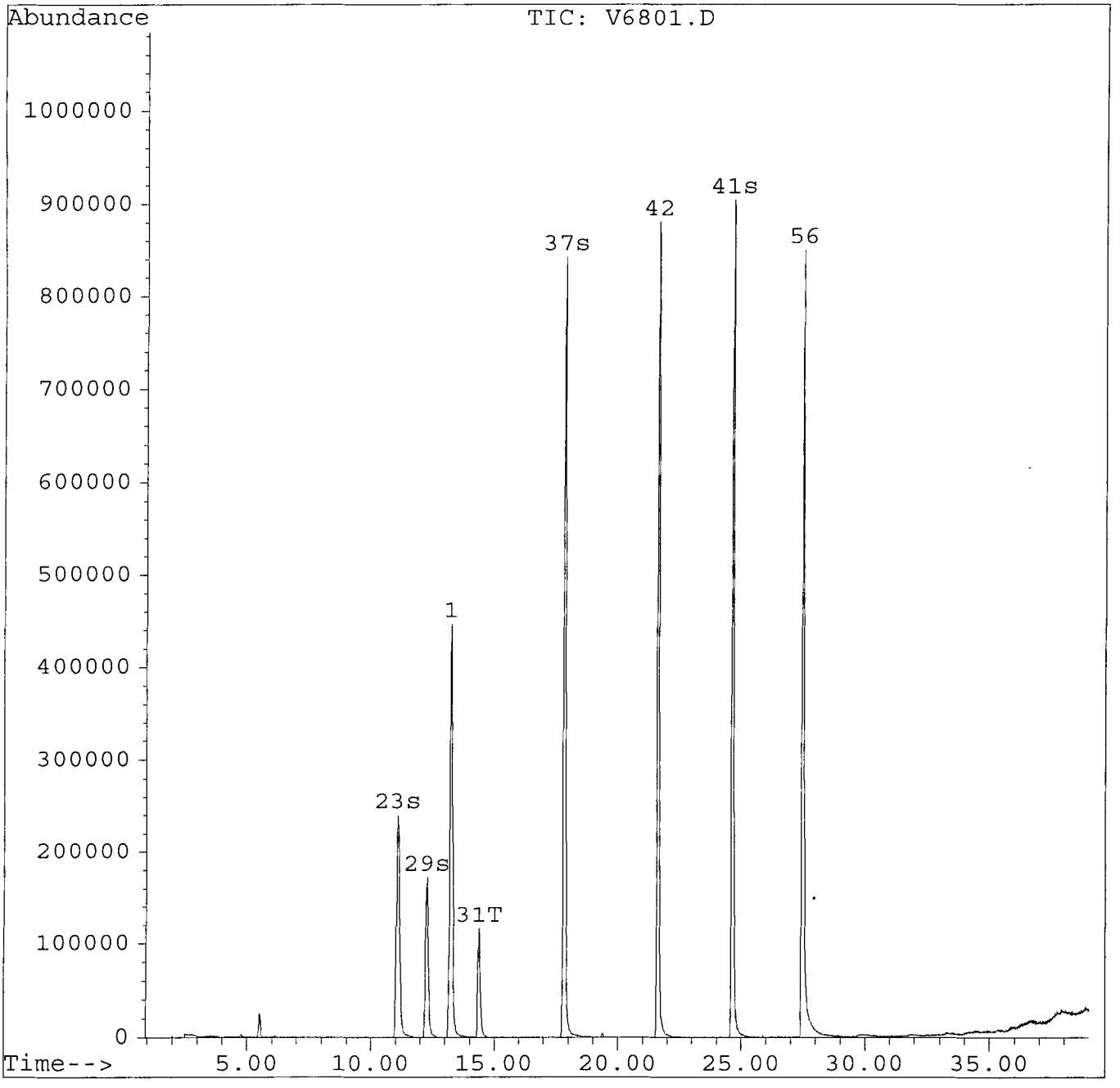
(#) = qualifier out of range (m) = manual integration

Quantitation Report

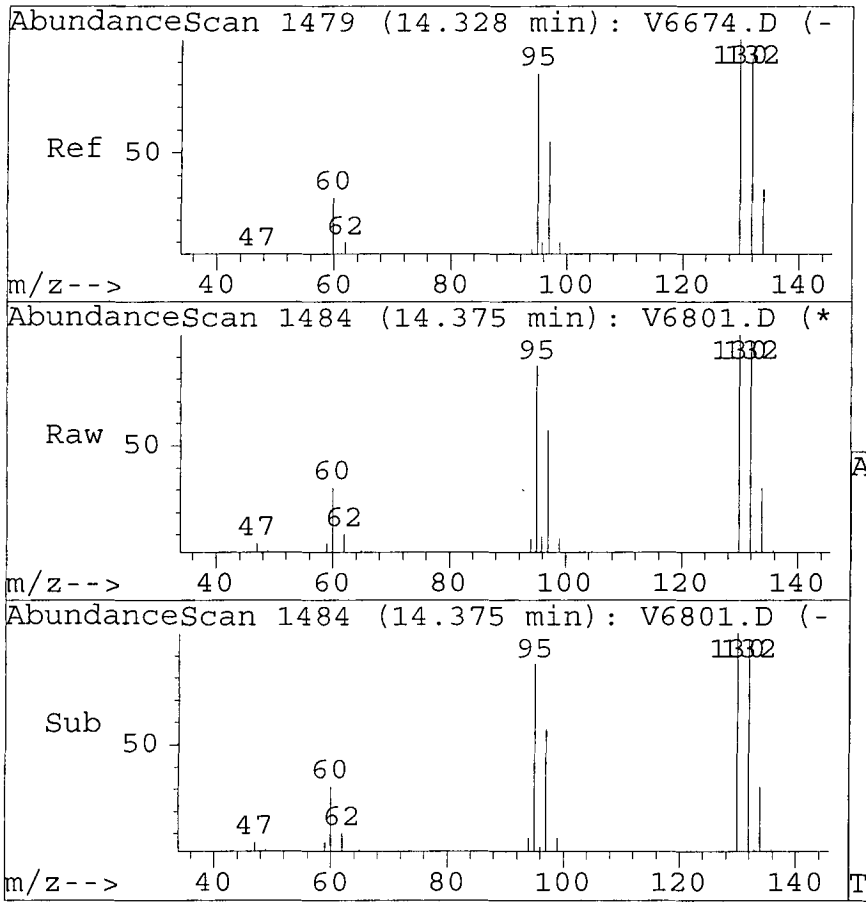
Data File : D:\HPCHEM\1\DATA\V1060999\V6801.D
Acq Time : 9 Jun 99 11:28 am
Sample : 12019NJ-74680
Misc : 5ML
Quant Time: Jun 9 14:11 1999

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



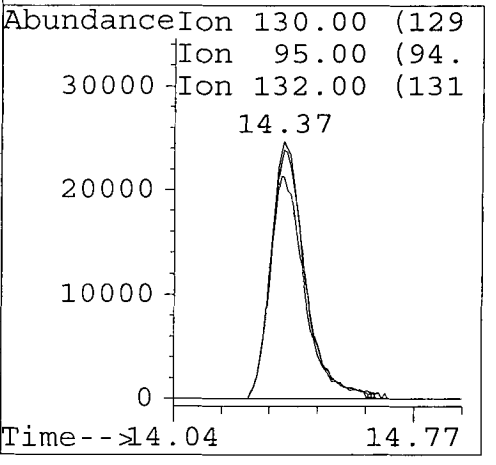
000153



#31
trichloroethene
Concen: 13.62 ug/L
RT: 14.37 min Scan# 1484
Delta R.T. 0.09 min
Lab File: V6801.D
Acq: 9 Jun 99 11:28 am

Tgt Ion:130 Resp: 180240

Ion	Ratio	Lower	Upper
130	100		
95	86.1	60.1	111.7
132	96.5	68.5	127.3
0	0.0	0.0	0.0



000154

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6792.D
Acq Time : 8 Jun 99 5:46 pm
Sample : 12019NJ-74681
Misc : 5ML
Quant Time: Jun 8 21:14 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	13.22	96	1845752	50.00 ug/L	0.08
42) Chlorobenzene-d5	21.61	117	1836722	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	897256	50.00 ug/L	0.07
System Monitoring Compounds					**%Recovery**
23) Dibromofluoromethane	11.07	113	791500	50.88 ug/L	101.76%
29) 1,2-Dichlorethane-d4	12.25	65	447750	53.69 ug/L	107.38%
37) Toluene-d8	17.81	98	2068684	50.38 ug/L	100.77%
41) 4-Bromofluorobenzene	24.63	95	1256087	47.12 ug/L	94.23%

Target Compounds Qvalue

000155

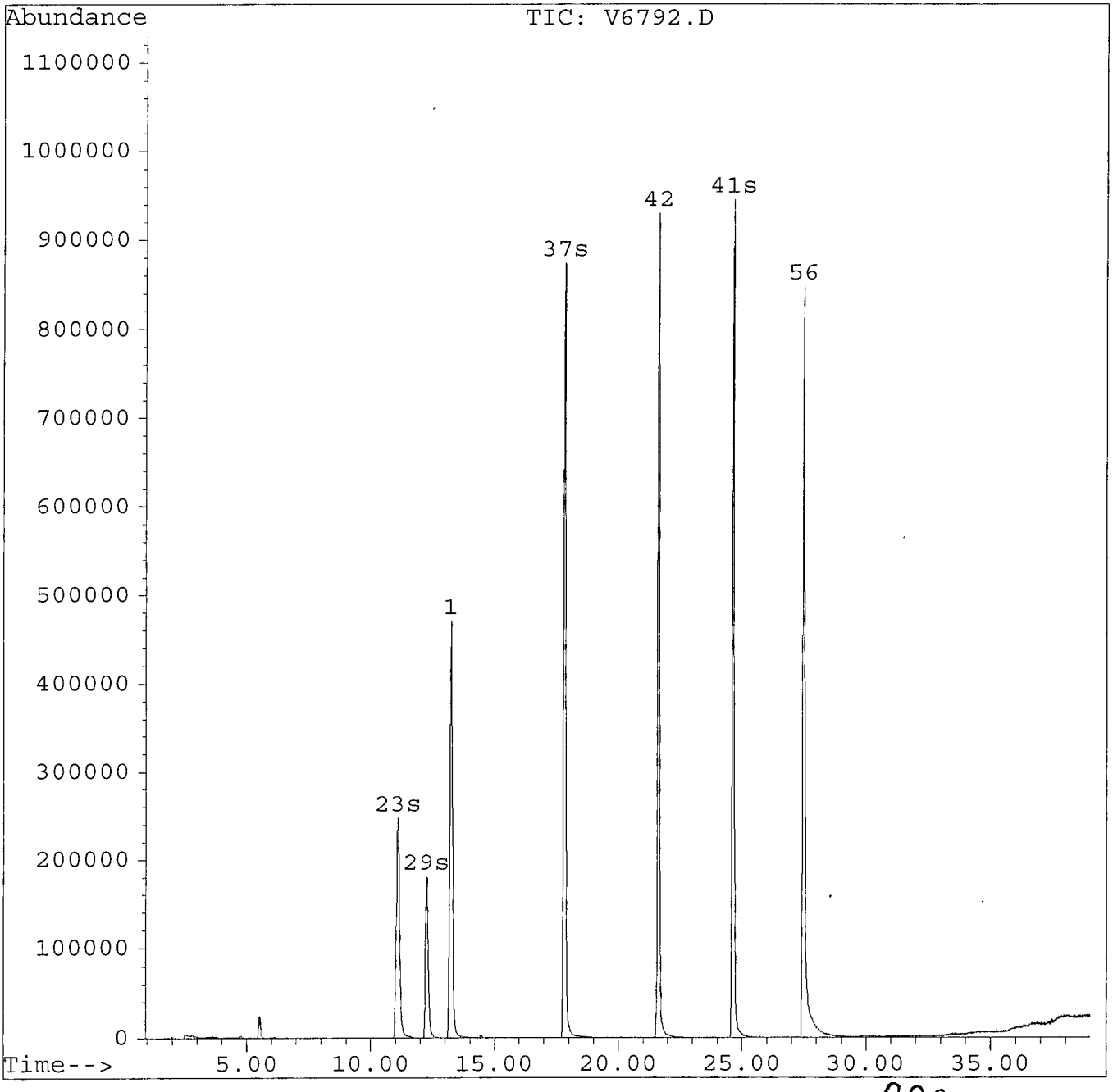
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6792.D
Acq Time : 8 Jun 99 5:46 pm
Sample : 12019NJ-74681
Misc : 5ML
Quant Time: Jun 8 21:14 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



000156

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6793.D
Acq Time : 8 Jun 99 6:31 pm
Sample : 12019NJ-74682
Misc : 5ML
Quant Time: Jun 8 21:15 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	13.22	96	1798215	50.00 ug/L	0.07
42) Chlorobenzene-d5	21.60	117	1783362	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	875725	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.07	113	773457	51.04 ug/L	102.07%
29) 1,2-Dichlorethane-d4	12.25	65	436455	53.72 ug/L	107.44%
37) Toluene-d8	17.82	98	2066112	51.65 ug/L	103.30%
41) 4-Bromofluorobenzene	24.62	95	1225446	47.18 ug/L	94.36%
Target Compounds					Qvalue
31) trichloroethene	14.38	130	129171	9.53 ug/L	98

000157

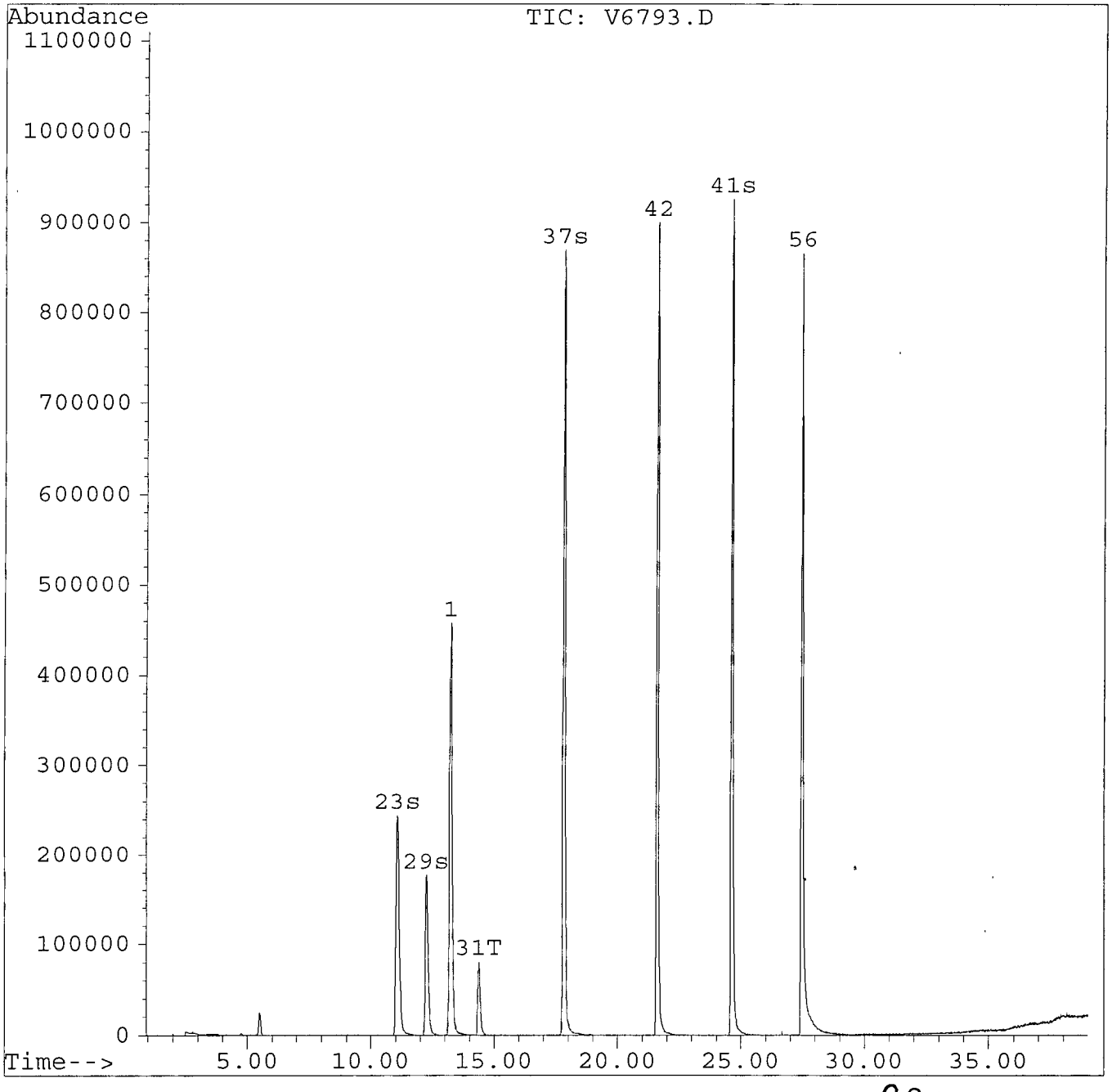
(#) = qualifier out of range (m) = manual integration

