MAY 27 1993

US EPA RECORDS CENTER REGION 5
422291

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 5/24/93

SUBJECT: Review of Region V CLP Data Received for Review on April 22, 1993

FROM: Charles T. Elly, Director (SL-10C) Patrick J. Chunilla for C.T. Elly
Central Regional Laboratory

TO: Data User: PRC

We have reviewed the data for the following case.

SITE NAME: Treasure Island-Mar (OH)

CASE and/or SAS NUMBER: 19635 (1) SDG NUMBER: ETF19

Number and Type of Samples: 10 - water

CLP Sample Numbers: ETF16-22, 27, 33-34

CLP Laboratory: Compuchem Hrs. for Review 15 + 2.5 = 17.5

Following are our findings:

THE DATA ARE USABLE WITH THE QUALIFICATIONS NOTED IN THE ATTACHED REVIEW. - Patrick J. Chunilla 5/24/93

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

cc: Edward Kantor, EMSL-Las Vegas
Julie Frankel, VIAR & Co. (SMO)

NARRATIVE

CONTRACTOR: COMPUCHEM, RTP
CASE: 19635 (1)
SITE: TREASURE ISLAND-MAN (OH)

Ten (10) water samples, numbered ETF16 - 22, ETF27, 33 and ETF34, were collected March 23 and 24, 1993. The CompuChem Laboratory of Research Triangle Park, North Carolina received all ten samples on March 24 and 25, 1993 in good condition following CLP SOW OLM01.8 (8/91). Eight of the ten water samples were analyzed for all three fractions: Volatiles (VOA), Semi-Volatiles (SVOA), and Pesticide/PCBs (Pest/PCBs). The remaining two water samples, ETF27 and ETF34 were analyzed for low level VOAs only.

Water sample ETF16 was used as the low level spike for all three fractions.

Water sample ETF33 was identified as the field blank and water samples ETF27 and ETF34 were identified as the trip blanks. There were no samples in the case identified as field duplicate.

VOA samples were all analyzed within the holding time of foruteen (14) days for preserved water samples; therefore, the results are acceptable. Both SVOA and Pest/PCB samples were extracted within the seven (7) days holding time for water samples and the extracts were then promptly analyzed; therefore, the results are acceptable.

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

Reviewed by: M. Cecilia Luckett MCL **Lockheed/ESAT**
Date: May 19, 1993

NARRATIVE

CONTRACTOR: COMPUCHEM, RTP
CASE: 19635 (1)
SITE: TREASURE ISLAND MAN (OH)

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

1. HOLDING TIME.

CompuChem Laboratory of Research Triangle Park, North Carolina received ten (10) water samples on March 24 and 25, 1993 in good condition per the CLP SOW OLM01.8 (8/91). Eight of the ten water samples were analyzed for low level organics, while the remaining two (2) water samples were analyzed for low level VOAs only.

All VOA analyses were completed within the fourteen (14) days holding time for preserved water samples; therefore, the results are acceptable.

All SVOA and Pest/PCB extractions were completed within the seven (7) days holding time for water samples and the extracts were then promptly analyzed; therefore, the results are acceptable.

2. GC/MS TUNING AND GC PERFORMANCE.

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP. All samples were analyzed within the twelve (12) hour periods for BFB and DFTPP instrument performance checks as well; therefore, the results are acceptable.

The DDT and Endrin degradation check using the PEM of the DB-608 (Varian 04 and 22) and RTX-1701 (Varian 05 and 20) were all < 20.0% and the combined breakdown was < 30.0%; therefore, the results are acceptable.

The Florisil Cartridge Check met the required QC criteria and results are therefore acceptable.

Reviewed by: M. Cecilia Luckett MCL Lockheed/ESAT
Date: May 19, 1993

3. CALIBRATION.

Initial and continuing calibration of VOA and SVOA standards were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

The retention time window and % RSD for the initial and continuing calibration standards for Pest/PCB analysis met the required QC limits.

