#9

File Unifirst

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

DATE: January 5, 1988

Reed 2-1-88

SUBJECT: Unifirst Corp - Project (11/30/87) Project Results

Results from splits

Superfund Records Center
SITE: Wells G & H
BREAK: 3.2
OTHER: 549608

FROM: Edward J. Kim,
ESD - Water Section

TO: Barbara Newman,
HRS - MA Superfund

As per your request of November 9, 1987, the project was carried out November 30, 1987 and was completed the next day on December 1, 1987. As requested six ground water monitoring wells, including three multi-port sampling wells were sampled for volatile organic analysis. Summarized for your review, in this report, are the general procedures followed during the sampling investigation, any special circumstances or alternatives from the project plan, as well as the sample analytical results. Present during the investigation were representing ERT, Larry Hogan, and EPA, Diane Switzer and Edward Kim.

In general, the sampling investigation was carried out as outlined by the project plan. There were no deviation nor any circumstances that altered the investigation as set forth by the project plan.

Sample Collection:

The monitoring wells were sampled as outlined by the project plan. The wells were sampled in sequence as described by the project plan, UC4, UC6 and UC5 respectively. In the case of the multi-port wells no particular order was followed since each well contained its own sampling device. The following sampling procedures were exercised:

Well Purging: At wells UC4, UC5 and UC6, atleast three standing well volume were purged by means of telfon bailers before sampling. ERT had in place at each well a designated bailer and these bailers were used to purge the wells. At wells UC7, UC9 and UC10, multi-port wells, each port was flushed completely three times by means of its sampling device before sampling.

Sample Collection: At wells UC4, UC5 and UC6, samples were collected using EPA's telfon bailer and not with the ERT's bailers that were used to purge the wells. Only one bailer was used for all the wells, therefore, EPA decontamination protocol was followed after each well was sampled. A field equipment blank sample was collected to test the effectiveness of the cleaning procedure and that result is shown on Table I. as sample Equip. Blank (# 86856). As shown the sample produced clean result. Samples were poured directly from the bailer into 40 ml vials (3 vials for each sample) pre-spiked with 4 drops of concentrated HCL. The samples were split between EPA and ERT upon collection. ERT did not acidify their VOA samples with concentrated HCL. Once acidified the samples were cooled and stored at 4°C.

SDMS DocID 549608

Sample Analysis:

The samples were delievered to EPA NERL Chemistry Section for analysis on November 30 and December 1, 1987. The samples delievered on November 30 were analyzed that same day and the December 1 samples were analyzed December 4, 1987, well within the allowable holding time.

Analytical Procedure: 23 water samples were analyzed by EPA Method 8240 and the results are presented in Table I. Please note those volatile organic compounds not listed in the table were excluded because they were found to be below the required detection limits required by Method 8240.

Quality Control: Field trip blanks and field equipment blank were analyzed with the sample survey. The field trip and equipment blank both produced clean results.

Other Notes of Interest:

1. Duplicate samples were collected at wells UC6 and UC9B. The duplicate samples are refer to as UC6D and UC9BD respectively.

2. Field equipment blank was collected after sampling well UC6. Analysis of the sample detected no compounds.

3. Ports UC9A and UC9E were not sampled due to sampling port problems.

4. Well UC7 was sampled on Nov. 30, however, port UC7B sample was collected Dec. 1. Port UC7B was particularly slow recharging, therefore, it was decided to let the port recharge overnight and sample the next day.

5. Table I. also includes field measurements of physical parameters collected during the sample process. The parameters were monitored contineously during the purging process at each well and the values given in the table represent only the last measurement taken before sampling.

If you have any questions or require additional information, please contact me at 860-4300 ext. 376.

enclosure

Table I.
Unifirst Corp. - Volatile Organic
Results
(11/30-12/01, 1987)

	Trip Blanks #1	Trip Blanks #2	Equip. Blank	Well UC4	Well UC5	Well UC6	Well UC6D
Sample Number	86856	63288	86856	86852	86855	86853	86854
Date (yr/mm/dd)	87/11/30	87/12/01	87/11/30	87/11/30	87/11/30	87/11/30	87/11/30
Time	6:30	6:30	13:15	10:45	11:05	12:55	12:55
Sample Matrix	Water	Water	Water	Water	Water	Water	Water
Field Measurements:							
Temperature (^{o}C)	-	-	-	12	13	14.5	14.5
Spec. Cond.(mmhos/cm)	-	-	-	610	575	225	225
pH	-	-	-	6.7	6.5	10.6	10.6
Vol. Org. Compounds: (ppb)							
Tetrachloroethylene	-	-	-	24	15,000	60	18
Trichloroethylene	-	-	-	-	-	-	-
Acetone	-	-	-	-	-	<430	-

Table I. (Cont.)
Unifirst Corp. - Volatile Organic
Results
(11/30-12/01, 1987)

	Well UC7A	Well UC7B	Well UC7C	Well UC7D	Well UC7E	Well UC9B	Well UC9BD	Well UC9C	Well UC9D
Sample Number	63272	63273	63274	63275	63276	63277	63281	63278	63279
Date (yr/mm/dd)	87/11/30	87/12/01	87/11/30	87/11/30	87/11/30	87/12/01	87/12/01	87/12/01	87/12/01
Time	15:20	07:55	15:30	15:40	15:50	10:56	10:56	10:57	10:58
Sample Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water
Port Depth (ft)*	138	104	76	41	15	181	181	149	112
Field Measurements:									
Temperature (°C)	13.8	14.1	14.1	14.7	14.7	11.1	11.1	11.1	11.1
Spec. Cond. (mmhos/cm)	1578	900	950	800	350	670	670	929	1006
pH	6.8	7.6	7.5	7.6	7.6	7.6	7.6	7.5	7.5
Vol. Org. Compounds: (ppb)									
Tetrachloroethylene	13,000	14,000	20,000	18,000	150	380	430	930	700
Trichloroethylene	-	-	-	-	-	-	<50	-	-
Toluene	-	-	-	-	380	<100	84	-	-

*Note: Information obtained from Larry Hogan, ERT.
Two ports not included in the above table
because they were not sampled, UC9A depth 238 ft.
and UC9E depth 60 ft.