Quantitation Report

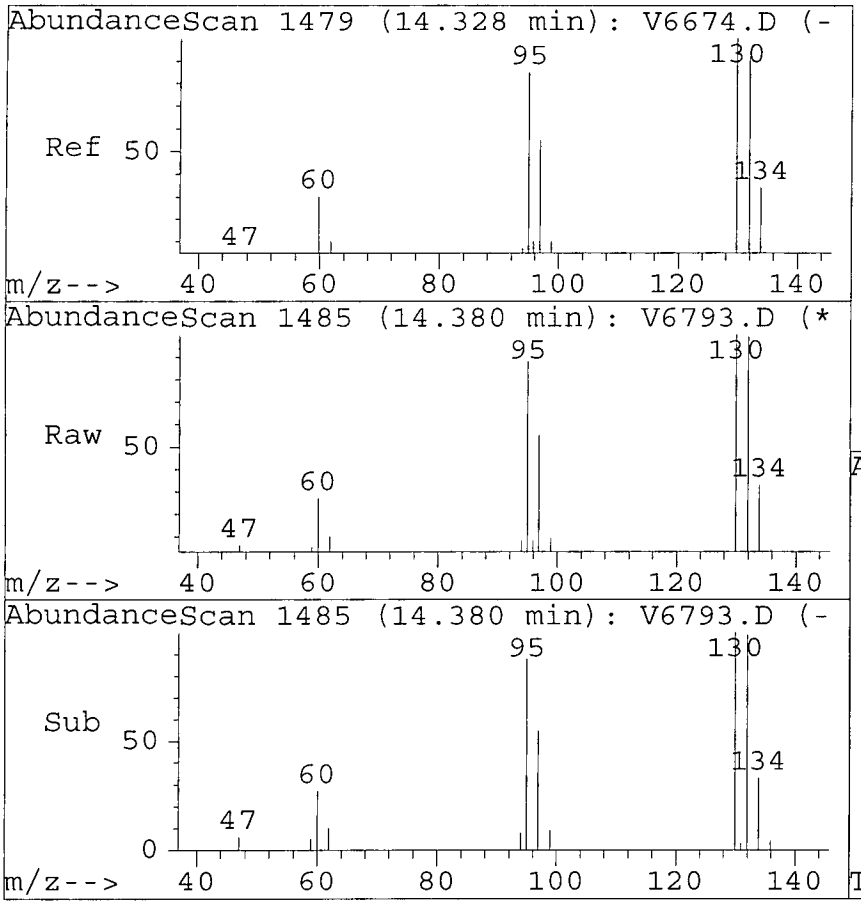
Data File : D:\HPCHEM\1\DATA\V1060899\V6793.D
Acq Time : 8 Jun 99 6:31 pm
Sample : 12019NJ-74682
Misc : 5ML
Quant Time: Jun 8 21:15 1999

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



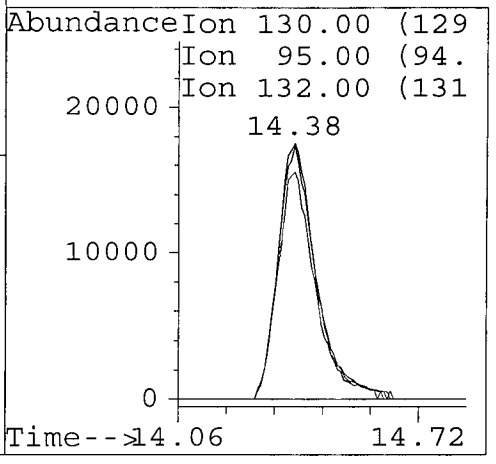
000158



#31
trichloroethene
Concen: 9.53 ug/L
RT: 14.38 min Scan# 1485
Delta R.T. 0.09 min
Lab File: V6793.D
Acq: 8 Jun 99 6:31 pm

Tgt Ion:130 Resp: 129171

Ion	Ratio	Lower	Upper
130	100		
95	88.4	60.1	111.7
132	98.9	68.5	127.3
0	0.0	0.0	0.0



000159

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6794.D
Acq Time : 8 Jun 99 7:16 pm
Sample : 12019NJ-74683
Misc : 5ML
Quant Time: Jun 9 7:13 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	13.25	96	1740465	50.00 ug/L	0.10
42) Chlorobenzene-d5	21.61	117	1546443	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.45	152	815031	50.00 ug/L	0.06
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.10	113	734093	50.05 ug/L	100.09%
29) 1,2-Dichlorethane-d4	12.28	65	407914	51.87 ug/L	103.74%
37) Toluene-d8	17.84	98	1734925	44.81 ug/L	89.62%
41) 4-Bromofluorobenzene	24.62	95	1217309	48.42 ug/L	96.85%
Target Compounds					Qvalue
8) trichlorofluoromethane	3.55	101	20470	2.21 ug/L	99
9) 1,1-dichloroethene	4.46	61	121278	12.44 ug/L	94
10) Acetone	4.76	43	13156	6.50 ug/L	86
11) Carbon Disulfide	4.82	76	31069	1.45 ug/L	97
19) cis-1,2-dichloroethene	9.17	61	347658	29.40 ug/L	91
21) chloroform	10.47	83	1971850	125.85 ug/L	99
26) carbon tetrachloride	11.35	117	25593252	2147.00 ug/L	97
28) benzene	12.18	78	544433	16.80 ug/L	99
30) 1,2-dichloroethane	12.57	62	41557	5.17 ug/L	99
31) trichloroethene	14.47	130	180364742	13742.69 ug/L m	9
38) toluene	18.01	91	5664392	146.23 ug/L	100
40) 1,1,2-trichloroethane	19.33	97	1671613	160.55 ug/L	98
44) tetrachloroethene	19.37	166	2686261	219.78 ug/L	99
51) ethylbenzene	21.95	91	1183762	26.81 ug/L	99
52) m&p-xylenes	22.27	106	319411	19.20 ug/L	98
53) o-xylene	23.24	91	900263	26.18 ug/L	99
57) isopropylbenzene	24.17	105	307536	6.11 ug/L	99
61) n-propylbenzene	24.18	120	86815	6.04 ug/L	99
71) 1,2-dichlorobenzene	28.43	146	24881	1.04 ug/L	97

000160

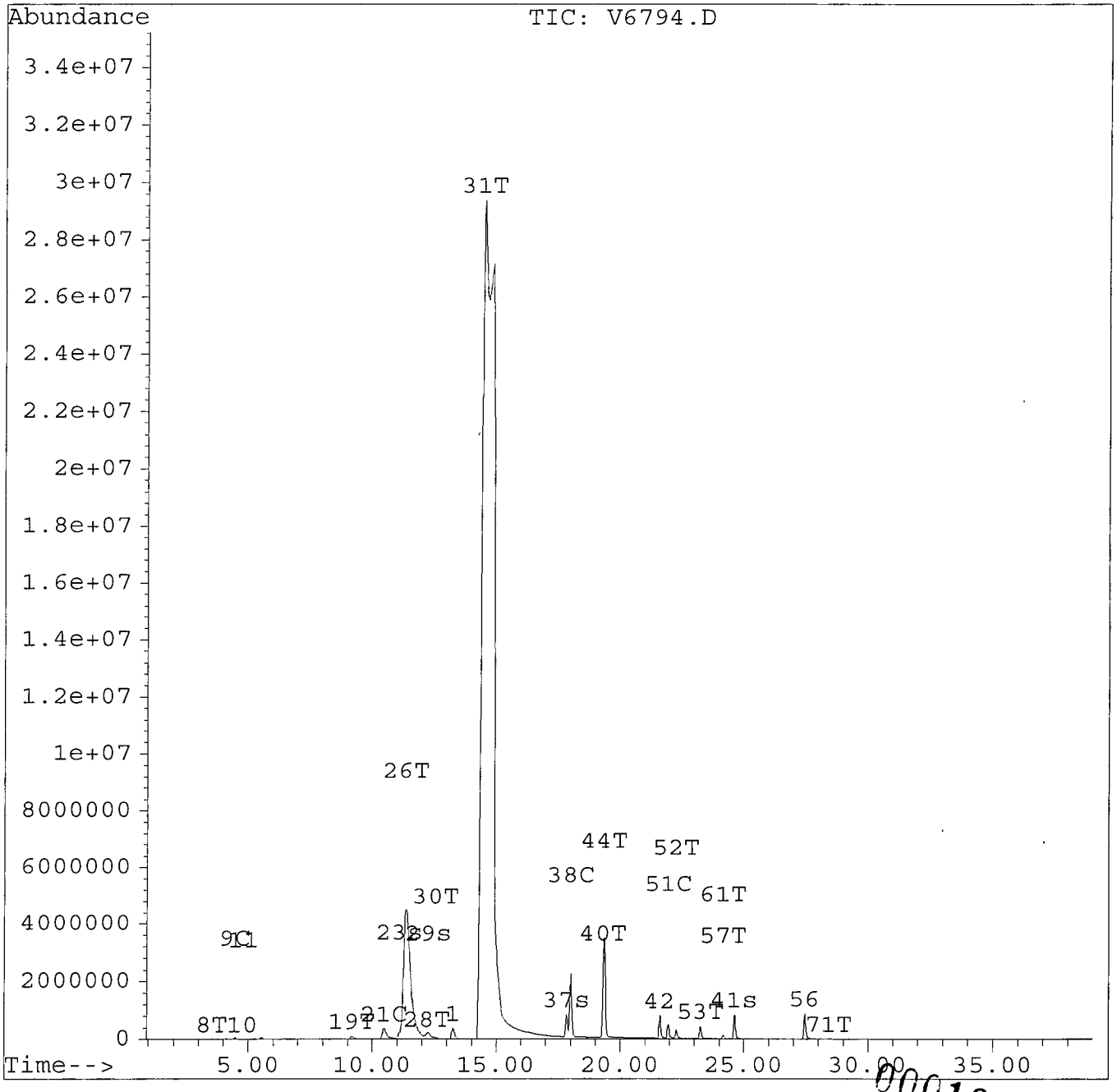
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6794.D
Acq Time : 8 Jun 99 7:16 pm
Sample : 12019NJ-74683
Misc : 5ML
Quant Time: Jun 9 7:13 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



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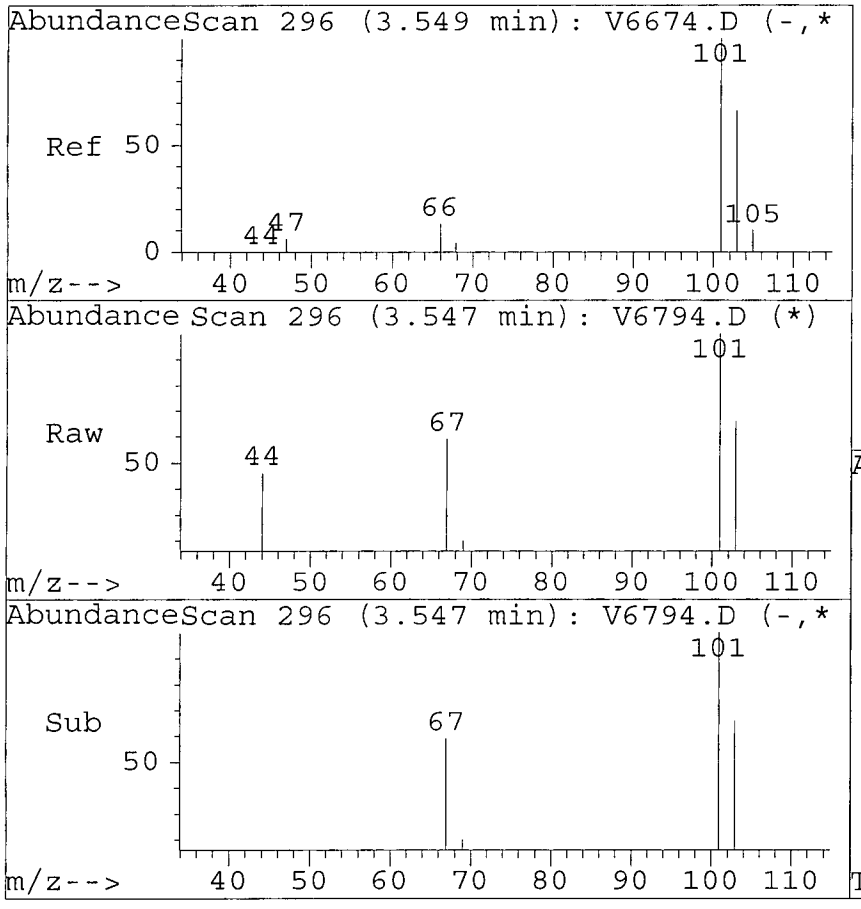
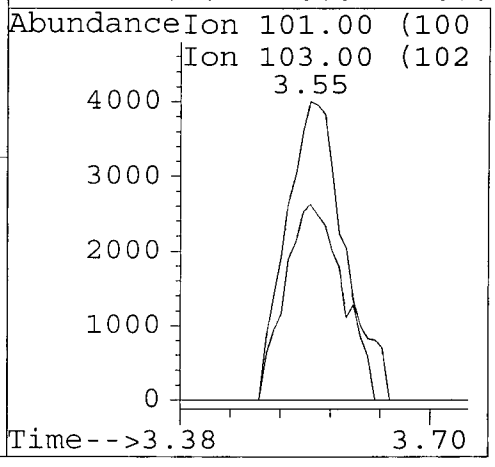
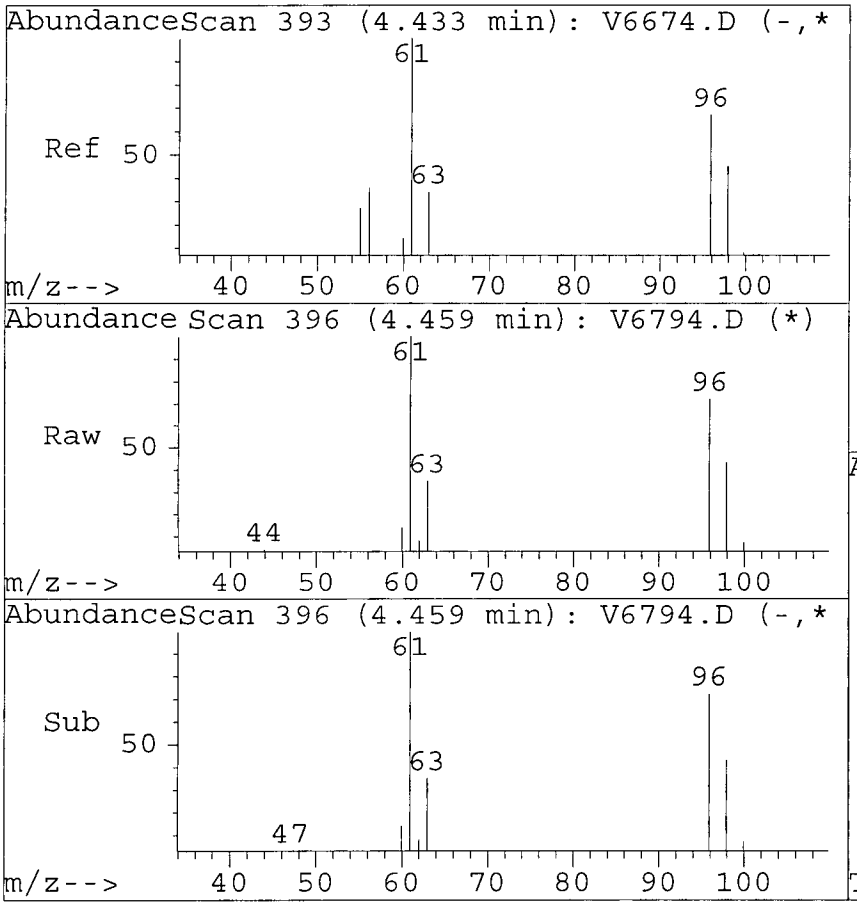


#8
trichlorofluoromethane
Concen: 2.21 ug/L
RT: 3.55 min Scan# 296
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:101 Resp: 20470

Ion	Ratio	Lower	Upper
101	100		
103	65.6	46.4	86.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

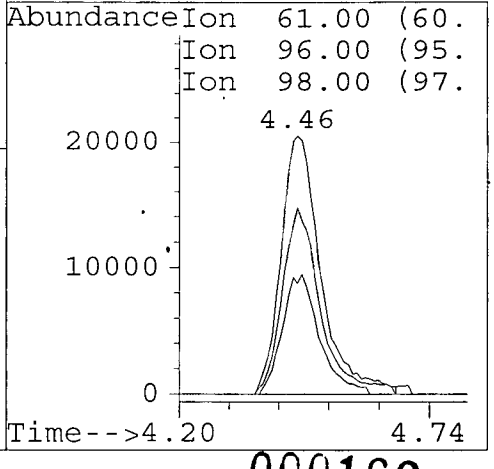




#9
1,1-dichloroethene
Concen: 12.44 ug/L
RT: 4.46 min Scan# 396
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:61 Resp: 121278

Ion	Ratio	Lower	Upper
61	100		
96	71.9	25.8	103.0
98	42.9	25.4	59.2
0	0.0	0.0	0.0