4. METHOD BLANK.

VBLKKN, VBLKKQ and VBLKWU are the low level water method blanks. VBLKKN reported no TCLs and no TICs; therefore, the results are acceptable. Both VBLKKQ and VBLKWU reported one TCL, Methylene Chloride, a common laboratory contaminant, and no TICs. The presence of Methylene Chloride in any of the samples associated with VBLKKQ or VBLKWU should be flagged as non-detected (U) when the concentration is less than (<) ten (10) times the blank resutls. Please refer to Form IV-VOA (VBLKKQ, VBLKWU) for a list of associated samples.

SBLK03 and SBLK62 are the low level water method blanks. SBLK62 reported one TCL, bis(2-Ethylhexyl)Phthalate, a common laboratory contaminant, and no TICs. The presence of bis(2-Ethylhexyl)Phthalate in any of the samples associated with SBLK62 is flagged as non-detected (U) when the concentration is less than (<) ten (10) times the blank results. Please refer to Form IV-SVOA (SBLK62) for a list of associated samples. SBLK03 reported one TCL, bis(2-Ethylhexyl)Phthalate, a common laboratory contaminant, and three (3) TICs. The presence of bis(2-Ethylhexyl)Phthalate in any of the samples associated with SBLK03 is flagged as non-detected (U) when the concentration is less than (<) ten (10) times the blank results. The presence of any of the TICs in any of the samples associated with SBLK03 is flagged as non-detected (U) when the concentration is less than (<) five (5) times the blank results. Please refer to Form IV-SVOA (SBLK03) for a list of associated samples.

4. METHOD BLANK. (continued)

For the Pest/PCB fraction, there were three (3) instrument blanks for column DB-608 (Varian 04) and column RTX-1701 (Varian 05) and five (5) instrument blanks for column DB-608 (Varian 22) and RTX-1701 (Varian 20). PBLK03 and PBLK91 are the low level water method blanks. There were no target Pesticides or Aroclor/Toxaphene above the CRQL present in PBLK03; therefore, the results are acceptable. PBLK91 reported three TCLs, Heptachlor, Aldrin and 4,4'-DDT. The presence of any of these compounds in any of the samples associated with PBLK91 should be flagged as estimated (J) and non-detected results as estimated (UJ). Please refer to Form IV-Pest/PCB (PBLK91) for a list of associated samples.

5. SURROGATE (SYSTEM MONITORING COMPOUND) RECOVERY.

The low level system monitoring compound recoveries for the VOA fraction and the surrogate recoveries for the SVOA fraction were all within the required QC limits; therefore, the results are acceptable.

For the Pest/PCB fraction, the retention times of Tetrachloro-m-xylene (TCX) and Decachlorobiphenyl (DCB) were well within the required ± 0.05 and ± 0.10 minutes of the mean retention time determined from the initial calibration, respectively.

In the Pest/PCB fraction, ETF22 reported TCX2 high outside the required QC limits; ETF20 and ETF21 reported TCX3 extremely high outside the required QC limits. Positive results associated with sample ETF22 should be flagged as estimated (J); non-detected results do not need to be qualified. Positive results associated with ETF20 and ETF21 should be flagged as estimated (J) and non-detected results as estimated (UJ). Water sample ETF18 and ETF33 reported DCB1 and DCB2 low outside the required QC limits. Positive results associated with ETF18 and 33 should be flagged as estimated (J) and non-detected results as estimated (UJ).

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE.

Water sample ETF16 was used as the low level spike for all three fractions: VOA, SVOA, and Pest/PCB.

The MS/MSD recoveries and %RPD values for the low level VOA, SVOA and Pest/PCB fractions were well within the required QC limits; therefore, the results are acceptable.

7. FIELD BLANK AND FIELD DUPLICATE.

Water sample ETF33 was identified as the field blank and ETF27 and ETF34 were identified as the trip blanks. ETF33 reported no TCLs and no TICs for the VOA fraction, no TCLs and two (2) TICs for the SVOA fraction and no TCLs for the Pest/PCB fraction. Both ETF27 and ETF34 reported no TCLs and no TICs for the VOA fraction. None of the samples in this case were identified as field duplicate.