Table I. (Cont.)
Unifirst Corp. - Volatile Organic
Results
(11/30-12/01, 1987)

	Well UC9F	Well UC10A	Well UC10B	Well UC10C	Well UC10D	Well UC10E	Well UC10F
Sample Number	63280	63287	63282	63283	63284	63285	63286
Date (yr/mm/dd)	87/12/01	87/12/01	87/12/01	87/12/01	87/12/01	87/12/01	87/12/01
Time	10:59	15:45	15:22	15:25	15:30	15:35	15:40
Sample Matrix	Water	Water	Water	Water	Water	Water	Water
Port Depth (ft)	37	243	227	181	158	129	93
Field Measurements:							
Temperature (^{o}C)	11.1	11.5	12.1	12.1	12.1	12.1	12.3
Spec. Cond. (mmhos/cm)	2070	945	1084	521	690	2800	1020
pH	7.3	7.5	7.5	7.9	7.7	7.2	7.7
Vol. Org. Compounds: (ppb)							
Tetrachloroethylene	2	120	620	950	5100	80	50
Trichloroethylene	<1	-	-	100	-	-	-
Toluene	18	-	-	<100	-	-	-
Trichlorofluoromethane	2	-	-	-	-	-	-

EPA approved method validated

US ENVIRONMENTAL PROTECTION AGENCY
60 Westview Street
Lexington, MA. 02173

DATE: December 28, 1987

SUBJECT: Interface, Auburn, MA - Purgeable Organic Analysis
Samples Received: 86851-86856, 63272-63288
Samples Analyzed by GC/MS: Same

FROM: Robert Clifford, Chemist

TO: William Walsh, Chief, Water Section

THRU: Dr. William Andrade
Chief, Chemistry Section

PROJECT NUMBER: 880042, 880044

DATE(S) SAMPLES RECEIVED BY THE LABORATORY: 11-30-87, 12-2-87

ANALYTICAL PROCEDURE:

Federal Register, Volume 49, #209, Oct. 26, 1984, Method 624.

QUALITY CONTROL:

1. A laboratory blank was analyzed prior to sample analysis.

2. Each sample was spiked with several surrogate compounds at approximately 30 ppb concentration. The results for the surrogate recoveries are reported for each sample.

3. Samples 86855 and 63280 were analyzed in duplicate to determine analytical precision and average concentrations were reported.

cc: Ed Kim
Moira Lataille

4A. A Supelco QC check sample was also spiked into sample 63275 to determine analytical accuracy. The following results were obtained:

Compound	% Recovery	Acceptable Range*
Methylene Chloride	108	D-221
1,1-Dichloroethane	106	59-155
Carbon Tetrachloride	119	70-140
Trichloroethylene	116	71-157
Dibromochloromethane	102	53-149
Chlorobenzene	100	37-160
1,2-Dichloropropane	109	D-210
Chloroform	112	51-138
1,1,2 Trichloroethane	115	52-150
Tetrachloroethylene	108	64-148
Trichlorofluoromethane	100	17-181
1,1 Dichloroethylene	112	D-234

*Table 4.-Calibration and QC Acceptance Criteria-Method 624

Unifirst, Woburn,MA

4B. A Supelco QC check sample was also spiked into sample 63282 to determine analytical accuracy. The following results were obtained:

Compound	% Recovery	Acceptable Range*
Methylene Chloride	86	D-221
1,1-Dichloroethane	131	59-155
Carbon Tetrachloride	139	70-140
Trichloroethylene	104	71-157
Dibromochloromethane	110	53-149
Chlorobenzene	107	37-160
1,2-Dichloropropane	115	D-210
Chloroform	114	51-138
1,1,2 Trichloroethane	102	52-150
Tetrachloroethylene	111	64-148
Trichlorofluoromethane	100	17-181
1,1 Dichloroethylene	121	D-234

*Table 4.-Calibration and QC Acceptance Criteria-Method 624

ANALYTICAL PARAMETERS
PURGEABLE ORGANIC ANALYSIS

INSTRUMENTS: Tekmar ALS
Tekmar LSC-2
Finnigan OWA 30B

PURGE CONDITIONS:

Gas:	Helium
Purge Time and Flow:	11 min., 40 ml/min
Trap:	25 cm stainles steel (1/8 in. OD) packed with 15 cm 60/80 mesh Tenax-GC plus 8 cm 30/80 mesh Davison type 15 Silica Gel
Desorption Time, Flow, Temperature:	4 min, 20ml/min., 180C
Bake out cycle:	7 min.

CHROMATOGRAPHIC CONDITIONS:

Column:	2 meter by 2 mm ID glass column packed with 1% SP-1000 on 60/80 mesh Carbopack B.
Program:	Isothermal at 45 C for 3 min the programmed at 8 C/min to 220 C and held for the total time of 38.5 min.
Injector, Separator, and Transfer Temperatures:	220 C, 250 C, 250 C
Carrier Gas and Flow:	Helium, 30 ml/min

MASS SPECTROMETER CONDITIONS:

Electron Energy:	70 V
Mass Range:	35, 260
Scan Rate:	3 seconds

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86851
SAMPLE LOCATION: Trip Blank
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
'4-87-3	34418	Chloromethane	ND	13	
'4-83-5	34413	Bromomethane	ND	3	
'5-01-4	39175	Vinyl Chloride	ND	4	
'5-00-3	34311	Chloroethane	ND	2	
'5-09-2	34423	Methylene Chloride	ND	1	
'5-69-4	34488	Trichlorofluoromethane	ND	2	
'5-35-4	34501	1,1-Dichloroethylene	ND	2	
'5-34-3	34496	1,1-Dichloroethane	ND	1	
56-60-5	34546	1,2-Dichloroethylene isomers	ND	2	
,7-66-3	32106	Chloroform	ND	1	
.07-06-2	34531	1,2-Dichloroethane	ND	1	
'1-55-6	34506	1,1,1-Trichloroethane	ND	1	
6-23-5	32102	Carbon Tetrachloride	ND	1	
'5-27-4	32101	Bromodichloromethane	ND	2	
'8-87-5	34541	1,2-Dichloropropane	ND	1	
.0061-02-6	34699	t-1,3-Dichloropropene	ND	1	
'9-01-6	39180	Trichloroethylene	ND	1	
.24-48-1	32105	Dibromochloromethane	ND	2	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	1	
'9-00-5	34511	1,1,2-Trichloroethane	ND	1	
'1-43-2	34030	Benzene	ND	1	
10-75-8	34576	2-Chloroethylvinyl ether	ND	15	
'5-25-2	32104	Bromoform	ND	1	
27-18-4	34475	Tetrachloroethylene	ND	1	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	1	
08-88-3	34010	Toluene	ND	1	
08-90-7	34301	Chlorobenzene	ND	1	
00-41-4	34371	Ethylbenzene	ND	1	
07-02-8	34210	Acrolein	ND	50	
07-13-1	34215	Acrylonitrile	ND	20	
		Dichlorobenzene isomers	ND	2	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5	
,7-64-1	81552	Acetone	ND	43	
'5-15-0	77041	Carbon Disulfide	ND	4	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86851
Sample Results Continued:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	24	
108-05-4	77057	Vinyl Acetate	ND	9	
591-10-6	77103	2-Hexanone	ND	5	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	3	
100-42-5	81705	Styrene	ND	1	
1330-02-7	81551	Xylenes (total)	ND	2	
		1,2-Dibromoethane	ND	1	
		Tetrahydrofuran	ND	14	
		Ethyl ether	ND	8	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	96	77-117
Benzene,d6	106	93-123
Toluene,d8	97	89-109
1,4-Bromofluorobenzene	95	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63288
SAMPLE LOCATION: Trip Blank 2
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-4-87
REFERENCE BOOK: 95