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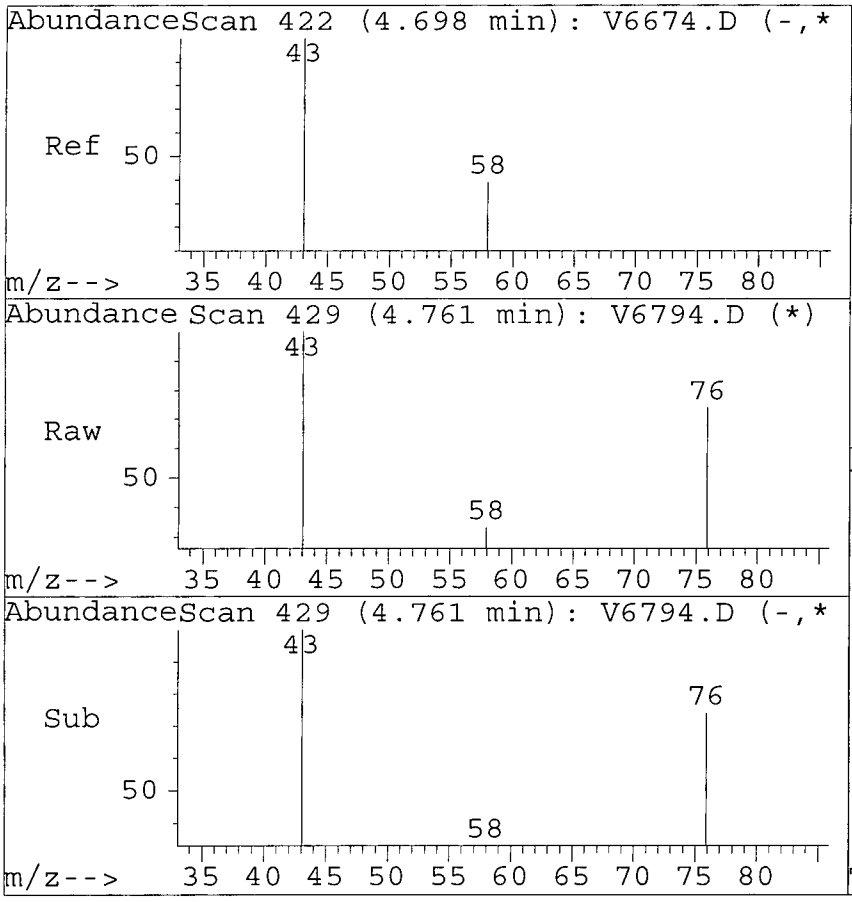
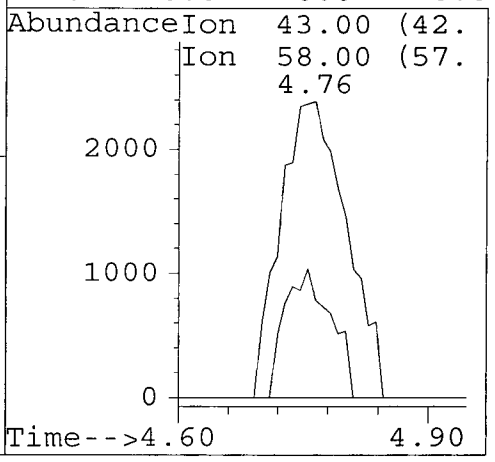
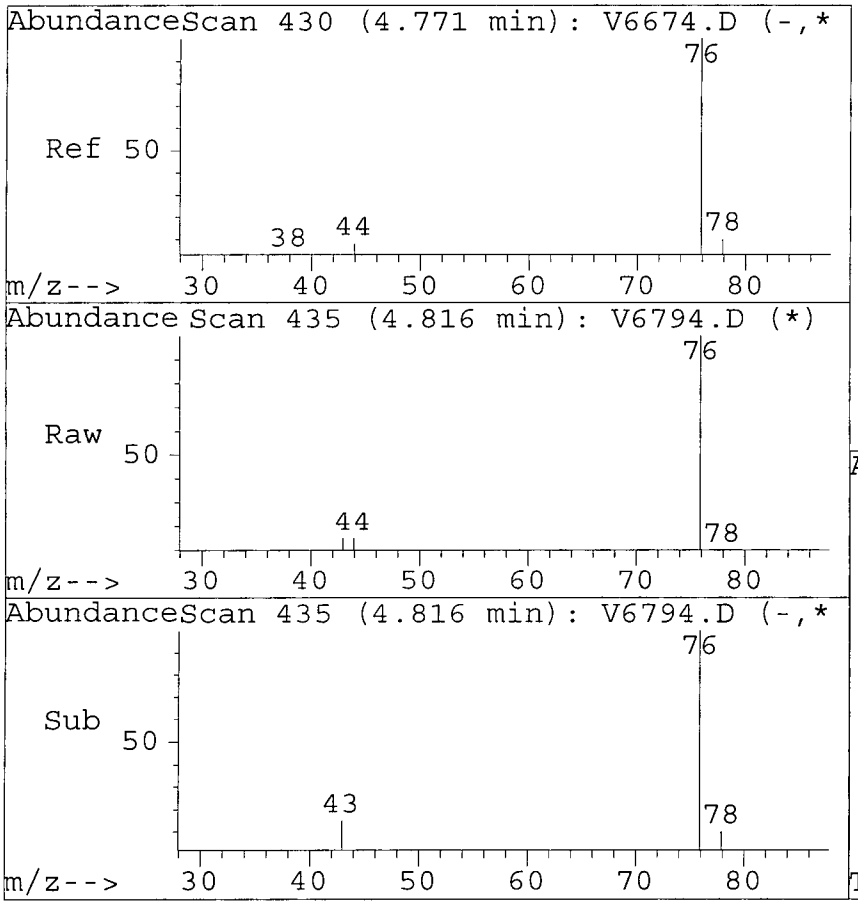


#10
Acetone
Concen: 6.50 ug/L
RT: 4.76 min Scan# 429
Delta R.T. 0.05 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:43 Resp: 13156

Ion	Ratio	Lower	Upper
43	100		
58	30.4	27.3	50.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

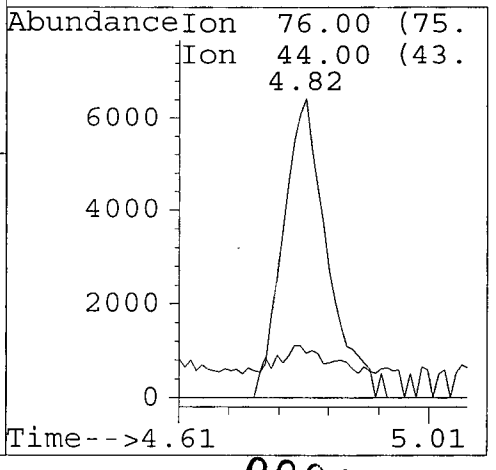




#11
Carbon Disulfide
Concen: 1.45 ug/L
RT: 4.82 min Scan# 435
Delta R.T. 0.08 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:76 Resp: 31069

Ion	Ratio	Lower	Upper
76	100		
44	8.5	3.7	11.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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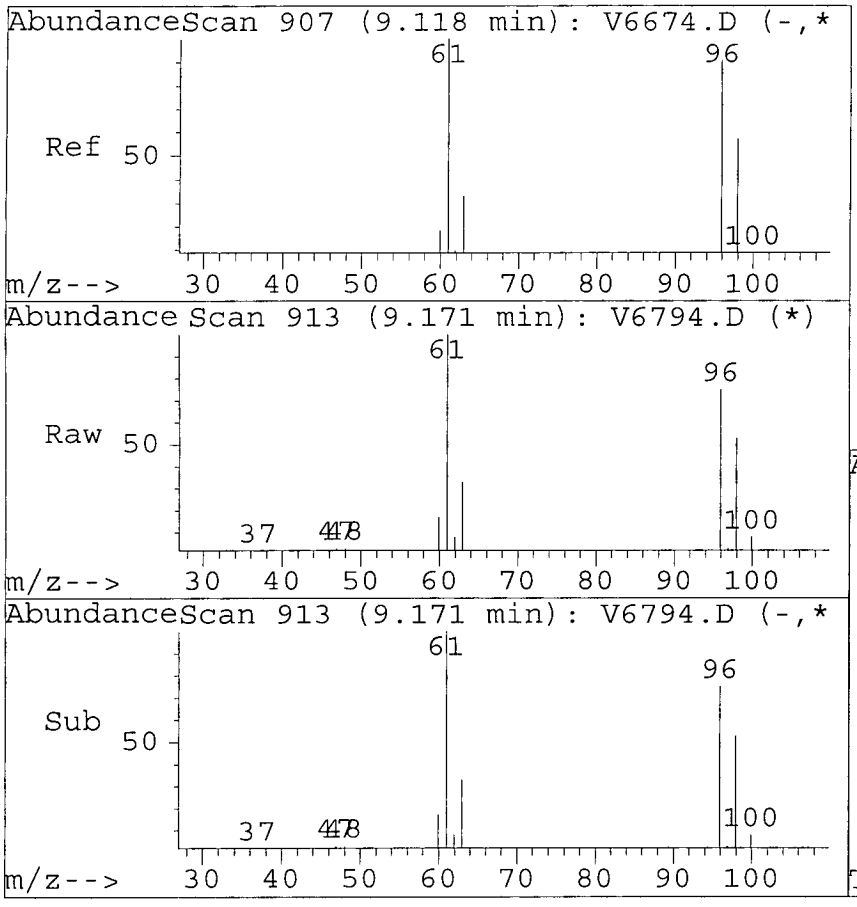
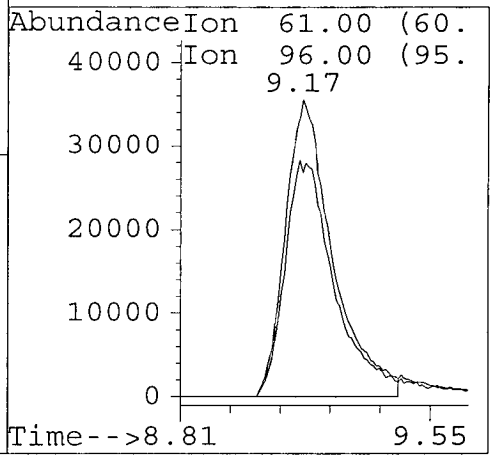
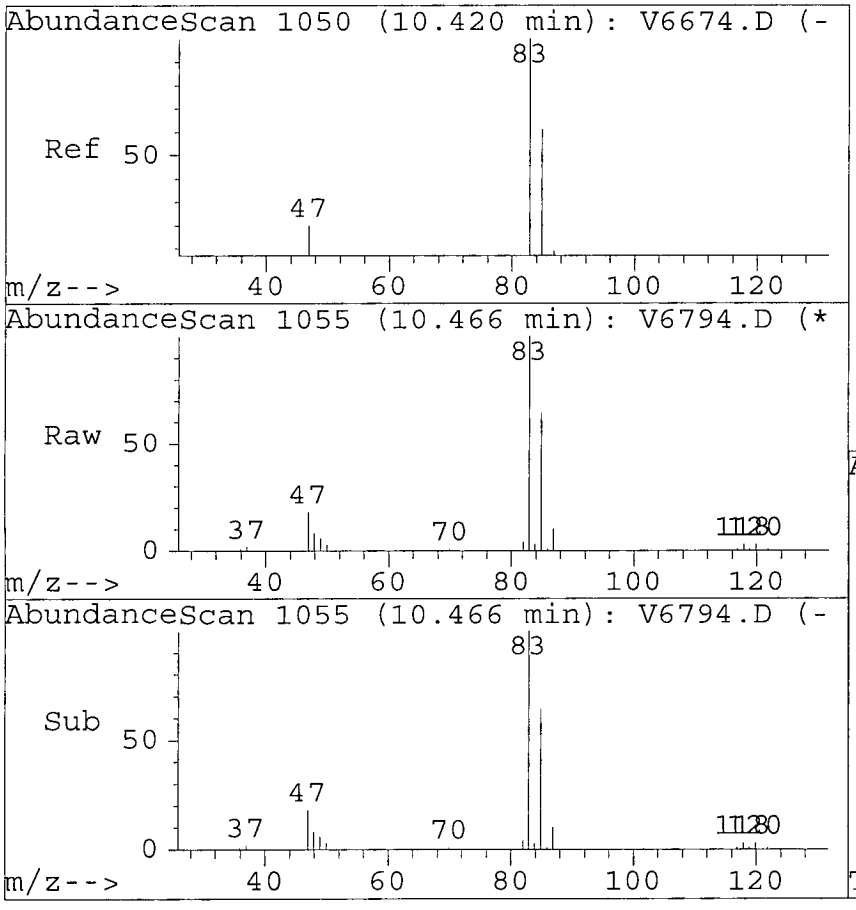


#19
cis-1,2-dichloroethene
Concen: 29.40 ug/L
RT: 9.17 min Scan# 913
Delta R.T. 0.11 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:61 Resp: 347658

Ion	Ratio	Lower	Upper
61	100		
96	75.3	58.2	108.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0

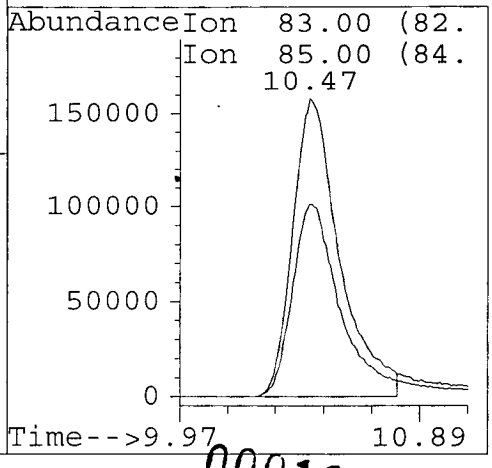




#21
chloroform
Concen: 125.85 ug/L
RT: 10.47 min Scan# 1055
Delta R.T. 0.12 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:83 Resp: 1971850

Ion	Ratio	Lower	Upper
83	100		
85	63.8	44.1	81.9
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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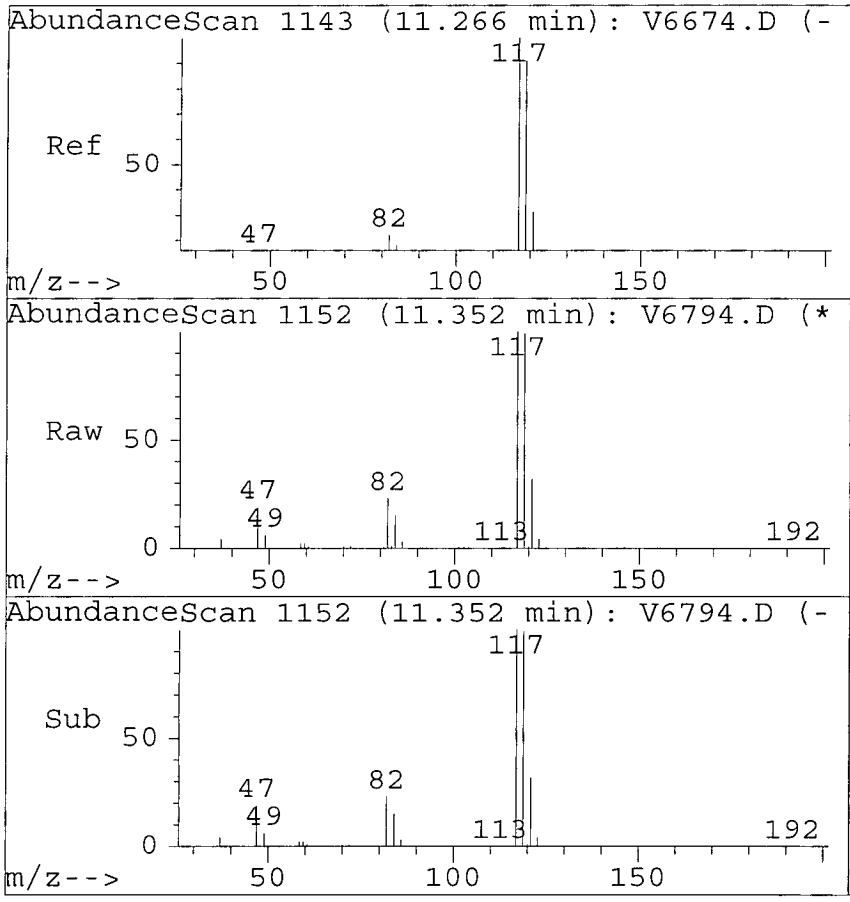
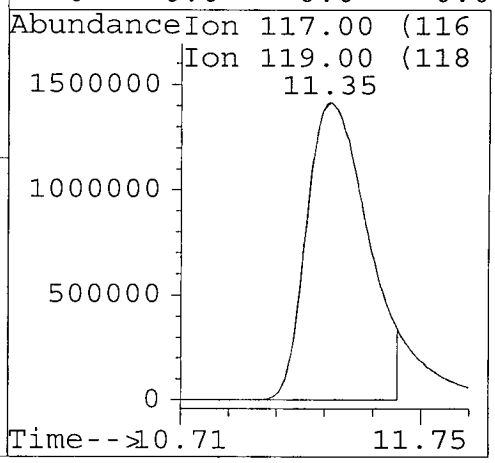
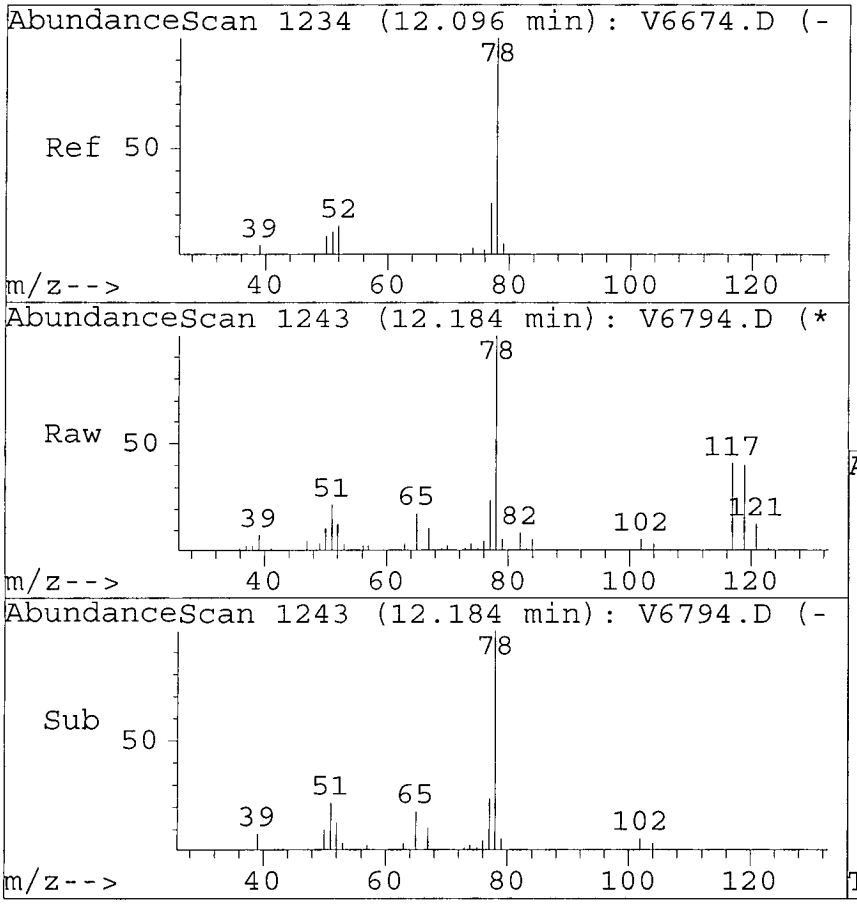


#26
carbon tetrachloride
Concen: 2147.00 ug/L
RT: 11.35 min Scan# 1152
Delta R.T. 0.17 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:117 Resp:25593252

Ion	Ratio	Lower	Upper
117	100		
119	99.5	67.4	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

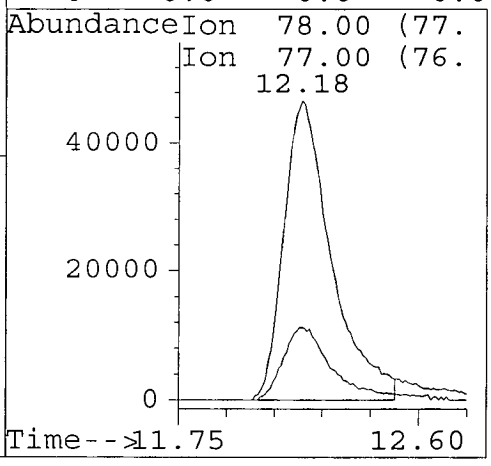


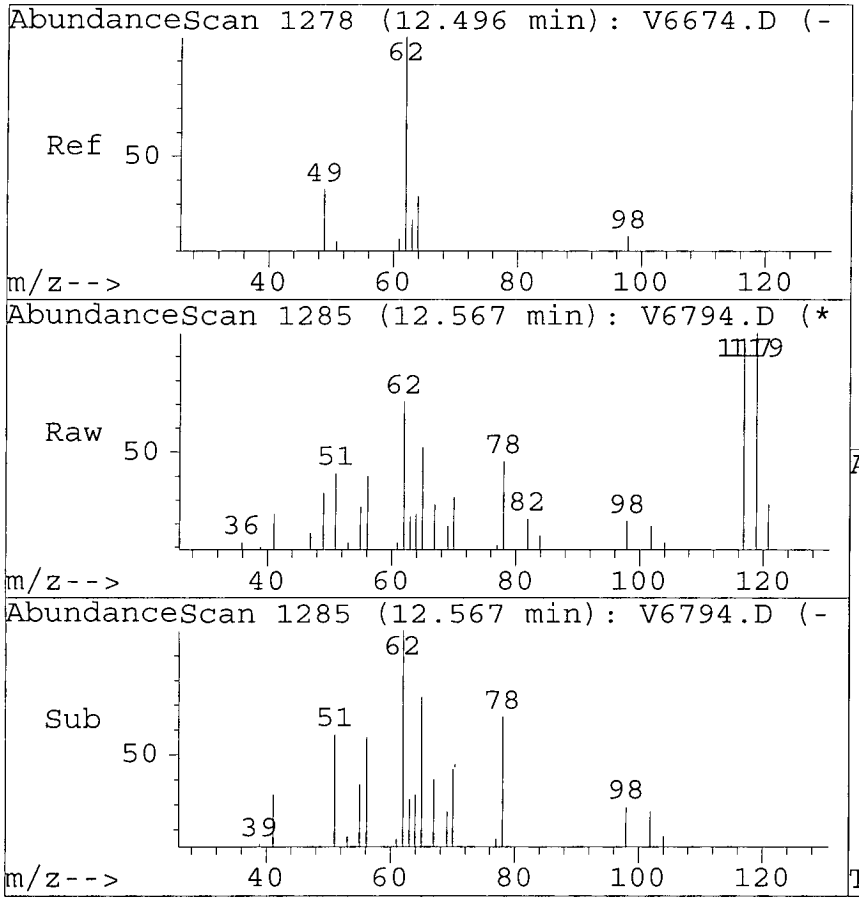


#28
benzene
Concen: 16.80 ug/L
RT: 12.18 min Scan# 1243
Delta R.T. 0.14 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:78 Resp: 544433

Ion	Ratio	Lower	Upper
78	100		
77	24.2	17.4	32.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

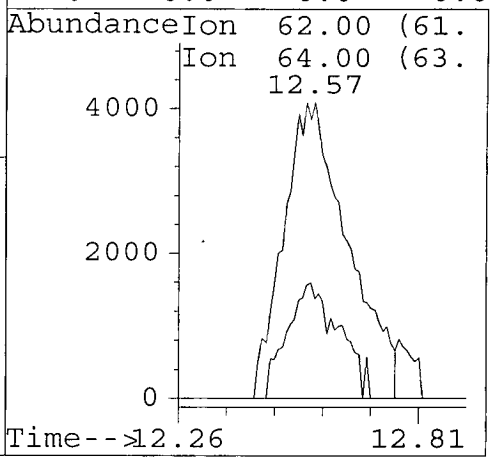


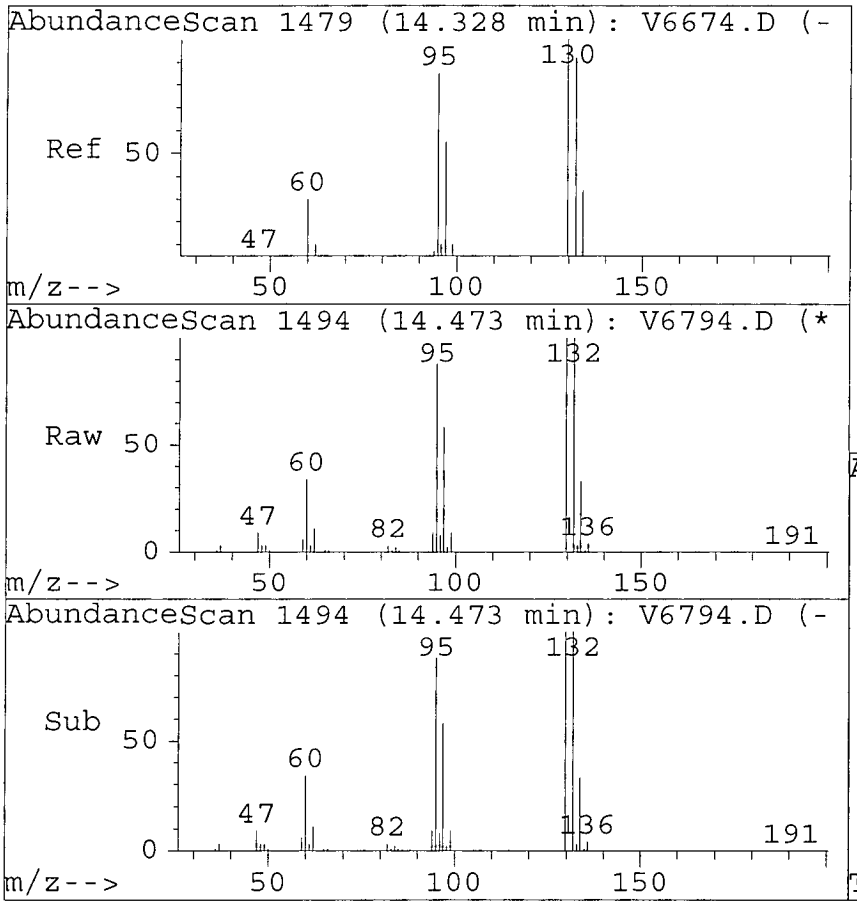


#30
1,2-dichloroethane
Concen: 5.17 ug/L
RT: 12.57 min Scan# 1285
Delta R.T. 0.13 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:62 Resp: 41557

Ion	Ratio	Lower	Upper
62	100		
64	33.6	23.2	43.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

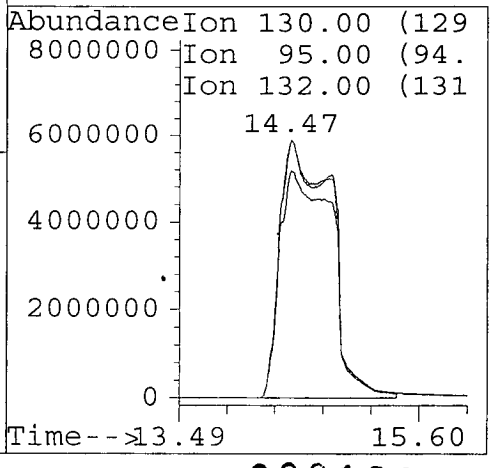




#31
trichloroethene
Concen: 13742.69 ug/L m
RT: 14.47 min Scan# 1494
Delta R.T. 0.18 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:130 Resp:180364742

Ion	Ratio	Lower	Upper
130	100		
95	85.2	60.1	111.7
132	91.6	68.5	127.3
0	0.0	0.0	0.0



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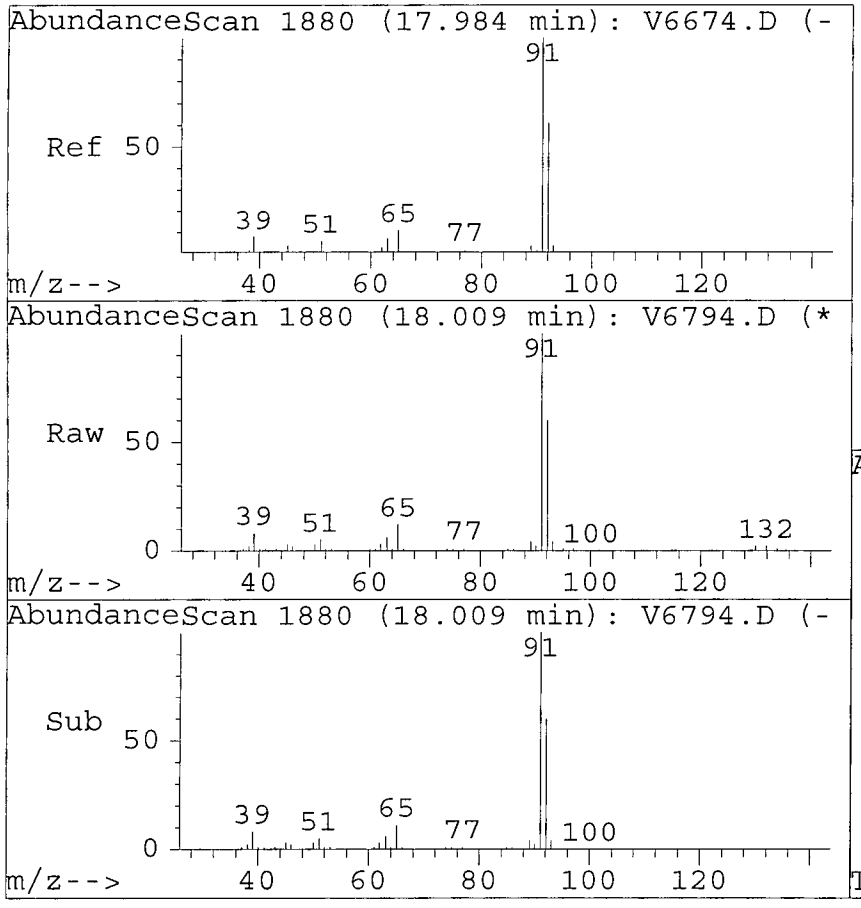
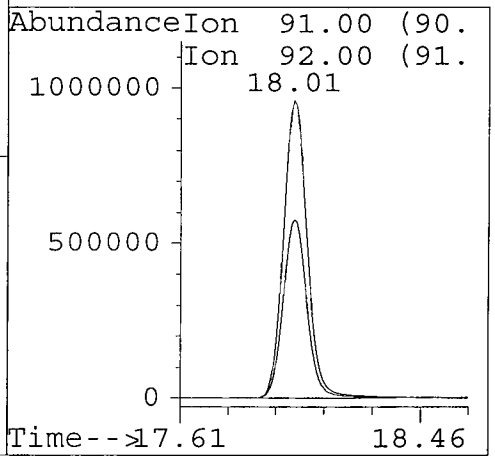
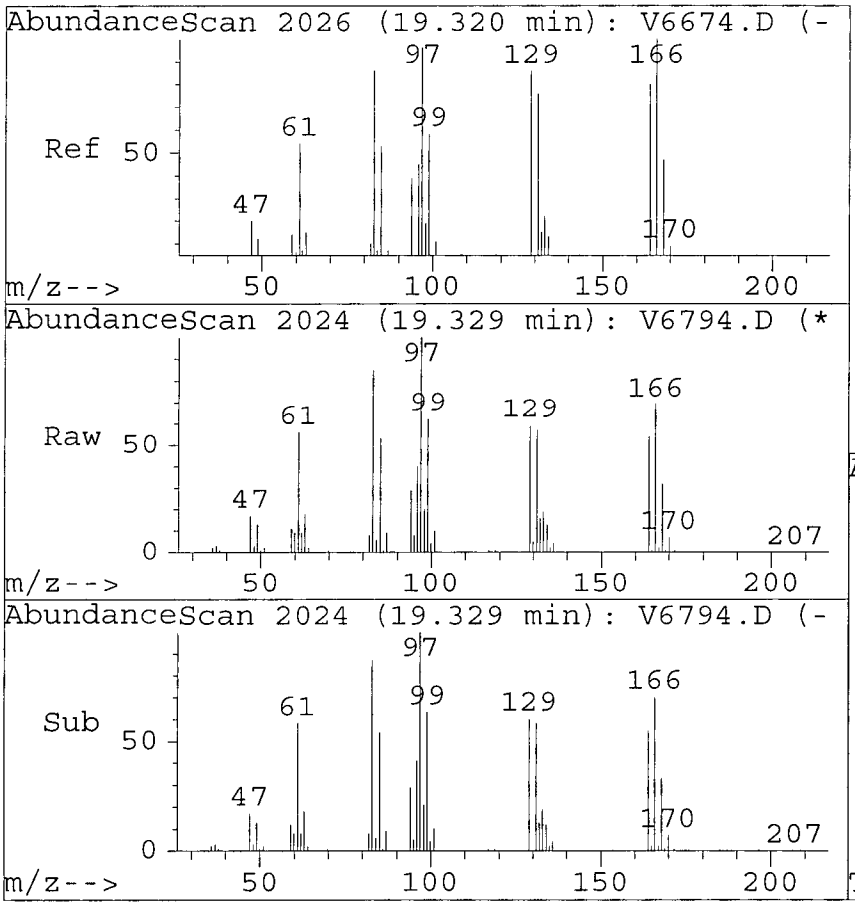


#38
toluene
Concen: 146.23 ug/L
RT: 18.01 min Scan# 1880
Delta R.T. 0.09 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:91 Resp: 5664392

Ion	Ratio	Lower	Upper
91	100		
92	59.9	42.1	78.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

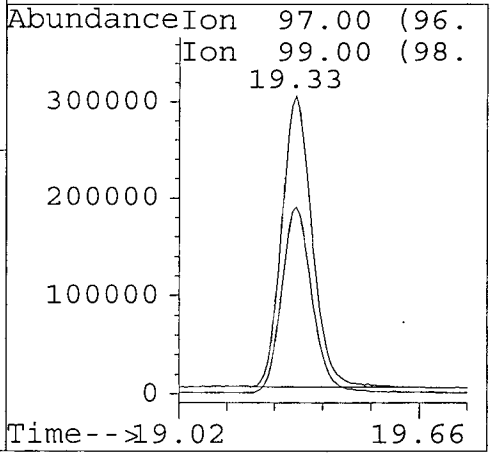




#40
1,1,2-trichloroethane
Concen: 160.55 ug/L
RT: 19.33 min Scan# 2024
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:97 Resp: 1671613