SAMPLE Results:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34416	Chloromethane	ND	13	
74-83-9	[illegible]	Bromomethane	ND	3	
75-01-4	34[illegible]	Vinyl Chloride	ND	4	
75-00-3	34[illegible]	Chloroethane	ND	2	
75-09-2	34423	Methylene Chloride	ND	1	
75-69-4	34488	Trichlorofluoromethane	ND	2	
75-35-4	[illegible]	1,1-Dichloroethylene	ND	2	
75-34-3	34496	1,1-Dichloroethane	ND	1	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	2	
67-66-3	[illegible]	Chloroform	ND	1	
107-06-2	34[illegible]	1,2-Dichloroethane	ND	1	
71-55-6	34506	1,1,1-Trichloroethane	ND	1	
56-23-5	[illegible]	Carbon Tetrachloride	ND	1	
75-27-4	[illegible]	Bromodichloromethane	ND	2	
78-87-5	34541	1,2-Dichloropropane	ND	1	
10061-02-6	34699	t-1,3-Dichloropropene	ND	1	
79-01-6	39180	Trichloroethylene	ND	1	
124-48-1	34[illegible]	Dibromochloromethane	ND	1	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	1	
79-00-5	34511	1,1,2-Trichloroethane	ND	1	
71-43-2	34030	Benzene	ND	1	
110-75-8	34576	2-Chloroethylvinyl ether	ND	15	
75-25-2	[illegible]	Bromoform	ND	1	
127-18-4	34475	Tetrachloroethylene	ND	1	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	1	
108-88-3	34010	Toluene	ND	1	
108-90-7	34301	Chlorobenzene	ND	1	
100-41-4	34371	Ethylbenzene	ND	1	
107-02-8	34210	Acrolein	ND	50	
107-13-1	34215	Acrylonitrile	ND	20	
		Dichlorobenzene isomers	ND	2	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	5	
67-64-1	81552	Acetone	ND	43	
75-15-0	77041	Carbon Disulfide	ND	4	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 62268
Sample Results Continued: Trip Blank 2

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	24	
108-05-4	77057	Vinyl Acetate	ND	9	
591-10-6	77103	2-Hexanone	ND	5	
108-10-1	81595	4-Methyl-2-Pentanone (MIBK)	ND	3	
100-42-5	81703	Styrene	ND	1	
133-02-7	81551	Xylenes (total)	ND	2	
		1,2-Dibromoethane (EDB)	ND	1	
		Tetrahydrofuran	ND	14	
		Ethyl ether	ND	8	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	97	77-117
Benzene,d6	95	93-123
Toluene,d8	101	89-109
1,4-Bromofluorobenzene	101	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86856
SAMPLE LOCATION: EQUIPMENT BLANK
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
'4-87-3	34418	Chloromethane	ND	13	
'4-83-9	34413	Bromomethane	ND	3	
'5-01-4	39175	Vinyl Chloride	ND	4	
'5-00-3	34311	Chloroethane	ND	2	
'5-09-2	34423	Methylene Chloride	ND	1	
'5-69-4	34488	Trichlorofluoromethane	ND	2	
'5-35-4	34501	1,1-Dichloroethylene	ND	2	
'5-34-3	34496	1,1-Dichloroethane	ND	1	
.56-60-5	34546	1,2-Dichloroethylene isomers	ND	2	
.7-66-3	32106	Chloroform	ND	1	
07-06-2	34531	1,2-Dichloroethane	ND	1	
'1-55-6	34506	1,1,1-Trichloroethane	ND	1	
6-23-5	32102	Carbon Tetrachloride	ND	1	
'5-27-4	32101	Bromodichloromethane	ND	2	
'8-87-5	34541	1,2-Dichloropropane	ND	1	
0061-02-6	34655	t-1,3-Dichloropropene	ND	1	
'9-01-6	39180	Trichloroethylene	ND	1	
24-48-1	32105	Dibromochloromethane	ND	1	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	1	
'9-00-5	34511	1,1,2-Trichloroethane	ND	1	
'1-43-2	34030	Benzene	ND	1	
.10-75-8	34576	2-Chloroethylvinyl ether	ND	15	
'5-25-2	32104	Bromoform	ND	1	
27-18-4	34475	Tetrachloroethylene	ND	1	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	1	
08-88-3	34010	Toluene	ND	1	
08-90-7	34301	Chlorobenzene	ND	1	
00-41-4	34371	Ethylbenzene	ND	1	
07-02-8	34210	Acrolein	ND	50	
07-13-1	34215	Acrylonitrile	ND	20	
		Dichlorobenzene isomers	ND	2	
		1,2,2-Trichloro-1,2,2 trifluoroethane	ND	5	
.7-64-1	81552	Acetone	ND	43	
'5-15-0	77041	Carbon Disulfide	ND	4	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86656
Sample Results Continued:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	24	
108-05-4	77057	Vinyl Acetate	ND	9	
591-10-5	77103	2-Hexanone	ND	5	
108-10-1	81595	4-Methyl-2-Pentanone(MIBK)	ND	3	
100-42-5	81708	Styrene	ND	1	
1330-02-7	81551	Xylenes (total)	ND	2	
		1,2-Dibromoethane (EDB)	ND	1	
		Tetrahydrofuran	ND	14	
-		Ethyl ether	ND	8	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	103	77-117
Benzene,d6	110	93-123
Toluene,d8	97	89-113
1,4-Bromofluorobenzene	93	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

AMPLE NO.: 86852
AMPLE LOCATION: UC4
ATE OF COLLECTION:
IME OF COLLECTION:

DATE OF ANALYSIS: 12-3-87
REFERENCE BOOK: 95

AMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
'4-87-3	34418	Chloromethane	ND	130	
'4-83-9	34413	Bromomethane	ND	30	
'5-01-4	39175	Vinyl Chloride	ND	40	
'5-00-3	34311	Chloroethane	ND	20	
'5-09-2	34422	Methylene Chloride	ND	10	
'5-69-4	34488	Trichlorofluoromethane	ND	20	
'5-35-4	34501	1,1-Dichloroethylene	ND	20	
'5-34-3	34496	1,1-Dichloroethane	ND	10	
56-60-5	34541	1,2-Dichloroethylene isomers	ND	20	
,7-66-3	32106	Chloroform	ND	10	
.07-06-2	34531	1,2-Dichloroethane	ND	10	
'1-55-6	34506	1,1,1-Trichloroethane	ND	10	
6-23-5	32102	Carbon Tetrachloride	ND	10	
'5-27-4	32101	Bromodichloromethane	ND	20	
'8-87-5	34541	1,2-Dichloropropane	ND	10	
.0061-02-6	34699	t-1,3-Dichloropropene	ND	10	
'9-01-6	39180	Trichloroethylene	ND	10	
.24-48-1	32105	Dibromochloromethane	ND	10	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	10	
'9-00-5	34511	1,1,2-Trichloroethane	ND	10	
'1-43-2	34030	Benzene	ND	10	
10-75-8	34578	2-Chloroethylvinyl ether	ND	150	
'5-25-2	32104	Bromoform	ND	10	
.27-18-4	34475	Tetrachloroethylene	24	10	
'5-34-5	34516	1,1,2,2-Tetrachloroethane	ND	10	
.08-88-3	34010	Toluene	ND	10	
08-90-7	34301	Chlorobenzene	ND	10	
.00-41-4	34371	Ethylbenzene	ND	10	
07-02-8	34210	Acrolein	ND	500	
07-13-1	34215	Acrylonitrile	ND	200	
		Dichlorobenzene isomers	ND	20	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50	
67-64-1	81552	Acetone	ND	430	
'5-15-0	77041	Carbon Disulfide	ND	40	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86652
Sample Results Continued: UC4

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	240	
108-05-4	77027	Vinyl Acetate	ND	90	
591-10-6	77103	2-Hexanone	ND	50	
108-10-1	81552	4-Methyl-2-Pentanone(MIBK)	ND	30	
100-42-5	81706	Styrene	ND	10	
1330-02-7	81551	Xylenes (total)	ND	20	
		1,2-Dibromoethane (EDB)	ND	10	
		Tetrahydrofuran	ND	140	
		Ethyl ether	ND	80	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	97	77-117
Benzene,d6	89	93-123
Toluene,d8	97	89-109
1,4-Bromofluorobenzene	105	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86855
SAMPLE LOCATION: UC5
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
'4-87-3	34418	Chloromethane	ND	16250	
'4-83-9	34413	Bromomethane	ND	3750	
'5-01-4	39175	Vinyl Chloride	ND	5000	
'5-00-3	34311	Chloroethane	ND	2500	
'5-09-2	34423	Methylene Chloride	ND	1250	
'5-69-4	34488	Trichlorofluoromethane	ND	2500	
'5-35-4	34501	1,1-Dichloroethylene	ND	2500	
'5-34-3	34496	1,1-Dichloroethane	ND	1250	
.56-60-5	34546	1,2-Dichloroethylene isomers	ND	2500	
67-66-3	32106	Chloroform	ND	1250	
.07-06-2	34531	1,2-Dichloroethane	ND	1250	
'1-55-6	34506	1,1,1-Trichloroethane	ND	1250	
56-23-5	32102	Carbon Tetrachloride	ND	1250	
'5-27-4	32101	Bromodichloromethane	ND	2500	
'8-87-5	34541	1,2-Dichloropropane	ND	1250	
.0061-02-6	34699	t-1,3-Dichloropropene	ND	1250	
'9-01-6	39180	Trichloroethylene	ND	1250	
.24-48-1	32105	Dibromochloromethane	ND	1250	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	1250	
'9-00-5	34511	1,1,2-Trichloroethane	ND	1250	
'1-43-2	34030	Benzene	ND	1250	
.10-75-8	34576	2-Chloroethylvinyl ether	ND	18750	
'5-25-2	32104	Bromoform	ND	1250	
.27-18-4	34475	Tetrachloroethylene	1500	1250	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	1250	
.08-88-3	34010	Toluene	ND	1250	
.08-90-7	34301	Chlorobenzene	ND	1250	
.00-41-4	34371	Ethylbenzene	ND	1250	
.07-02-8	34210	Acrolein	ND	62500	
.07-13-1	34215	Acrylonitrile	ND	25000	
		Dichlorobenzene isomers	ND	2500	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	6250	
67-64-1	81552	Acetone	ND	53750	
'5-15-0	77041	Carbon Disulfide	ND	5000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 66855
Sample Results Continued: VC5 cont

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	[illegible]	2-Butanone(MEK)	ND	30000	
108-05-4	[illegible]	Vinyl Acetate	ND	11250	
591-10-6	[illegible]	2-Hexanone	ND	6250	
108-10-1	[illegible]	4-Methyl-2-Pentanone	ND	3750	
100-42-5	[illegible]	Styrene	ND	1250	
133-02-7	[illegible]	Xylenes (total)	ND	2500	
		1,2-Dibromoethane (EDB)	ND	1250	
		Tetrahydrofuran	ND	17500	
		Ethyl ether	ND	10000	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	98	77-117
Benzene,d6	108	93-123
Toluene,d8	99	89-109
1,4-Bromofluorobenzene	94	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86853
SAMPLE LOCATION: UC 6 (Dup)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-3-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	EPA NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
74-87-3	34418	Chloromethane	ND	130	
74-83-9	34413	Bromomethane	ND	30	
75-01-4	39175	Vinyl Chloride	ND	40	
75-00-3	34311	Chloroethane	ND	20	
75-09-2	34423	Methylene Chloride	ND	10	
75-69-4	34488	Trichlorofluoromethane	ND	20	
75-35-4	34501	1,1-Dichloroethylene	ND	20	
75-34-3	34496	1,1-Dichloroethane	ND	10	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	20	
67-66-3	32102	Chloroform	ND	10	
107-06-2	34231	1,2-Dichloroethane	ND	10	
71-55-6	34506	1,1,1-Trichloroethane	ND	10	
56-23-5	32102	Carbon Tetrachloride	ND	10	
75-27-4	32101	Bromodichloromethane	ND	20	
78-87-5	34541	1,2-Dichloropropane	ND	10	
10061-02-6	34699	t-1,3-Dichloropropene	ND	10	
79-01-6	39180	Trichloroethylene	ND	10	
124-48-1	32105	Dibromochloromethane	ND	10	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	10	
79-00-5	34511	1,1,2-Trichloroethane	ND	10	
71-43-2	34030	Benzene	ND	10	
110-75-8	34578	2-Chloroethylvinyl ether	ND	150	
75-25-2	32104	Bromoform	ND	10	
127-18-4	34475	Tetrachloroethylene	18	10	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	10	
108-88-3	34010	Toluene	ND	10	
108-90-7	34301	Chlorobenzene	ND	10	
100-41-4	34371	Ethylbenzene	ND	10	
107-02-8	34210	Acrolein	ND	500	
107-13-1	34215	Acrylonitrile	ND	200	
		Dichlorobenzene isomers	ND	20	
		1,2,2-Trichloro-1,2,2 trifluoroethane	ND	50	
67-64-1	81552	Acetone	ND	430	
75-15-0	77041	Carbon Disulfide	ND	40	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