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



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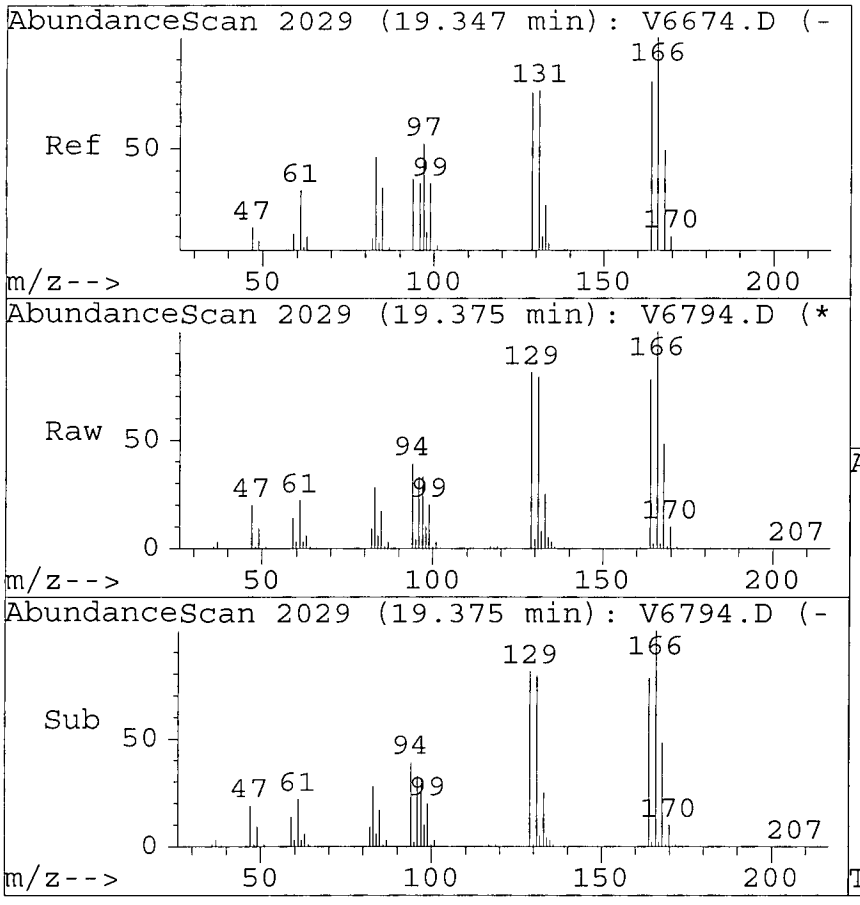
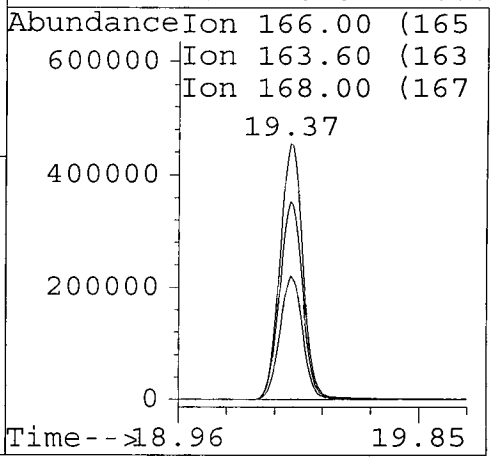
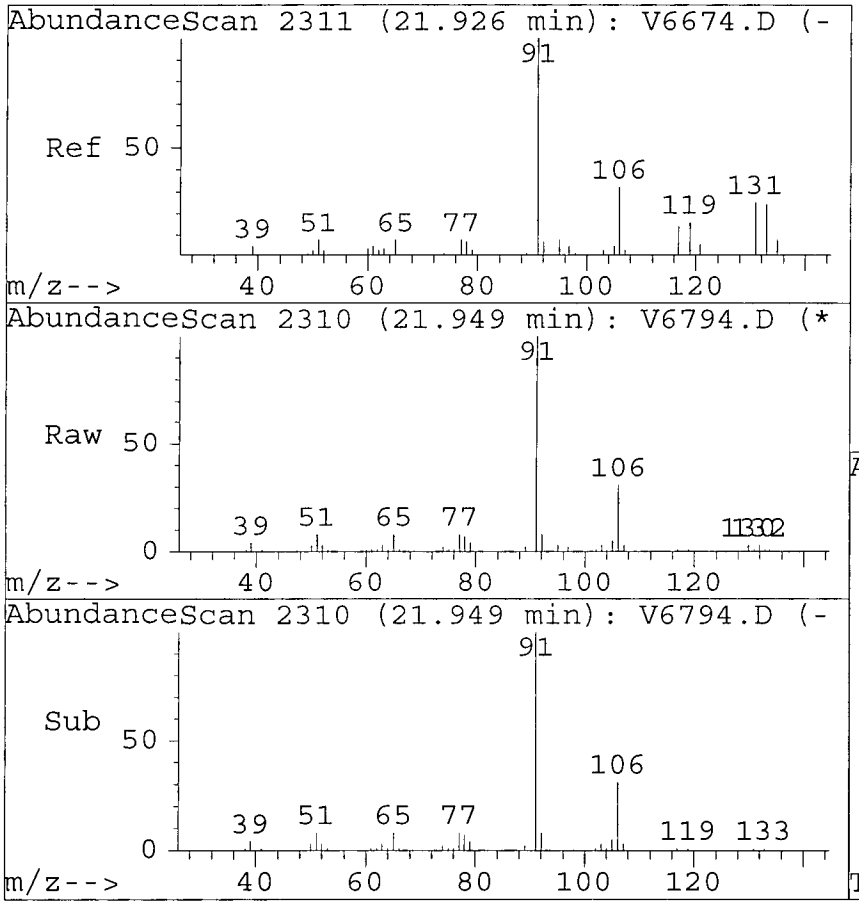


#44
tetrachloroethene
Concen: 219.78 ug/L
RT: 19.37 min Scan# 2029
Delta R.T. 0.08 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:166 Resp: 2686261

Ion	Ratio	Lower	Upper
166	100		
164	77.5	54.1	100.5
168	48.4	34.3	63.7
0	0.0	0.0	0.0

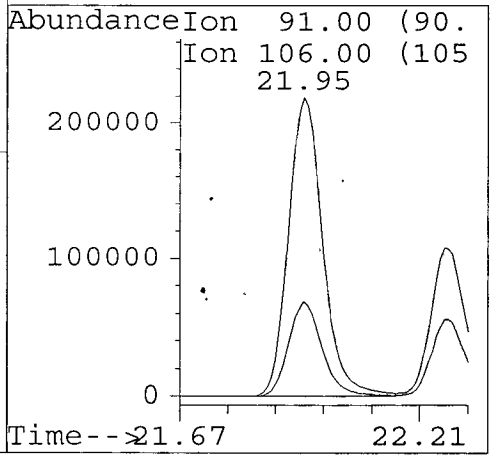




#51
ethylbenzene
Concen: 26.81 ug/L
RT: 21.95 min Scan# 2310
Delta R.T. 0.07 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:91 Resp: 1183762

Ion	Ratio	Lower	Upper
91	100		
106	31.3	21.4	39.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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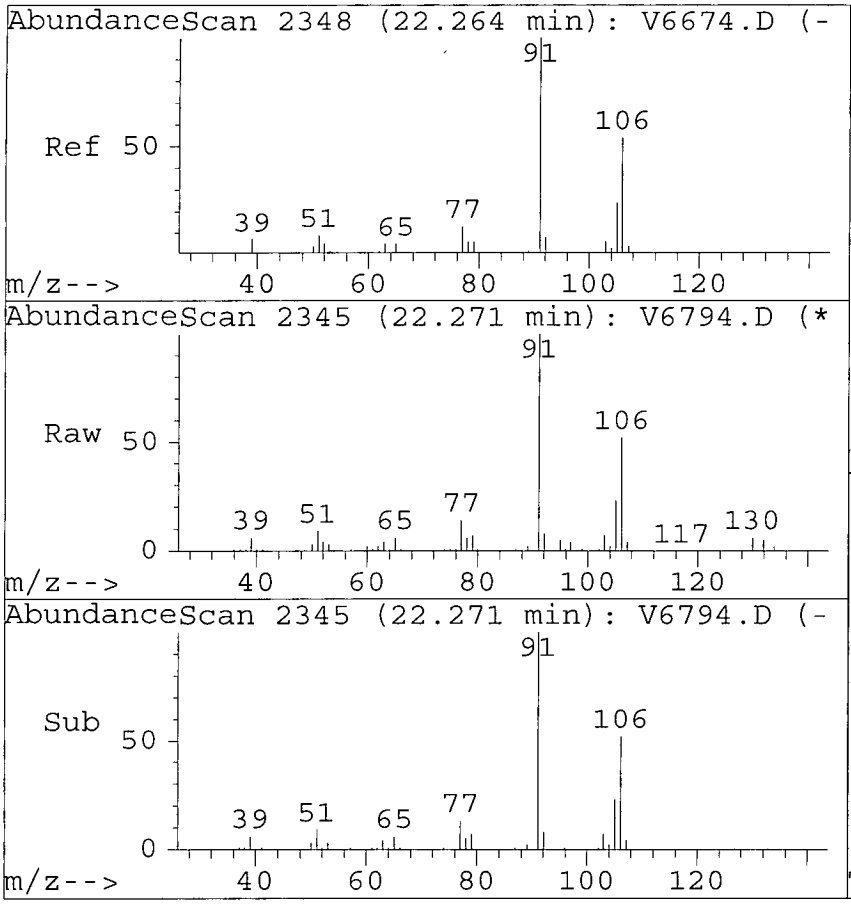
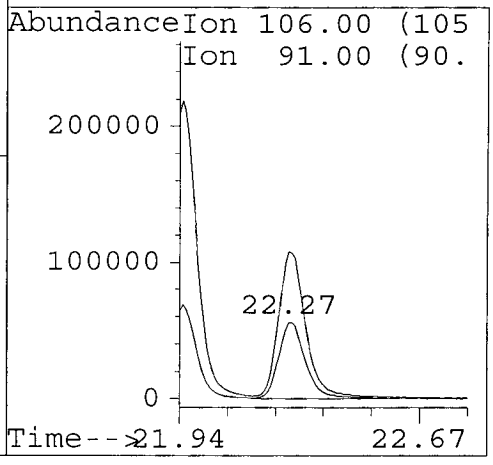
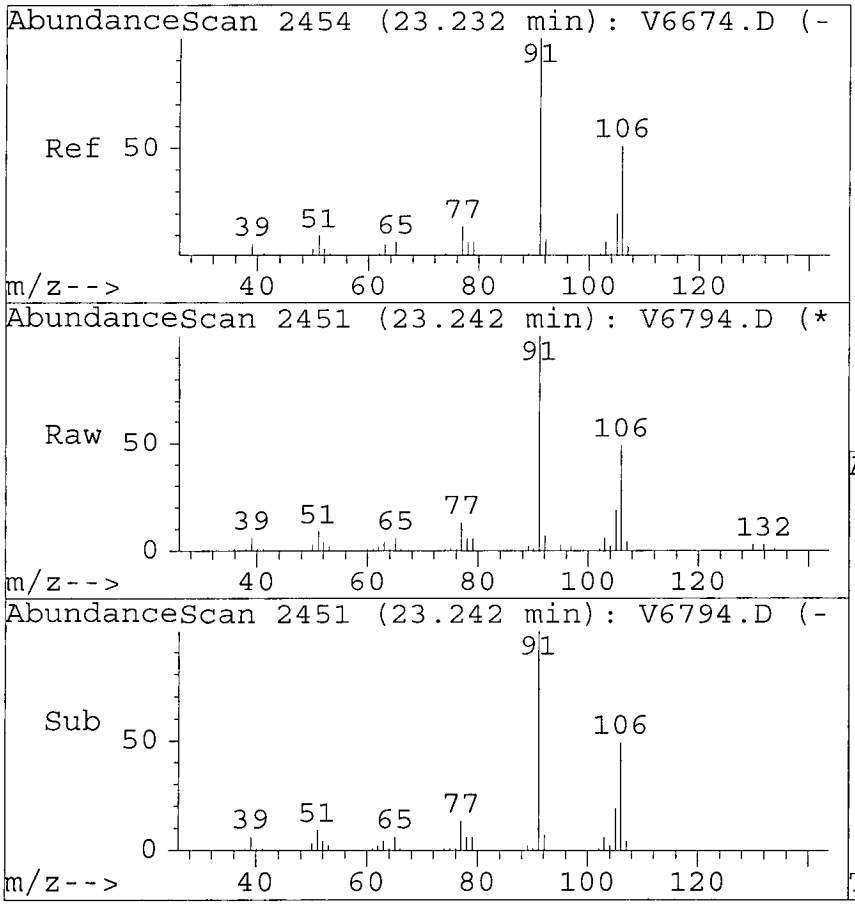


#52
m&p-xylenes
Concen: 19.20 ug/L
RT: 22.27 min Scan# 2345
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:106 Resp: 319411

Ion	Ratio	Lower	Upper
106	100		
91	193.3	137.4	255.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

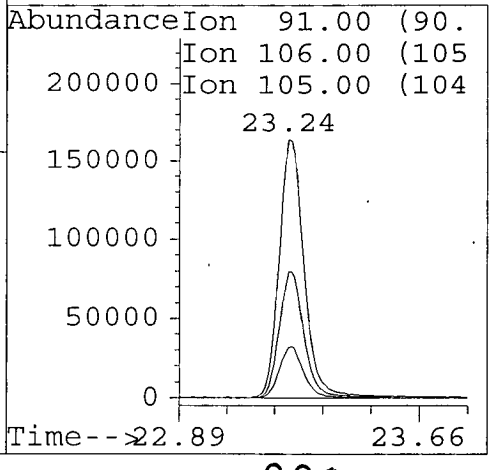




#53
o-xylene
Concen: 26.18 ug/L
RT: 23.24 min Scan# 2451
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:91 Resp: 900263

Ion	Ratio	Lower	Upper
91	100		
106	48.6	34.4	64.0
105	19.4	13.5	25.1
0	0.0	0.0	0.0



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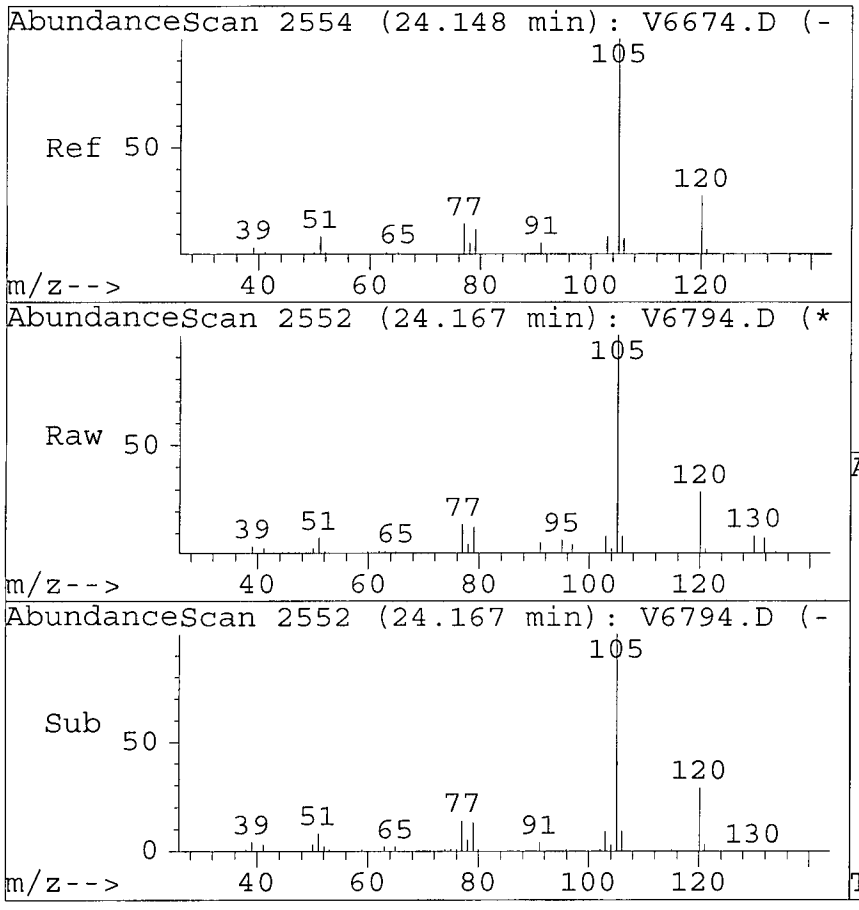
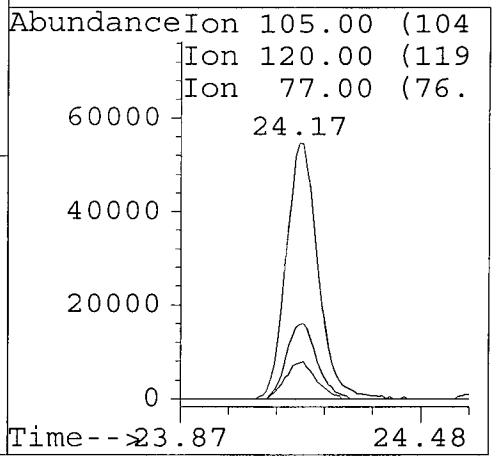
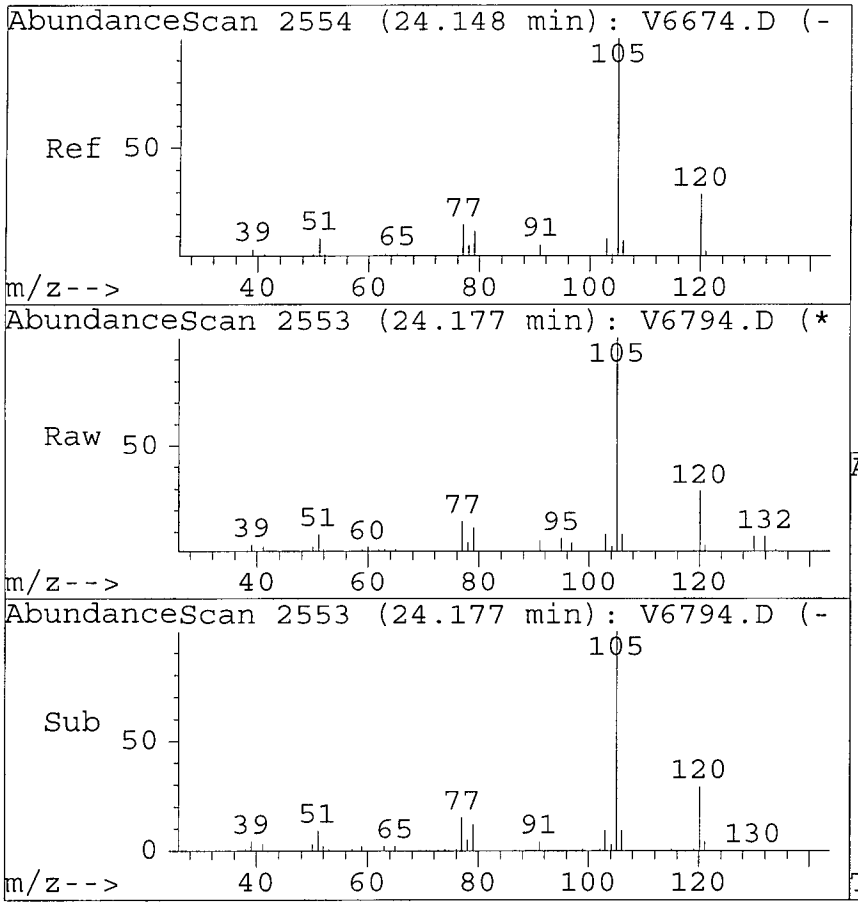