AMPLE NO. 66853
Sample Results Continued: UL6 (Dup)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
8-93-3	81133	2-Butanone (MEK)	ND	240	
08-05-4	77057	Vinyl Acetate	ND	90	
91-10-6	77103	2-Hexanone	ND	50	
06-10-1	81552	4-Methyl-2-Pentanone (MIBK)	ND	30	
00-42-5	81706	Styrene	ND	10	
33-02-7	81551	Xylenes (total)	ND	20	
		1,2-Dibromoethane (EDB)	ND	10	
		Tetrahydrofuran	ND	140	
		Ethyl ether	ND	80	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane, d4	93	77-117
Benzene, d6	104	93-123
Toluene, d8	97	89-113
1,4-Bromofluorobenzene	100	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 86854
SAMPLE LOCATION: UC6 (Dup)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-3-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34418	Chloromethane	ND	130	
74-83-9	34413	Bromomethane	ND	30	
75-01-4	39175	Vinyl Chloride	ND	40	
75-00-3	34311	Chloroethane	ND	20	
75-09-2	34423	Methylene Chloride	ND	10	
75-69-4	34488	Trichlorofluoromethane	ND	20	
75-35-4	34501	1,1-Dichloroethylene	ND	20	
75-34-3	34496	1,1-Dichloroethane	ND	10	
56-60-5	34546	1,2-Dichloroethylene isomers	ND	20	
67-66-3	32106	Chloroform	ND	10	
07-06-2	34531	1,2-Dichloroethane	ND	10	
71-55-6	34506	1,1,1-Trichloroethane	ND	10	
56-23-5	32102	Carbon Tetrachloride	ND	10	
75-27-4	32101	Bromodichloromethane	ND	20	
78-87-5	34541	1,2-Dichloropropane	ND	10	
0061-02-6	34699	t-1,3-Dichloropropene	ND	10	
79-01-6	39180	Trichloroethylene	ND	10	
24-48-1	32105	Dibromochloromethane	ND	10	
0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	10	
79-00-5	34511	1,1,2-Trichloroethane	ND	10	
71-43-2	34030	Benzene	ND	10	
10-75-8	34576	2-Chloroethylvinyl ether	ND	150	
75-25-2	32104	Bromoform	ND	10	
27-18-4	34475	Tetrachloroethylene	60	10	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	10	
08-88-3	34010	Toluene	ND	10	
08-90-7	34301	Chlorobenzene	ND	10	
00-41-4	34371	Ethylbenzene	ND	10	
07-02-8	34210	Acrolein	ND	500	
07-13-1	34215	Acrylonitrile	ND	200	
		Dichlorobenzene isomers	ND	20	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	50	
67-64-1	81552	Acetone	(430	430	
75-15-0	77041	Carbon Disulfide	ND	40	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

AMPLE NO.: 86854
ample Results Continued: UC 6 (Dup)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
8-93-3	81595	2-Butanone(MEK)	ND	240	
08-05-4	77057	Vinyl Acetate	ND	90	
91-10-6	77103	2-Hexanone	ND	50	
08-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	30	
00-42-5	81708	Styrene	ND	10	
33-02-7	81551	Xylenes (total)	ND	20	
		1,2-Dibromoethane (EDB)	ND	10	
		Tetrahydrofuran	ND	140	
		Ethyl ether	ND	80	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	96	77-117
Benzene,d6	86	93-123
Toluene,d8	94	89-109
1,4-Bromofluorobenzene	97	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE # : 63672
SAMPLE LOCATION:
DATE OF COLLECTION: VC 7-1 (a)
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
'4-87-3	34412	Chloromethane	ND	32500	
'4-83-9	34413	Bromomethane	ND	7500	
'5-01-4	39175	Vinyl Chloride	ND	10000	
'5-00-3	34311	Chloroethane	ND	5000	
'5-09-2	34423	Methylene Chloride	ND	2500	
'5-69-4	34418	Trichlorofluoromethane	ND	5000	
'5-35-4	34501	1,1-Dichloroethylene	ND	5000	
'5-34-3	34496	1,1-Dichloroethane	ND	2500	
.56-60-5	34546	1,2-Dichloroethylene isomers	ND	5000	
57-66-3	32106	Chloroform	ND	2500	
.07-06-2	34531	1,2-Dichloroethane	ND	2500	
'1-55-6	34506	1,1,1-Trichloroethane	ND	2500	
56-23-5	32102	Carbon Tetrachloride	ND	2500	
'5-27-4	32101	Bromodichloromethane	ND	5000	
'8-87-5	34541	1,2-Dichloropropane	ND	2500	
.0061-02-6	34699	t-1,3-Dichloropropene	ND	2500	
'9-01-6	39180	Trichloroethylene	ND	2500	
.24-48-1	32105	Dibromochloromethane	ND	2500	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	2500	
'9-00-5	34511	1,1,2-Trichloroethane	ND	2500	
'1-43-2	34030	Benzene	ND	2500	
.10-75-8	34576	2-Chloroethylvinyl ether	ND	37500	
'5-25-2	32104	Bromoform	ND	2500	
.27-18-4	34475	Tetrachloroethylene	13000	2500	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	2500	
08-88-3	34010	Toluene	ND	2500	
08-90-7	34301	Chlorobenzene	ND	2500	
00-41-4	34371	Ethylbenzene	ND	2500	
07-02-8	34210	Acrolein	ND	125000	
.07-13-1	34215	Acrylonitrile	ND	50000	
		Dichlorobenzene isomers	ND	5000	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	12500	
,7-64-1	81552	Acetone	ND	107500	
'5-15-0	77041	Carbon Disulfide	ND	10000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63272
Sample Results Continued: VC 7-1 (a)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	60000	
108-05-4	77057	Vinyl Acetate	ND	22500	
591-10-6	77103	2-Hexanone	ND	12500	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	7500	
100-42-5	81708	Styrene	ND	2500	
1330-02-7	81551	Xylenes (total)	ND	5000	
		1,2-Dibromoethane (EDB)	ND	2500	
		Tetrahydrofuran	ND	35000	
		Ethyl ether	ND	20000	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	97	77-117
Benzene,d6	106	93-123
Toluene,d8	98	89-109
1,4-Bromofluorobenzene	97	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63273
SAMPLE LOCATION: UC 7-2 (B)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-3-87
REFERENCE BOOK: 95

SAMPLE REQ. NO.

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
74-87-3	34418	Chloromethane	ND	65000	
74-83-9	34413	Bromomethane	ND	15000	
75-01-4	39175	Vinyl Chloride	ND	20000	
75-00-3	[illegible]	Chloroethane	ND	10000	
75-09-2	34423	Methylene Chloride	ND	5000	
75-69-4	34488	Trichlorofluoromethane	ND	10000	
75-35-4	34501	1,1-Dichloroethylene	ND	10000	
75-34-3	34491	1,1-Dichloroethane	ND	5000	
156-60-5	34548	1,2-Dichloroethylene isomers	ND	10000	
67-66-3	32106	Chloroform	ND	5000	
107-06-2	[illegible]	1,2-Dichloroethane	ND	5000	
71-55-6	34506	1,1,1-Trichloroethane	ND	5000	
56-23-5	32102	Carbon Tetrachloride	ND	5000	
75-27-4	[illegible]	Bromodichloromethane	ND	10000	
78-87-5	34541	1,2-Dichloropropane	ND	5000	
10061-02-6	34699	t-1,3-Dichloropropene	ND	5000	
79-01-6	39180	Trichloroethylene	ND	5000	
124-48-1	32105	Dibromochloromethane	ND	10000	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	5000	
79-00-5	34511	1,1,2-Trichloroethane	ND	5000	
71-43-2	34030	Benzene	ND	5000	
110-75-8	34576	2-Chloroethylvinyl ether	ND	75000	
75-25-2	32104	Bromoform	ND	5000	
127-18-4	34475	Tetrachloroethylene	14000	5000	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	5000	
108-88-3	34010	Toluene	ND	5000	
108-90-7	34301	Chlorobenzene	ND	5000	
100-41-4	34371	Ethylbenzene	ND	5000	
107-02-8	34210	Acrolein	ND	250000	
107-13-1	34215	Acrylonitrile	ND	100000	
		Dichlorobenzene isomers	ND	10000	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	25000	
67-64-1	81552	Acetone	ND	215000	
75-15-0	77041	Carbon Disulfide	ND	20000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 83273
Sample Results Continued: UC7-2 (B)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone (MEK)	ND	120000	
108-05-4	77037	Vinyl Acetate	ND	45000	
591-10-6	77103	2-Hexanone	ND	25000	
108-10-1	81595	4-Methyl-2-Pentanone(MIBK)	ND	15000	
100-42-5	81703	Styrene	ND	5000	
1330-02-7	81551	Xylenes (total)	ND	10000	
		1,2-Dibromoethane	ND	5000	
		Tetrahydrofuran	ND	70000	
		Ethyl ether	ND	40000	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	93	77-117
Benzene,d6	106	93-123
Toluene,d8	97	89-109
1,4-Bromofluorobenzene	96	89-113

Notes:
ND=none detected
~=approximate
(=less than
)=greater than

FACILITY SAMPLED: Unifirst

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION II LABORATORY
GC/MS VOLATILE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63274
SAMPLE LOCATION: UC7-3 (c)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS No.	EPA CODE No.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34415	Chloromethane	ND	32500	
74-83-9	34413	Bromomethane	ND	7500	
75-01-4	34475	Vinyl Chloride	ND	10000	
75-00-3	34311	Chloroethane	ND	5000	
75-09-2	34423	Methylene Chloride	ND	2500	
75-69-4	34461	Trichlorofluoromethane	ND	5000	
75-35-4	34501	1,1-Dichloroethylene	ND	5000	
75-34-3	34496	1,1-Dichloroethane	ND	2500	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5000	
67-66-3	32106	Chloroform	ND	2500	
107-06-2	34531	1,2-Dichloroethane	ND	2500	
71-55-6	34506	1,1,1-Trichloroethane	ND	2500	
56-23-5	32102	Carbon Tetrachloride	ND	2500	
75-27-4	32101	Bromodichloromethane	ND	5000	
78-87-5	34541	1,2-Dichloropropane	ND	2500	
10061-02-6	34699	t-1,3-Dichloropropene	ND	2500	
79-01-6	34488	Trichloroethylene	ND	2500	
124-48-1	32105	Dibromochloromethane	ND	2500	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	2500	
79-00-5	34511	1,1,2-Trichloroethane	ND	2500	
71-43-2	34030	Benzene	ND	2500	
110-75-8	34570	2-Chloroethylvinyl ether	ND	37500	
75-25-2	32104	Bromoform	ND	2500	
127-18-4	34475	Tetrachloroethylene	20000	2500	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	2500	
108-88-3	34010	Toluene	ND	2500	
108-90-7	34301	Chlorobenzene	ND	2500	
100-41-4	34371	Ethylbenzene	ND	2500	
107-02-8	34210	Acrolein	ND	125000	
107-13-1	34215	Acrylonitrile	ND	50000	
		Dichlorobenzene isomers	ND	5000	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	12500	
67-64-1	81552	Acetone	ND	107500	
75-15-0	77041	Carbon Disulfide	ND	10000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63274
Sample Results Continued: VC7-3 (c)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81593	2-Butanone(MEK)	ND	60000	
108-05-4	77057	Vinyl Acetate	ND	22500	
591-10-6	77103	2-Hexanone	ND	12500	
108-10-1	81551	4-Methyl-2-Pentanone(MIBK)	ND	7500	
100-42-5	81705	Styrene	ND	2500	
1330-20-7	81551	Xylenes (total)	ND	5000	
		1,2-Dibromoethane (EDB)	ND	2500	
		Tetrahydrofuran	ND	35000	
		Ethyl ether	ND	20000	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	55%Confidence Limits
1,2-Dichloroethane,d4	99	77-117
Benzene,d6	106	93-123
Toluene,d8	97	89-109
1,4-Bromofluorobenzene	98	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION 1 LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 62875
SAMPLE LOCATION: VC7-4 (D)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 11-30-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34418	Chloromethane	ND	32500	
74-83-9	34413	Bromomethane	ND	7500	
75-01-4	39175	Vinyl Chloride	ND	10000	
75-00-3	34311	Chloroethane	ND	5000	
75-09-2	34423	Methylene Chloride	ND	2500	
75-69-4	34488	Trichlorofluoromethane	ND	5000	
75-35-4	34501	1,1-Dichloroethylene	ND	5000	
75-34-3	34496	1,1-Dichloroethane	ND	2500	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	5000	
67-66-3	32106	Chloroform	ND	2500	
107-06-2	34531	1,2-Dichloroethane	ND	2500	
71-55-6	34506	1,1,1-Trichloroethane	ND	2500	
56-23-5	32102	Carbon Tetrachloride	ND	2500	
75-27-4	32101	Bromodichloromethane	ND	5000	
78-87-5	34541	1,2-Dichloropropane	ND	2500	
10061-02-6	34699	t-1,3-Dichloropropene	ND	2500	
79-01-6	39180	Trichloroethylene	ND	2500	
124-48-1	32105	Dibromochloromethane	ND	2500	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	2500	
79-00-5	34511	1,1,2-Trichloroethane	ND	2500	
71-43-2	34030	Benzene	ND	2500	
110-75-8	34575	2-Chloroethylvinyl ether	ND	37500	
75-25-2	32104	Bromoform	ND	2500	
127-18-4	34475	Tetrachloroethylene	18000	2500	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	2500	
108-88-3	34010	Toluene	ND	2500	
108-90-7	34301	Chlorobenzene	ND	2500	
100-41-4	34371	Ethylbenzene	ND	2500	
107-02-8	34210	Acrolein	ND	125000	
107-13-1	34215	Acrylonitrile	ND	50000	
		Dichlorobenzene isomers	ND	5000	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	12500	
67-64-1	81552	Acetone	ND	107500	
75-15-0	77041	Carbon Disulfide	ND	10000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63275
Sample Results Continued: UC7-4 (b)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	60000	
108-05-4	77087	Vinyl Acetate	ND	22500	
591-10-5	77102	2-Hexanone	ND	12500	
108-10-1	81595	4-Methyl-2-Pentanone(MIBK)	ND	7500	
100-42-5	81706	Styrene	ND	2500	
1330-20-7	81551	Xylenes (total)	ND	5000	
		1,2-Dibromoethane (EDB)	ND	2500	
		Tetrahydrofuran	ND	35000	
—		Ethyl ether	ND	20000	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	96	77-117
Benzene,d6	110	93-123
Toluene,d8	99	89-109
1,4-Bromofluorobenzene	101	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION 1 LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63276
SAMPLE LOCATION: UC 7-5 (E)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-4-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34416	Chloromethane	ND	650	
74-83-9	34413	Bromomethane	ND	150	
75-01-4	39175	Vinyl Chloride	ND	200	
75-00-3	34311	Chloroethane	ND	100	
75-09-2	34423	Methylene Chloride	ND	50	
75-69-4	34488	Trichlorofluoromethane	ND	100	
75-35-4	34501	1,1-Dichloroethylene	ND	100	
75-34-3	34496	1,1-Dichloroethane	ND	50	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	100	
67-66-3	32106	Chloroform	ND	50	
107-06-2	34531	1,2-Dichloroethane	ND	50	
71-55-6	34506	1,1,1-Trichloroethane	ND	50	
56-23-5	32102	Carbon Tetrachloride	ND	50	
75-27-4	32101	Bromodichloromethane	ND	100	
78-87-5	34541	1,2-Dichloropropane	ND	50	
10061-02-6	34699	t-1,3-Dichloropropene	ND	50	
79-01-6	39180	Trichloroethylene	ND	50	
124-48-1	32105	Dibromochloromethane	ND	50	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	50	
79-00-5	34511	1,1,2-Trichloroethane	ND	50	
71-43-2	34030	Benzene	ND	50	
110-75-8	34576	2-Chloroethylvinyl ether	ND	750	
75-25-2	32104	Bromoform	ND	50	
127-18-4	34475	Tetrachloroethylene	150	50	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	50	
108-88-3	34010	Toluene	380	50	
108-90-7	34301	Chlorobenzene	ND	50	
100-41-4	34371	Ethylbenzene	ND	50	
107-02-8	34210	Acrolein	ND	2500	
107-13-1	34215	Acrylonitrile	ND	1000	
		Dichlorobenzene isomers	ND	100	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	
67-64-1	81552	Acetone	ND	2150	
75-15-0	77041	Carbon Disulfide	ND	200	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63276
Sample Results Continued: VC-7-5 (E)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	1200	
108-05-4	77057	Vinyl Acetate	ND	450	
591-10-6	77103	2-Hexanone	ND	250	
108-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	150	
100-42-5	81708	Styrene	ND	50	
133-02-7	81551	Xylenes (total)	ND	100	
		1,2-Dibromoethane (EDB)	ND	50	
		Tetrahydrofuran	ND	700	
		Ethyl ether	ND	400	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	103	77-117
Benzene,d6	96	93-123
Toluene,d8	103	89-109
1,4-Bromofluorobenzene	100	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63277
SAMPLE LOCATION: UC9-2 (B) -Dup1
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-3-87
REFERENCE BOOK: 95