#57
isopropylbenzene
Concen: 6.11 ug/L
RT: 24.17 min Scan# 2552
Delta R.T. 0.06 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:105 Resp: 307536

Ion	Ratio	Lower	Upper
105	100		
120	29.0	20.1	37.3
77	14.1	10.1	18.7
0	0.0	0.0	0.0

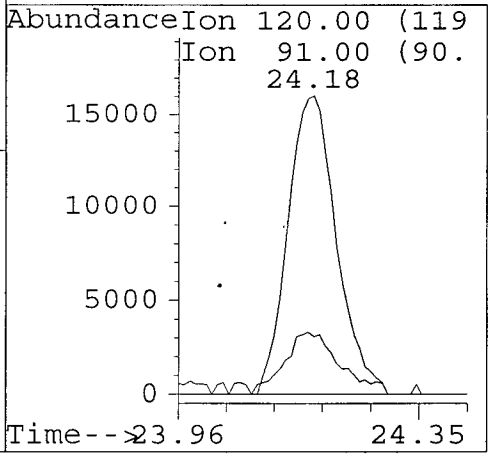




#61
n-propylbenzene
Concen: 6.04 ug/L
RT: 24.18 min Scan# 2553
Delta R.T. 0.07 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:120 Resp: 86815

Ion	Ratio	Lower	Upper
120	100		
91	19.1	12.9	24.0
0	0.0	0.0	0.0
0	0.0	0.0	0.0



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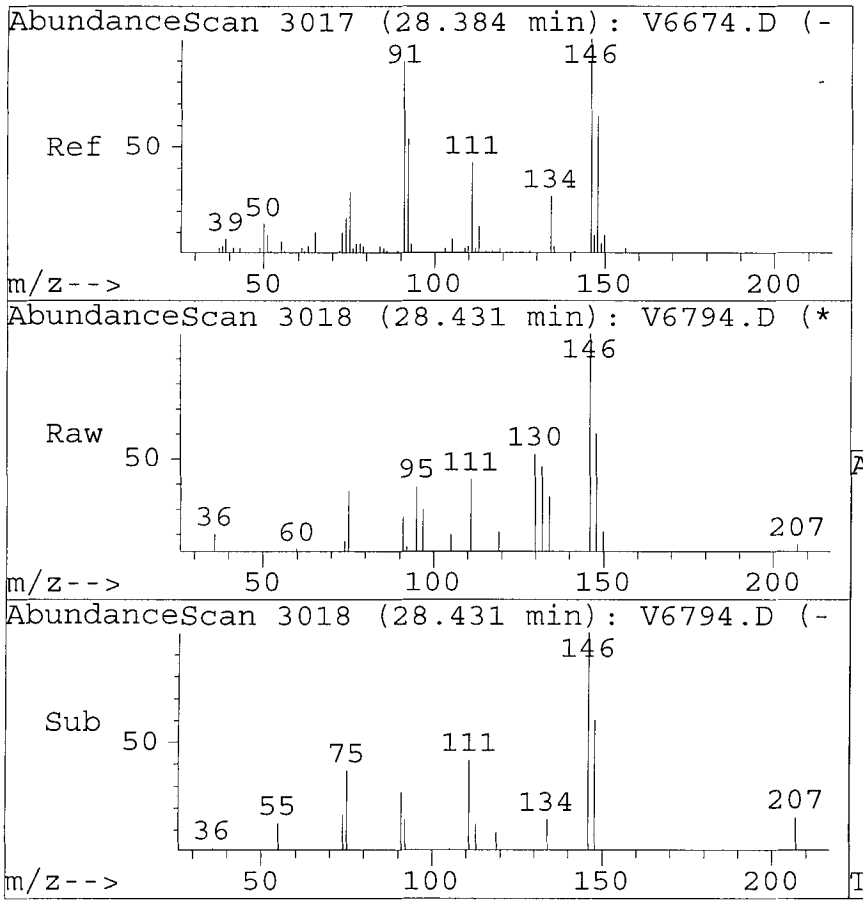
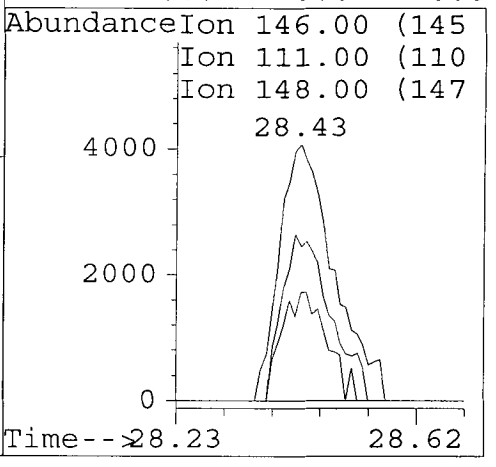


#71
1,2-dichlorobenzene
Concen: 1.04 ug/L
RT: 28.43 min Scan# 3018
Delta R.T. 0.09 min
Lab File: V6794.D
Acq: 8 Jun 99 7:16 pm

Tgt Ion:146 Resp: 24881

Ion	Ratio	Lower	Upper
146	100		
111	42.4	29.1	54.1
148	60.3	44.9	83.3
0	0.0	0.0	0.0



000171

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6803.D
Acq Time : 9 Jun 99 1:12 pm
Sample : 12019NJ-74683 1000 X DIL
Misc : 5ML
Quant Time: Jun 9 14:12 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	13.23	96	1710027	50.00 ug/L	0.08
42) Chlorobenzene-d5	21.62	117	1668790	50.00 ug/L	0.07
56) 1,4-dichlorobenzene-d4	27.46	152	835808	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.07	113	737274	51.16 ug/L	102.32%
29) 1,2-Dichlorethane-d4	12.24	65	426666	55.22 ug/L	110.44%
37) Toluene-d8	17.81	98	1910166	50.22 ug/L	100.43%
41) 4-Bromofluorobenzene	24.62	95	1151652	46.63 ug/L	93.25%
Target Compounds					Qvalue
26) carbon tetrachloride	11.30	117	26660	2.28 ug/L	97
31) trichloroethene	14.36	130	1440695	111.73 ug/L	98

000172

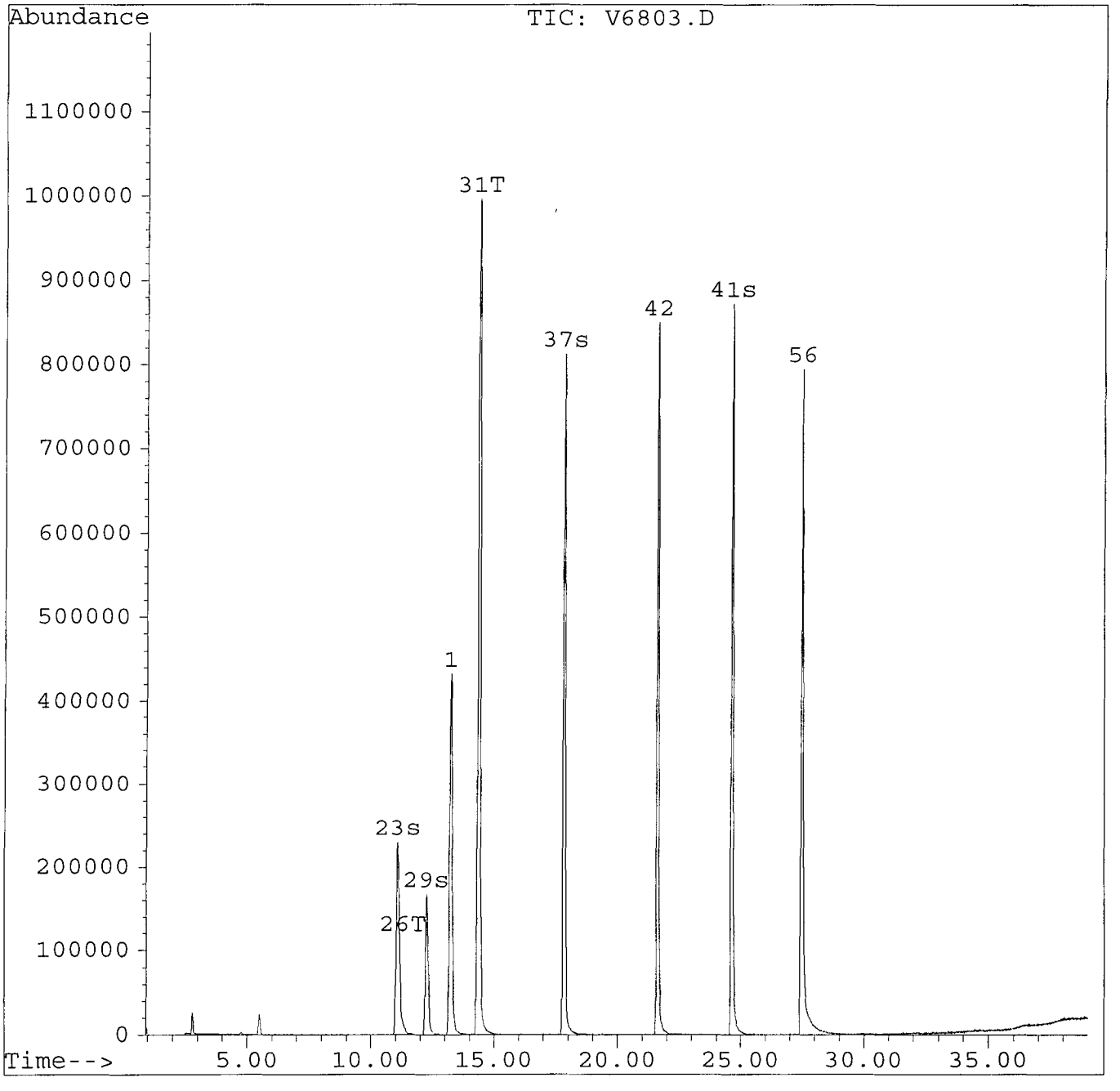
(#) = qualifier out of range (m) = manual integration

Quantitation Report

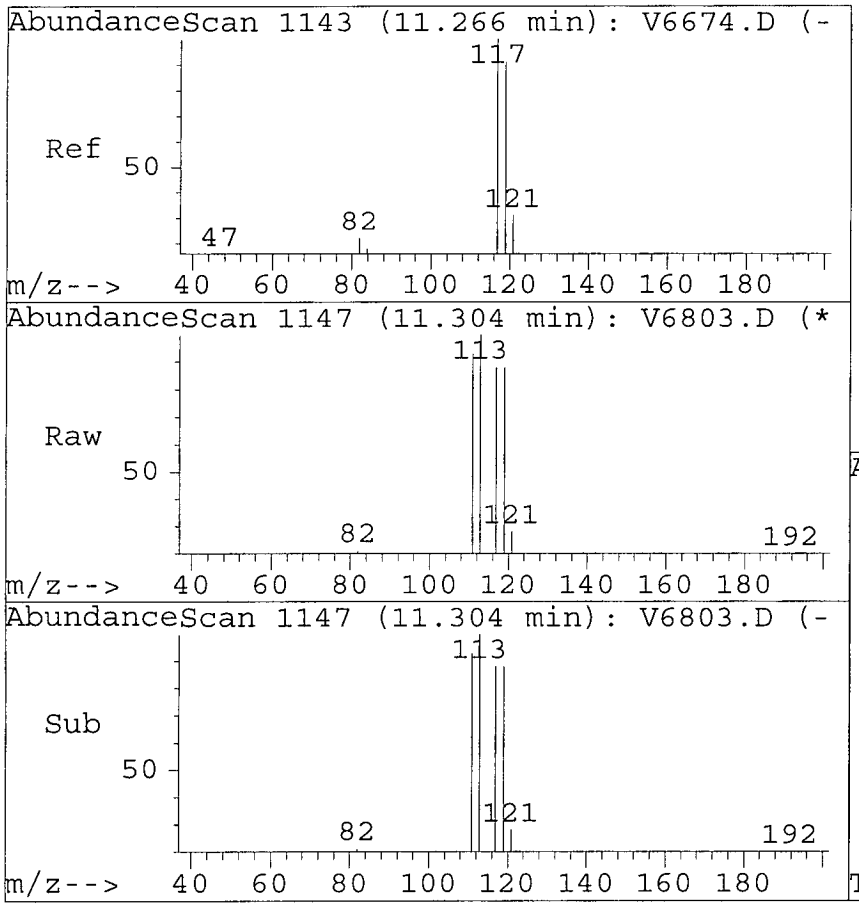
Data File : D:\HPCHEM\1\DATA\V1060999\V6803.D
Acq Time : 9 Jun 99 1:12 pm
Sample : 12019NJ-74683 1000 X DIL
Misc : 5ML
Quant Time: Jun 9 14:12 1999

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



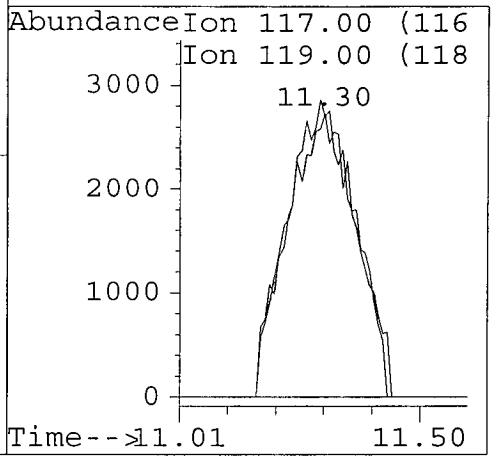
000173

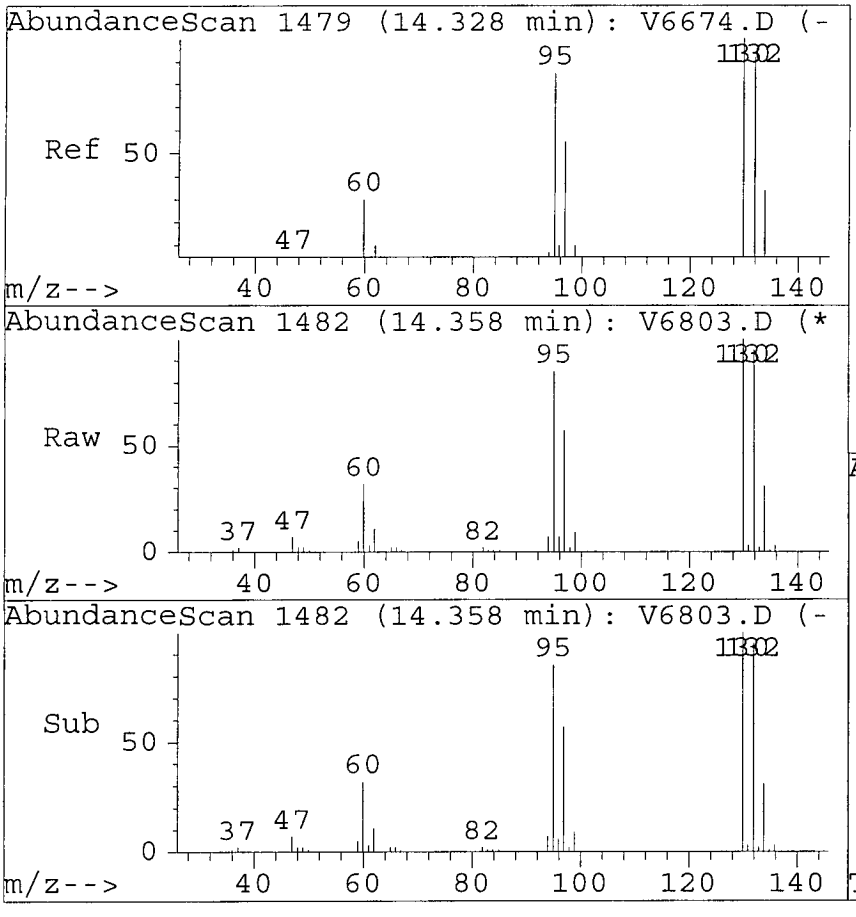


#26
carbon tetrachloride
Concen: 2.28 ug/L
RT: 11.30 min Scan# 1147
Delta R.T. 0.13 min
Lab File: V6803.D
Acq: 9 Jun 99 1:12 pm