SAMPLE VOLUME:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
'4-87-3	34418	Chloromethane	ND	1300	
'4-83-5	34413	Bromomethane	ND	300	
'5-01-4	39175	Vinyl Chloride	ND	400	
'5-00-3	34311	Chloroethane	ND	200	
'5-09-2	34423	Methylene Chloride	ND	100	
'5-65-4	34488	Trichlorofluoromethane	ND	200	
'5-35-4	34501	1,1-Dichloroethylene	ND	200	
'5-34-3	34496	1,1-Dichloroethane	ND	100	
56-60-5	34546	1,2-Dichloroethylene isomers	ND	200	
,7-66-3	32106	Chloroform	ND	100	
07-06-2	34531	1,2-Dichloroethane	ND	100	
'1-55-6	34506	1,1,1-Trichloroethane	ND	100	
6-23-5	32102	Carbon Tetrachloride	ND	100	
'5-27-4	32101	Bromodichloromethane	ND	200	
'8-87-5	34541	1,2-Dichloropropane	ND	100	
0061-02-6	34699	t-1,3-Dichloropropene	ND	100	
'9-01-6	39180	Trichloroethylene	ND	100	
24-48-1	32105	Dibromochloromethane	ND	100	
0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	100	
'9-00-5	34511	1,1,2-Trichloroethane	ND	100	
'1-43-2	34030	Benzene	ND	100	
10-75-8	34576	2-Chloroethylvinyl ether	ND	1500	
'5-25-2	32104	Bromoform	ND	100	
27-18-4	34475	Tetrachloroethylene	380	100	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	100	
08-88-3	34010	Toluene	(100	100	
08-90-7	34301	Chlorobenzene	ND	100	
00-41-4	34371	Ethylbenzene	ND	100	
07-02-8	34210	Acrolein	ND	5000	
07-13-1	34215	Acrylonitrile	ND	2000	
		Dichlorobenzene isomers	ND	200	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5	
.7-64-1	81552	Acetone	ND	4300	
'5-15-0	77041	Carbon Disulfide	ND	400	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

AMPLE NO.: 63277
ample Results Continued: VL 9-2 (B) -Dup

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
8-93-3	81595	2-Butanone(MEK)	ND	2400	
08-05-4	77057	Vinyl Acetate	ND	900	
31-10-6	77102	2-Hexanone	ND	500	
08-10-1	81596	4-Methyl-2-Pentanone(MIBK)	ND	300	
00-42-5	81708	Styrene	ND	100	
33-02-7	81551	Xylenes (total)	ND	200	
		1,2-Dibromoethane (EDB)	ND	100	
		Tetrahydrofuran	ND	1400	
		Ethyl ether	ND	800	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	99	77-117
Benzene,d6	90	93-123
Toluene,d8	97	89-109
1,4-Bromofluorobenzene	101	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63281
SAMPLE LOCATION: UC 9-2 (B) Dup.
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-4-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34416	Chloromethane	ND	650	
74-83-9	34413	Bromomethane	ND	150	
75-01-4	39175	Vinyl Chloride	ND	200	
75-00-3	34311	Chloroethane	ND	100	
75-09-2	34423	Methylene Chloride	ND	50	
75-69-4	34488	Trichlorofluoromethane	ND	100	
75-35-4	34501	1,1-Dichloroethylene	ND	100	
75-34-3	34496	1,1-Dichloroethane	ND	50	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	100	
67-66-3	32106	Chloroform	ND	50	
107-06-2	34531	1,2-Dichloroethane	ND	50	
71-55-6	34506	1,1,1-Trichloroethane	ND	50	
56-23-5	32102	Carbon Tetrachloride	ND	50	
75-27-4	32101	Bromodichloromethane	ND	100	
78-87-5	34541	1,2-Dichloropropane	ND	50	
10061-02-6	34699	t-1,3-Dichloropropene	ND	50	
79-01-6	39180	Trichloroethylene	(50	50	
124-48-1	32105	Dibromochloromethane	ND	50	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	50	
79-00-5	34511	1,1,2-Trichloroethane	ND	50	
71-43-2	34030	Benzene	ND	50	
110-75-8	34075	2-Chloroethylvinyl ether	ND	750	
75-25-2	32104	Bromoform	ND	50	
127-18-4	34475	Tetrachloroethylene	430	50	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	50	
108-88-3	34010	Toluene	84	50	
108-90-7	34301	Chlorobenzene	ND	50	
100-41-4	34371	Ethylbenzene	ND	50	
107-02-8	34210	Acrolein	ND	2500	
107-13-1	34215	Acrylonitrile	ND	1000	
		Dichlorobenzene isomers	ND	100	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	
67-64-1	81552	Acetone	ND	2150	
75-15-0	77041	Carbon Disulfide	ND	200	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63281
Sample Results Continued: UC 9-2(B) Dup

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	1200	
108-05-4	77057	Vinyl Acetate	ND	450	
591-10-6	77103	2-Hexanone	ND	250	
108-10-1	81551	4-Methyl-2-Pentanone(MIBK)	ND	150	
100-42-5	81703	Styrene	ND	50	
1330-02-7	81551	Xylenes (total)	ND	100	
		1,2-Dibromoethane (EDB)	ND	50	
		Tetrahydrofuran	ND	700	
		Ethyl ether	ND	400	

Other Compounds Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	102	77-117
Benzene,d6	94	93-123
Toluene,d8	101	89-109
1,4-Bromofluorobenzene	100	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63278
SAMPLE LOCATION: UC 9-3 (c)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-4-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
74-87-3	34418	Chloromethane	ND	3250	
74-83-5	34413	Bromomethane	ND	750	
75-01-4	39175	Vinyl Chloride	ND	1000	
75-00-3	34311	Chloroethane	ND	500	
75-09-2	34423	Methylene Chloride	ND	250	
75-69-4	34488	Trichlorofluoromethane	ND	500	
75-35-4	34501	1,1-Dichloroethylene	ND	500	
75-34-3	34496	1,1-Dichloroethane	ND	250	
156-60-5	34546	1,2-Dichloroethylene isomers	ND	500	
67-66-3	32106	Chloroform	ND	250	
107-06-2	34531	1,2-Dichloroethane	ND	250	
71-55-6	34506	1,1,1-Trichloroethane	ND	250	
56-23-5	32102	Carbon Tetrachloride	ND	250	
75-27-4	32101	Bromodichloromethane	ND	500	
78-87-5	34541	1,2-Dichloropropane	ND	250	
10061-02-6	34699	t-1,3-Dichloropropene	ND	250	
79-01-6	39180	Trichloroethylene	ND	250	
124-48-1	32105	Dibromochloromethane	ND	250	
10061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	250	
79-00-5	34511	1,1,2-Trichloroethane	ND	250	
71-43-2	34030	Benzene	ND	250	
110-75-8	34575	2-Chloroethylvinyl ether	ND	3750	
75-25-2	32104	Bromoform	ND	250	
127-18-4	34475	Tetrachloroethylene	930	250	
79-34-5	34516	1,1,2,2-Tetrachloroethane	ND	250	
108-88-3	34010	Toluene	ND	250	
108-90-7	34301	Chlorobenzene	ND	250	
100-41-4	34371	Ethylbenzene	ND	250	
107-02-8	34210	Acrolein	ND	12500	
107-13-1	34215	Acrylonitrile	ND	5000	
		Dichlorobenzene isomers	ND	500	
		1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1250	
67-64-1	81552	Acetone	ND	10750	
75-15-0	77041	Carbon Disulfide	ND	1000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

AMPLE NO.: 63278
ample Results Continued: VC 9-3 (c)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
8-93-3	81595	2-Butanone(MEK)	ND	6000	
06-05-4	77057	Vinyl Acetate	ND	2250	
51-10-3	77102	2-Hexanone	ND	1250	
08-10-1	81[illegible]	4-Methyl-2-Pentanone(MIBK)	ND	750	
00-42-5	81705	Styrene	ND	250	
33-02-7	81551	Xylenes (total)	ND	500	
		1,2-Dibromoethane (EDB)	ND	250	
		Tetrahydrofuran	ND	3500	
		Ethyl ether	ND	2000	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	101	77-117
Benzene,d6	96	93-123
Toluene,d8	102	89-109
1,4-Bromofluorobenzene	96	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than

FACILITY SAMPLED: Unifirst

US ENVIRONMENTAL PROTECTION AGENCY
REGION 1 LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63279
SAMPLE LOCATION: UC9-4 (D)
DATE OF COLLECTION:
TIME OF COLLECTION:

DATE OF ANALYSIS: 12-4-87
REFERENCE BOOK: 95

SAMPLE RESULTS:

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
		Priority Pollutants			
'4-87-3	34418	Chloromethane	ND	3250	
'4-83-9	34413	Bromomethane	ND	750	
'5-01-4	39175	Vinyl Chloride	ND	1000	
'5-00-3	34311	Chloroethane	ND	500	
'5-09-2	34423	Methylene Chloride	ND	250	
'5-69-4	34488	Trichlorofluoromethane	ND	500	
'5-35-4	34501	1,1-Dichloroethylene	ND	500	
'5-34-3	34496	1,1-Dichloroethane	ND	250	
.56-60-5	34546	1,2-Dichloroethylene isomers	ND	500	
67-66-3	32106	Chloroform	ND	250	
.07-06-2	34531	1,2-Dichloroethane	ND	250	
'1-55-6	34506	1,1,1-Trichloroethane	ND	250	
36-23-5	32102	Carbon Tetrachloride	ND	250	
'5-27-4	32101	Promodichloromethane	ND	500	
'8-87-5	34541	1,2-Dichloropropane	ND	250	
0061-02-6	34699	t-1,3-Dichloropropene	ND	250	
'9-01-6	39180	Trichloroethylene	ND	250	
.24-48-1	32105	Dibromochloromethane	ND	250	
.0061-01-5	34704	c-1,3-Dichloropropene and/or 1,1-Dichloropropene	ND	250	
'9-00-5	34511	1,1,2-Trichloroethane	ND	250	
'1-43-2	34030	Benzene	ND	250	
.10-75-8	34576	2-Chloroethylvinyl ether	ND	3750	
'5-25-2	32104	Bromoform	ND	250	
27-18-4	34475	Tetrachloroethylene	700	250	
'9-34-5	34516	1,1,2,2-Tetrachloroethane	ND	250	
08-88-3	34010	Toluene	ND	250	
08-50-7	34301	Chlorobenzene	ND	250	
.00-41-4	34371	Ethylbenzene	ND	250	
07-02-8	34210	Acrolein	ND	12500	
.07-13-1	34215	Acrylonitrile	ND	5000	
		Dichlorobenzene isomers	ND	500	
		1,1,2-Trichloro-1,2,2 trifluoroethane	ND	1250	
67-64-1	81552	Acetone	ND	10750	
'5-15-0	77041	Carbon Disulfide	ND	1000	

(con't)

US ENVIRONMENTAL PROTECTION AGENCY
REGION I LABORATORY
GC/MS PURGEABLE ORGANIC ANALYSIS - WATER

SAMPLE NO.: 63279
Sample Results Continued: UC-9-4 (D)

CAS NO.	STORET NO.	Compound	Conc. (ug/L)	Det. Limit (ug/L)	Comments
78-93-3	81595	2-Butanone(MEK)	ND	6000	
108-05-4	77057	Vinyl Acetate	ND	2250	
591-10-6	77103	2-Hexanone	ND	1250	
108-10-1	81556	4-Methyl-2-Pentanone(MIBK)	ND	750	
100-42-5	81703	Styrene	ND	250	
133-02-7	81551	Xylenes (total)	ND	500	
		1,2-Dibromoethane (EDB)	ND	250	
		Tetrahydrofuran	ND	3500	
		Ethyl ether	ND	2000	

Other Compounds
Tentatively Identified

Other Compounds Quantitated

Sample Recoveries for Surrogate Compounds:	Observed Recoveries	95%Confidence Limits
1,2-Dichloroethane,d4	99	77-117
Benzene,d6	95	93-123
Toluene,d8	102	89-109
1,4-Bromofluorobenzene	100	89-113

Notes:
ND=none detected
~=approximate
<=less than
>=greater than