Tgt Ion:117 Resp: 26660

Ion	Ratio	Lower	Upper
117	100		
119	99.2	67.4	125.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

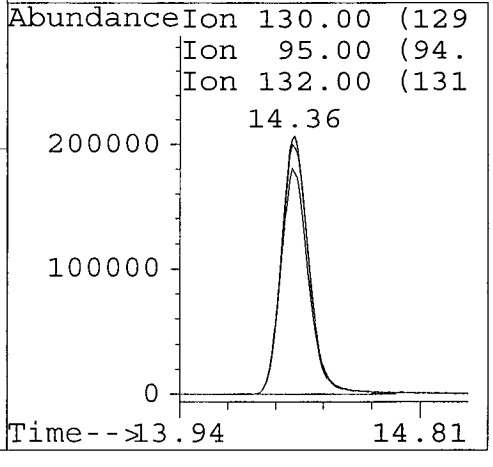




#31
trichloroethene
Concen: 111.73 ug/L
RT: 14.36 min Scan# 1482
Delta R.T. 0.07 min
Lab File: V6803.D
Acq: 9 Jun 99 1:12 pm

Tgt Ion:130 Resp: 1440695

Ion	Ratio	Lower	Upper
130	100		
95	85.5	60.1	111.7
132	95.5	68.5	127.3
0	0.0	0.0	0.0



000174

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6800.D
Acq Time : 9 Jun 99 10:43 am
Sample : 12019NJ-74684
Misc : 5ML
Quant Time: Jun 9 14:11 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	1760051	50.00 ug/L	0.07
42) Chlorobenzene-d5	21.61	117	1714414	50.00 ug/L	0.06
56) 1,4-dichlorobenzene-d4	27.46	152	844081	50.00 ug/L	0.07
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.05	113	779132	52.53 ug/L	105.05%
29) 1,2-Dichlorethane-d4	12.25	65	450760	56.68 ug/L	113.36%
37) Toluene-d8	17.81	98	2007656	51.28 ug/L	102.56%
41) 4-Bromofluorobenzene	24.62	95	1210536	47.62 ug/L	95.24%

Target Compounds Qvalue

000175

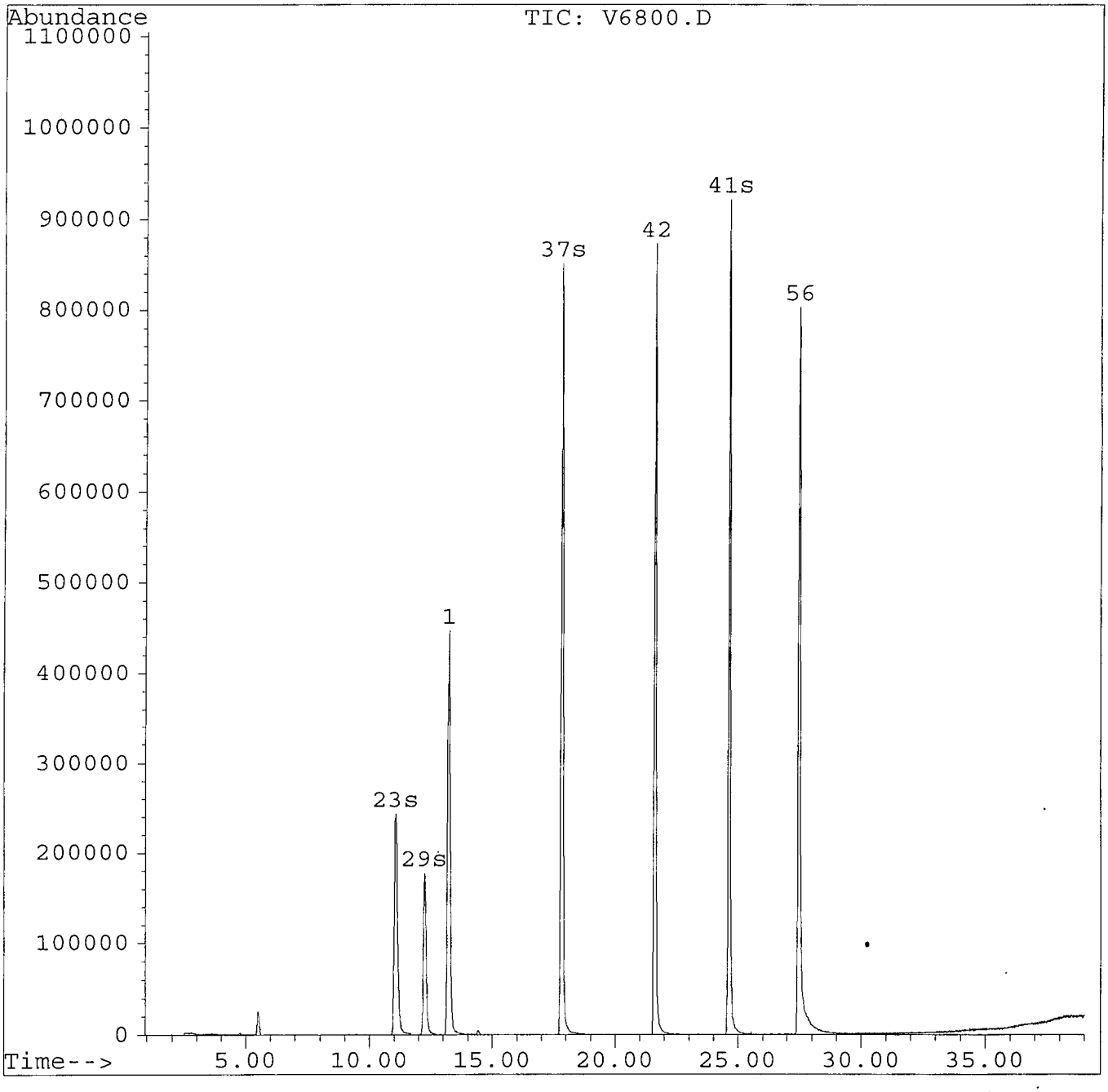
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6800.D
Acq Time : 9 Jun 99 10:43 am
Sample : 12019NJ-74684
Misc : 5ML
Quant Time: Jun 9 14:11 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



000176

Quantitation Report

JJ 6-8-99

Data File : D:\HPCHEM\1\DATA\V1060899\V6784.D
Acq Time : 8 Jun 99 11:04 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Jun 8 12:52 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	2042301	50.00 ug/L	0.04
42) Chlorobenzene-d5	21.59	117	2044240	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.45	152	1051504	50.00 ug/L	0.05
System Monitoring Compounds					%Recovery
23) Dibromofluoromethane	11.06	113	849647	49.36 ug/L	98.73%
29) 1,2-Dichlorethane-d4	12.23	65	483041	52.35 ug/L	104.69%
37) Toluene-d8	17.80	98	2305076	50.74 ug/L	101.48%
41) 4-Bromofluorobenzene	24.61	95	1386213	46.99 ug/L	93.98%

Target Compounds Qvalue

000177

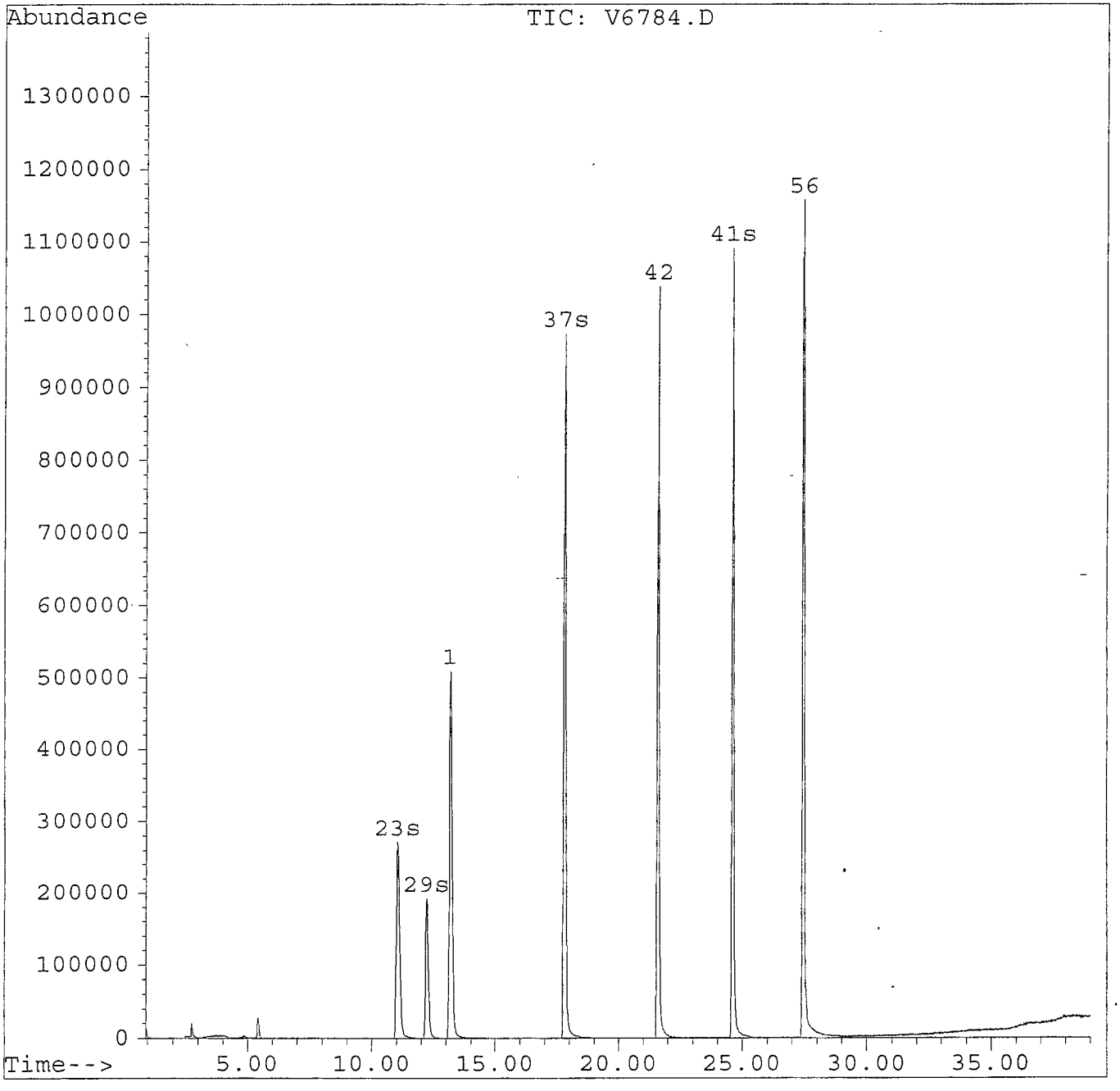
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060899\V6784.D
Acq Time : 8 Jun 99 11:04 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Jun 8 12:52 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



000178

Quantitation Report

JJ 6-9-99

Data File : D:\HPCHEM\1\DATA\V1060999\V6798.D
Acq Time : 9 Jun 99 9:03 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Jun 9 9:43 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	1791503	50.00 ug/L	0.05
42) Chlorobenzene-d5	21.59	117	1780827	50.00 ug/L	0.05
56) 1,4-dichlorobenzene-d4	27.43	152	880644	50.00 ug/L	0.04
System Monitoring Compounds					**%Recovery**
23) Dibromofluoromethane	11.04	113	777609	51.50 ug/L	103.01%
29) 1,2-Dichlorethane-d4	12.23	65	447818	55.32 ug/L	110.65%
37) Toluene-d8	17.80	98	2045905	51.34 ug/L	102.68%
41) 4-Bromofluorobenzene	24.60	95	1224055	47.30 ug/L	94.61%

Target Compounds Qvalue

000179

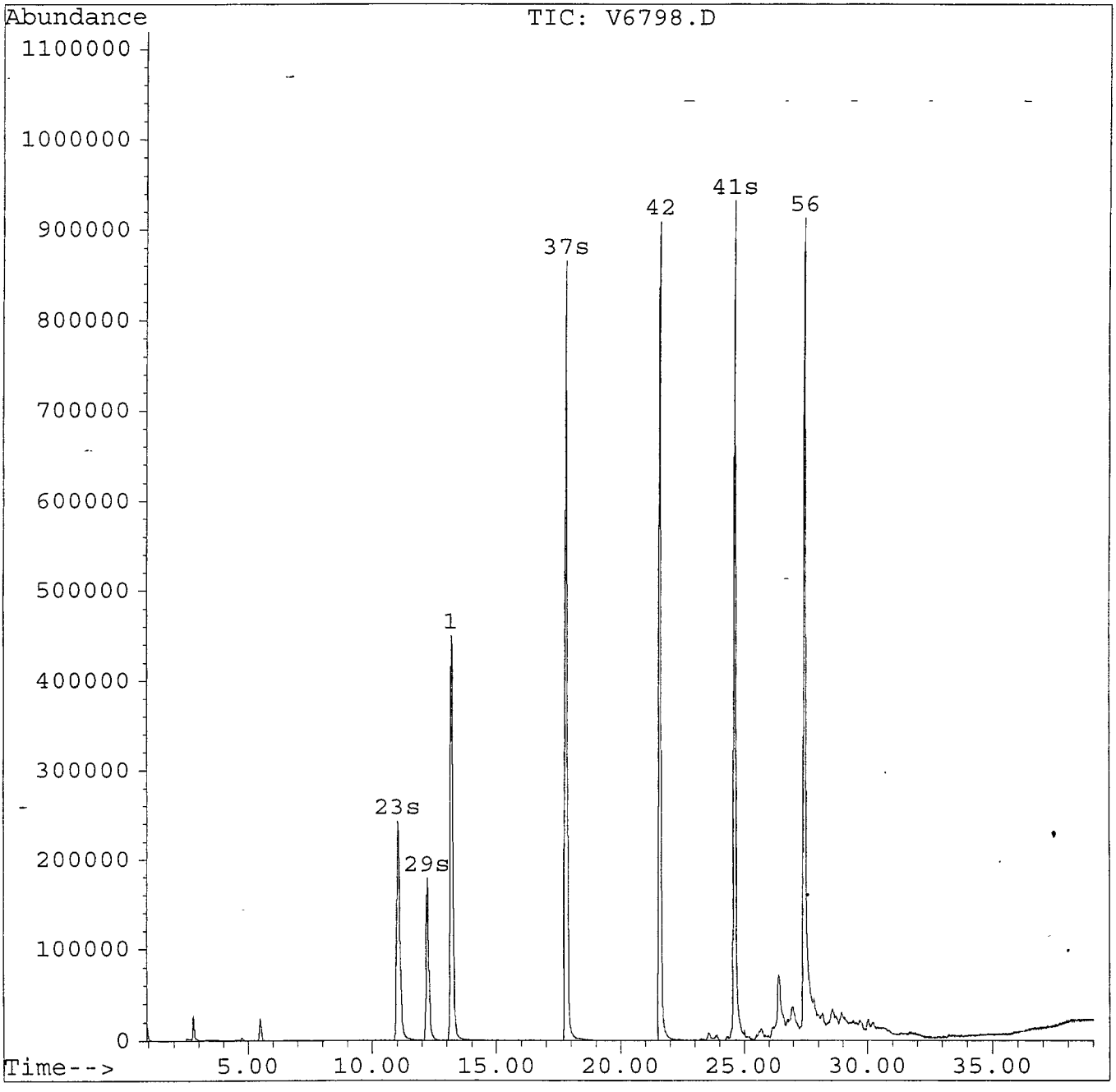
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V1060999\V6798.D
Acq Time : 9 Jun 99 9:03 am
Sample : PRO BLK
Misc : 5ML
Quant Time: Jun 9 9:43 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



000180

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74677S

Level (low/med): LOW Date Received: 06/07/99

% 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	25.9	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	18.5	B		P
7439-89-6	Iron	112			P
7439-92-1	Lead	2.4	B		P
7439-96-5	Manganese	21.1			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	61.5			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-0018-06-004

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74679S

Level (low/med): LOW Date Received: 06/07/99

% 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	39.8	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	157			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	12.4	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	50.7			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

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74682S

Level (low/med): LOW Date Received: 06/07/99

% 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	36.6	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	20.9	B		P
7439-89-6	Iron	80.6	B		P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	1.7	B		P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	28.1			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-0018-06-008

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74683S

Level (low/med): LOW Date Received: 06/07/99

% 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	147	B		P
7440-38-2	Arsenic	6.0	U		P
7440-43-9	Cadmium	1.0	U		P
7440-50-8	Copper	21.4	B		P
7439-89-6	Iron	307			P
7439-92-1	Lead	2.0	U		P
7439-96-5	Manganese	127			P
7439-97-6	Mercury	0.20	U		CV
7440-66-6	Zinc	29.5			P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000186

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74684S

Level (low/med): LOW Date Received: 06/07/99

% 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	43.2	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	7.6	B		P
	Cyanide	4.0	U		CA

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000187

ANALYSIS REPORT
1

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74685S

Level (low/med): LOW Date Received: 06/07/99

% 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	56.2	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000188

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74686S

Level (low/med): LOW Date Received: 06/07/99

% 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	68.7	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000189

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74687S

Level (low/med): LOW Date Received: 06/07/99

% 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	33.3	B		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

DISSOLVED METALS

000190

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.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74688S

Level (low/med): LOW Date Received: 06/07/99

% 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-FIELD BLANK-F

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

Matrix (soil/water): WATER Lab Sample ID: 74689S

Level (low/med): LOW Date Received: 06/07/99

% 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:

DISSLOVED METALS

B.

BLANK RESULTS SUMMARY

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

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	7.0	U	11.5	B	7.0	U	7.0	U	7.000	U	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	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	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	3.5	B	1.5	B	1.0	U	1.4	B	1.400	B	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.: 12019

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			18.7	B	7.0	U	7.2	B			P
Arsenic			6.0	U	6.0	U	6.0	U			P
Cadmium			1.0	U	1.0	U	1.0	U			P
Copper			1.0	U	1.0	U	1.0	U			P
Iron			20.0	U	20.0	U	20.0	U			P
Lead			2.0	U	2.0	U	2.0	U			P
Manganese			1.0	U	1.0	U	1.0	U			P
Mercury			0.2	U	0.2	U	0.2	U			CV
Zinc			2.4	B	1.5	B	1.9	B			P
Cyanide											NR

ANALYSIS REPORT

3

BLANKS

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

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			11.1	B	7.0	U					P
Arsenic			6.0	U	6.0	U					P
Cadmium			1.0	U	1.0	U					P
Copper			1.0	U	1.0	U					P
Iron			20.0	U	20.0	U					P
Lead			2.8	B	2.0	U					P
Manganese			1.0	U	1.0	U					P
Mercury			0.2	U							CV
Zinc			1.0	U	1.0	U					P
Cyanide											NR

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.: 12019

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	2029.86	103.8	25000.0	23546.96	94.2	23511.36	94.0	P
Arsenic	50.9	50.81	99.8	2500.0	2511.40	100.5	2516.98	100.7	P
Cadmium	510.0	504.01	98.8	2500.0	2436.43	97.5	2443.96	97.8	P
Copper	497.0	513.54	103.3	2500.0	2479.54	99.2	2475.76	99.0	P
Iron	1985.0	2005.68	101.0	10000.0	10090.40	100.9	10104.72	101.0	P
Lead	4938.0	5292.88	107.2	2500.0	2536.68	101.5	2543.01	101.7	P
Manganese	491.0	505.36	102.9	2500.0	2471.93	98.9	2482.83	99.3	P
Mercury	4.1	4.24	103.4	5.0	5.31	106.2	4.99	99.8	CV
Zinc	3012.0	3156.49	104.8	2500.0	2537.47	101.5	2550.96	102.0	P
Cyanide	90.0	96.20	106.9	500.0	508.90	101.8	511.00	102.2	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.: 12019

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	23540.16	94.2	22590.70	90.4	P
Arsenic				2500.0	2568.80	102.8	2459.80	98.4	P
Cadmium				2500.0	2482.38	99.3	2373.48	94.9	P
Copper				2500.0	2494.05	99.8	2428.82	97.2	P
Iron				10000.0	10215.02	102.2	9684.60	96.8	P
Lead				2500.0	2577.80	103.1	2470.68	98.8	P
Manganese				2500.0	2467.30	98.7	2339.74	93.6	P
Mercury				5.0	4.78	95.6	4.88	97.6	CV
Zinc				2500.0	2538.68	101.5	2364.95	94.6	P
Cyanide				500.0	512.50	102.5			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.: 12019

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	25338.32	101.4	25275.74	101.1	P
Arsenic				2500.0	2633.60	105.3	2661.76	106.5	P
Cadmium				2500.0	2555.54	102.2	2590.60	103.6	P
Copper				2500.0	2490.38	99.6	2487.90	99.5	P
Iron				10000.0	10771.56	107.7	10873.58	108.7	P
Lead				2500.0	2651.80	106.1	2670.44	106.8	P
Manganese				2500.0	2554.66	102.2	2564.40	102.6	P
Mercury				5.0	5.31	106.2	4.78	95.6	CV
Zinc				2500.0	2704.66	108.2	2535.24	101.4	P
Cyanide									NR

(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.: 12019

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	25313.22	101.3	24551.09	98.2	P
Arsenic				2500.0	2686.22	107.4	2597.78	103.9	P
Cadmium				2500.0	2625.12	105.0	2508.49	100.3	P
Copper				2500.0	2494.40	99.8	2440.02	97.6	P
Iron				10000.0	10932.59	109.3	10441.76	104.4	P
Lead				2500.0	2701.78	108.1	2591.82	103.7	P
Manganese				2500.0	2580.16	103.2	2462.92	98.5	P
Mercury				5.0	4.99	99.8			CV
Zinc				2500.0	2568.06	102.7	2401.62	96.1	P
Cyanide									NR

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.: 12019

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	21.84	109.2	18.88	94.4
Cadmium				10.0	10.92	109.2	10.40	104.0
Copper				50.0	58.67	117.3	55.76	111.5
Iron								
Lead				6.0	6.94	115.7	4.84	80.7
Manganese				30.0	34.20	114.0	31.72	105.7
Mercury	0.2	0.26	130.0					
Zinc				40.0	46.70	116.8	41.85	104.6

ANALYSIS REPORT

2B
CRDL STANDARD FOR AA AND ICP

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

AA CRDL Standard Source:

ICP CRDL Standard Source: INOR-VEN

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	True	Initial Found	%R	Final Found	%R
Aluminum								
Arsenic				20.0			19.90	99.5
Cadmium				10.0			10.97	109.7
Copper				50.0			54.62	109.2
Iron								
Lead				6.0			7.10	118.3
Manganese				30.0			32.18	107.3
Mercury								
Zinc				40.0			39.34	98.4

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.: 12019

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	467684	464639.0	91.9	440184	437859.9	86.6
Arsenic	0	97	2	95.1	98.0	3	90.3	93.1
Cadmium	0	871	-1	855.6	98.2	0	818.6	94.0
Copper	28	507	28	538.1	106.1	27	514.4	101.5
Iron	186000	177250	178348	177142.6	99.9	169537	168540.3	95.1
Lead	0	47	0	46.0	97.9	-2	41.0	87.2
Manganese	45	484	49	489.7	101.2	46	454.0	93.8
Mercury								
Zinc	33	1008	34	936.0	92.9	28	850.2	84.3

ANALYSIS REPORT

4
ICP INTERFERENCE CHECK SAMPLE

Lab Name: CHEMTECH CONSULTING GROUP Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 12019

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				474486	471349.9	93.2
Arsenic	0	97				4	95.5	98.5
Cadmium	0	871				2	877.0	100.7
Copper	28	507				27	519.7	102.5
Iron	186000	177250				181070	180343.9	101.7
Lead	0	47				1	48.4	103.0
Manganese	45	484				48	481.2	99.4
Mercury								
Zinc	33	1008				28	871.1	86.4

E.

SPIKED SAMPLE RESULTS SUMMARY

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-2MS

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11913

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	2005.1200		21.8500	B	2000.00	99.2		P
Arsenic	75-125	1988.7000		8.5400	B	2000.00	99.0		P
Cadmium	75-125	43.2000		1.0000	U	50.00	86.4		P
Copper	75-125	246.2000		5.1200	B	250.00	96.4		P
Iron	75-125	2060.9200		1120.0800		1000.00	94.1		P
Lead	75-125	480.5600		2.0000	U	500.00	96.1		P
Manganese		10329.9800		10052.3000		500.00	55.5		P
Mercury	75-125	0.9490		0.2000	U	1.00	94.9		CV
Zinc	75-125	457.6200		13.2000	B	500.00	88.9		P
Cyanide	75-125	100.7000		4.0000	U	100.00	100.7		CA

Comments:

ANALYSIS REPORT

5A

SPIKE SAMPLE RECOVERY

CLIENT SAMPLE #

MW-2MSD

Lab Name: CHEMTECH CONSULTING GROUP

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11913

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	2004.9000		21.8500	B	2000.00	99.2		P
Arsenic	75-125	1995.8900		8.5400	B	2000.00	99.4		P
Cadmium	75-125	43.6400		1.0000	U	50.00	87.3		P
Copper	75-125	246.6600		5.1200	B	250.00	96.6		P
Iron	75-125	2065.4600		1120.0800		1000.00	94.5		P
Lead	75-125	480.2200		2.0000	U	500.00	96.0		P
Manganese		10333.0200		10052.3000		500.00	56.1		P
Mercury	75-125	1.0550		0.2000	U	1.00	105.5		CV
Zinc	75-125	456.3600		13.2000	B	500.00	88.6		P
Cyanide	75-125	102.9000		4.0000	U	100.00	102.9		CA

Comments:

000209

F.

DUPLICATE SAMPLE RESULTS SUMMARY

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-2D

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11913

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		21.8500	B	9.4600	B	79.1		P
Arsenic		8.5400	B	6.3700	B	29.1		P
Cadmium		1.0000	U	1.0000	U			P
Copper		5.1200	B	4.7600	B	7.3		P
Iron		1120.0800		1033.7200		8.0		P
Lead		2.0000	U	2.0000	U			P
Manganese		10052.3000		9477.4000		5.9		P
Mercury		0.2000	U	0.2000	U			CV
Zinc		13.2000	B	10.7000	B	20.9		P
Cyanide		4.0000	U	4.0000	U			CA

ANALYSIS REPORT

6

DUPLICATES

CLIENT SAMPLE #

MW-2MSD

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11913

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		2005.1200		2004.9000		0.0		P
Arsenic		1988.7000		1995.8900		0.4		P
Cadmium		43.2000		43.6400		1.0		P
Copper		246.2000		246.6600		0.2		P
Iron		2060.9200		2065.4600		0.2		P
Lead		480.5600		480.2200		0.1		P
Manganese		10329.9800		10333.0200		0.0		P
Mercury	0.2	0.9490		1.0550		10.6		CV
Zinc		457.6200		456.3600		0.3		P
Cyanide		100.7000		102.9000		2.2		CA

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.: 12019

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	1009.57	103.2						
Arsenic	50.9	46.16	90.7						
Cadmium	304.8	303.85	99.7						
Copper	248.5	253.40	102.0						
Iron	992.5	1059.00	106.7						
Lead	2518.4	2671.10	106.1						
Manganese	245.5	254.84	103.8						
Mercury									
Zinc	1506.0	1603.57	106.5						
Cyanide									

H.

SERIAL DILUTION RESULTS SUMMARY

ANALYSIS REPORT

9

ICP SERIAL DILUTIONS

CLIENT SAMPLE #

MW-2L

Lab Name: CHEMTECH CONSULTING GROUP

Contract:

Lab Code: CHEM Case No.: SAS No.: SDG No.: 11913

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Aluminum	21.85	B	52.55	B	140.5		P
Arsenic	8.54	B	30.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Copper	5.12	B	8.05	B	57.2		P
Iron	1120.08		1060.45		5.3		P
Lead	2.00	U	10.00	U			P
Manganese	10052.30		10283.80		2.3		P
Mercury							NR
Zinc	13.20	B	18.40	B	39.4		P

GENERAL CHEMISTRY DATA

000217

GENERAL CHEMISTRY

TEST RESULTS

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74676
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-001
TIME SAMPLED- 0945 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
pH	EPA 150.1	06/07/99		HSP	6.40	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	mg/L

LABORATORY DIRECTOR _____

000219

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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74677
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-002
TIME SAMPLED- 0938 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.85	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	mg/L

LABORATORY DIRECTOR _____

000220

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: CHUCK ROGERS

DATE: 06/14/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74678
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-003
TIME SAMPLED- 0934 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	mg/L

LABORATORY DIRECTOR _____

000221

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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74679
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-004
TIME SAMPLED- 0928 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	6.95	STD UNITS
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	5.00	mg/L

LABORATORY DIRECTOR _____

000222

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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74681
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-006
TIME SAMPLED- 0921 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L

LABORATORY DIRECTOR _____

000223

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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74682
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-007
TIME SAMPLED- 0912 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.20	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	7.00	mg/L

LABORATORY DIRECTOR _____

000224

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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: CHUCK ROGERS

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74683
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-008
TIME SAMPLED- 0952 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.05	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	2.00	mg/L

LABORATORY DIRECTOR _____

000225

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NJDEP Certification No. 15004

CHEMTECH

LABORATORY REPORT

REPORT OF ANALYSES

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

DATE: 06/15/99

PROJECT # 12019 NJ

SAMPLE NUMBER- 74684
DATE SAMPLED- 06/07/99
DATE RECEIVED- 06/07/99
DELIVERED BY- IMPULSE

SAMPLE ID- DO-0018-06-FIELD BLANK
TIME SAMPLED- 0905 SAMPLER- CLIENT
TIME RECEIVED- 1830
RECEIVED BY- AD SAMPLE MATRIX- WW

ANALYSIS	METHOD	ANALYSIS DATE	TIME	BY	RESULT	UNITS
Chromium, Hexavalent	7196A	06/08/99		BP	<0.0250	mg/L
pH	EPA 150.1	06/07/99		HSP	7.80	STD UNITS
TOTAL ORGANIC CARBON	EPA 415.1	06/09/99		HNP	< 10.0	mg/L
TOTAL SUSPENDED SOLIDS	EPA 160.2	06/10/99		HSP	3.00	mg/L

LABORATORY DIRECTOR _____

000226

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GENERAL CHEMISTRY

QC RESULTS

CHEMTECH

LABORATORY REPORT

QC REPORT FOR FOSTER WHEELER ENVIRO CORP 06/14/99

QA/QC for SAMPLE Nos: 74677,

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
pH	74679	6.95	7 00	0.050	0.72	------	STDPH4.00	4.00	4.00	100.00
EPA 150 1	-------	--------	--------	--------	--------	------	STDPH7.00	7.00	7.05	100.71
STD UNITS	-------	--------	--------	--------	--------	------	STDPH10.00	10.00	10.00	100.00
	-------	--------	--------	--------	--------	------	STDPH7 00	7 00	7.05	100.71
TOTAL ORGANIC CARBON	74681	<10 0	<10.0	0.0	0.00	92.14	QC	200 00	194.73	97.36
EPA 415 1	-------	--------	--------	--------	--------	------	CCV1	200	202.76	101.38
mg/L	-------	--------	--------	--------	--------	------	CCB1	<10.0	<10 0	100.00
	-------	--------	--------	--------	--------	------	M.BLANK	<10 0	<10.0	100.00
	-------	--------	--------	--------	--------	------	CCV2	200	194 73	99.88
	-------	--------	--------	--------	--------	------	CCB2	<10.0	<10 0	100.00
TOTAL SUSPENDED	74677	5.00	5.00	0 0	0.00	105 00	BLANK1	<1.0	<1.0	100.00
SOLIDS	74678	--------	--------	--------	--------	105 00	STD	125	124	99.20
EPA 160 2	74978	7 00	8 00	1 0	13.33	------	BLANK2	<1.0	<1.0	100.00
mg/L										

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CHEMTECH

LABORATORY REPORT

QC REPORT FOR FOSTER WHEELER ENVIRO CORP. 06/18/99

QA/QC for SAMPLE Nos· 74677,

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	74683	<0 0250	<0.0250	0.000	0 00	95.82	ICV	0 5000	0.4756	95.12
7196A	-------	--------	--------	--------	--------	------	ICB	<0.025	<0.025	100.00
mg/L	-------	--------	--------	--------	--------	------	CCV1	0.5000	0 4851	97.02
	-------	--------	--------	--------	--------	------	CCB1	<0.025	<0 025	100.00
	-------	--------	--------	--------	--------	------	MID STD	0.5000	0.4867	97.34
	-------	--------	--------	--------	--------	------	PBS	<1.000	<1.000	100.00
	-------	--------	--------	--------	--------	------	CCV2	0.5000	0.4864	97.28
	-------	--------	--------	--------	--------	------	CCB2	<0.025	<0.025	100.00
	-------	--------	--------	--------	--------	------	PBW	<0.025	<0.025	100 00
	-------	--------	--------	--------	--------	------	CCV3	0 5000	0.4791	95.82
	-------	--------	--------	--------	--------	------	CCB3	<0 025	<0.025	100.00

000229

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