8. INTERNAL STANDARDS.

The internal standards retention times and area counts for the VOA and SVOA fractions were all well within the required QC limits; therefore, the results are acceptable.

9. COMPOUND IDENTIFICATION.

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

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS.

VOA, SVOA, and Pest/PCB Target Compounds (TCLs) and Tentatively Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE.

GC/MS baseline indicated acceptable performance.

GC baseline counts indicated acceptable performance.

Reviewed by: M. Cecilia Luckett MCL **Lockheed/ESAT**
Date: May 19, 1993

NARRATIVE

CONTRACTOR: COMPUCHEM, RTP
CASE: 19635 (1)
SITE: TREASURE ISLAND-MAN (OH)

12. OVERALL CASE ASSESSMENT.

The table below summarizes the number of target compounds outside the CRQL and the number of tentatively identified compounds associated with these samples.

Sample ID #	# of Hits				
	VOA		SVOA		Pest/PCB
	TCL	TIC	TCL	TIC	TCL
ETF16	0	0	0	6	0
ETF17	0	0	0	3	0
ETF18	0	1	2	8	1
ETF19	3	0	0	4	2
ETF20	2	1	0	9	1
ETF21	2	3	0	1	1
ETF22	1	0	0	20	0
ETF27(TB)	0	0	-	-	-
ETF33(FB)	0	0	0	2	0
ETF34(TB)	0	0	-	-	-

(TB) Results from Trip Blank analysis.

(FB) Results from Field Blank analysis.

Reviewed by: M. Cecilia Luckett MCL Lockheed/ESAT
Date: May 19, 1993

CALIBRATION OUTLIER
VOLATILE TCL COMPOUNDS

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# F50053		Initial Cal			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		3-26-93/0236			3-28-93/1803			3-30-93/1840								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01	0.203	66.0	J	0.138	32.0	J									
Methylene chloride	0.01															
Acetone	0.01	0.117	48.5	J	0.104											
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01	0.191	33.1	J	0.175											
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropene																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
trans-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01	0.104	37.6	J	0.080											
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected: VBLKKN, ETF22, ETF27, 14, 20, 21, V22

Reviewer's Init/Date: CL/5-18-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
VOLATILE TCL COMPOUNDS

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# F50056		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		3-11-93/1002			3-31-93/2006			3-31-93/0731								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Chloromethane	0.01															
Bromomethane	0.10															
Vinyl chloride	0.10															
Chloroethane	0.01															
Methylene chloride	0.01															
Acetone	0.01	0.166	41.2	J	0.124	25.3	J	0.125								
Carbon disulfide	0.01															
1,1-Dichloroethene	0.10															
1,1-Dichloroethane	0.20															
1,2-Dichloroethene (total)																
Chloroform	0.20															
1,2-Dichloroethane	0.10															
2-Butanone	0.01															
1,1,1-Trichloroethane	0.10															
Carbon tetrachloride	0.10															
Bromodichloromethane	0.20															
1,2-Dichloropropene																
cis-1,3-Dichloropropene	0.20															
Trichloroethene	0.30															
Dibromochloromethane	0.10															
1,1,2-Trichloroethane	0.10															
Benzene	0.50															
trans-1,3-Dichloropropene	0.10															
Bromoform	0.10															
4-Methyl-2-pentanone	0.01															
2-Hexanone	0.01															
Tetrachloroethene	0.20															
1,1,2,2-Tetrachloroethane	0.50															
Toluene	0.40															
Chlorobenzene	0.50															
Ethylbenzene	0.10															
Styrene	0.30															
Xylene (total)	0.30															
Toluene-d8																
Bromofluorobenzene																
1,2-Dichloroethane-d4																

Samples affected:

VBLKKQ	VBLKWU
ETF34	ETF16
33	16MS
18	16MSD
17	

Reviewer's Init/Date: CL/5-18-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# OWA02		Initial Cal			Contin. Cal			Contin. Cal			Contin. Cal			Contin. Cal		
Date/Time:		12-10-92/1351			3-29-93/1623			3-30-93/1840								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01	1.193			1.344			1.769	-48.3	J						
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01	0.240			0.300			0.326	-35.8	J						
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

	SBLK62	ETF22
	ETF19	
	20	
	21	

Reviewer's Init/Date: CL/5-18-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# OWA02		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		12-10-92/1351			3-29-93/1623			3-30-93/1840								
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01	0.397			0.640	-61.2	J	0.633	-59.4	J						
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70	1.037			1.280			1.311	-26.4	J						
Carbazole		0.730			0.981	-34.4	J	0.971	-33.0	J						
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01	0.725			1.091	-50.5	J	1.048	-44.6	J						
3,3'-Dichlorobenzidine	0.01	0.172			0.327	-90.1	J	0.386	-124.4	J						
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01	0.980			1.400	-42.9	J	1.410	-43.9	J						
Di-n-octyl phthalate	0.01															
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50	0.841			0.972			0.556	33.9	J						
Dibenz(a,h)anthracene	0.40															
Benzo(g,h,i)perylene	0.50	0.706			0.833			0.485	31.3	J						
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: CL/5-18-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 1)

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# DWA07		Initial Cal			Contin. Cal			Contin. Cal			Contin. Cal			Contin. Cal		
Date/Time:		3-9-93 / 2311			3-30-93 / 1514											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Phenol	0.80															
bis(chloroethyl) Ether	0.70															
2-Chlorophenol	0.70															
1,3-Dichlorobenzene																
1,4-Dichlorobenzene																
1,2-Dichlorobenzene																
2-Methylphenol	0.70															
2,2'-Oxybis(1-chl-propane)	0.01															
4-Methylphenol	0.60															
N-nitroso-di-n-propylamine	0.50															
Hexachloroethane	0.30															
Nitrobenzene	0.20															
Isophorone	0.40															
2-Nitrophenol	0.10															
2,4-Dimethylphenol	0.20															
bis-(2-chloroethoxyl)methane	0.30															
2,4-Dichlorophenol	0.20															
1,2,4-Trichlorobenzene	0.20															
Naphthalene	0.70															
4-Chloroaniline	0.01															
Hexachlorobutadiene	0.01															
4-Chloro-3-methylphenol	0.20															
2-Methylnaphthalene	0.40															
Hexachlorocyclopentadiene	0.01															
2,4,6-Trichlorophenol	0.20															
2,4,5-Trichlorophenol	0.20															
2-Chloronaphthalene	0.80															
2-Nitroaniline	0.01															
Dimethyl phthlate	0.01															
Acenaphthylene	1.30															
2,6-Dinitrotoluene	0.20															
3-Nitroaniline	0.01															
Acenaphthene	0.30															
2,4-Dinitrophenol	0.01															
4-Nitrophenol	0.01															
Dibenzofuran	0.80															
2,4-Dinitrotoluene	0.20															

Affected samples:

SBLK03
ETF16
16MS
16MSD
17
18
33

Reviewer's Init/Date: CL/5-19-93

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\# Minimum Relative Response Factor

CALIBRATION OUTLIER
SEMVOLATILE TCL COMPOUNDS
(Page 2)

CASE\SAS#: 19635(1)

CONTRACTOR: CompuChem, RTP

Instrument# DWA07		Initial Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.			Contin. Cal.		
Date/Time:		3-9-93/2311			3-30-93/1514											
	#	rf	%rsd	*	rf	%d	*	rf	%d	*	rf	%d	*	rf	%d	*
Diethylphthalate	0.01															
4-Chlorophenyl-phenylether	0.40															
Fluorene	0.90															
4-Nitroaniline	0.01															
4,6-Dinitro-2-methylphenol	0.01															
N-nitrosodiphenylamine	0.01															
4-Bromophenyl-phenylether	0.10															
Hexachlorobenzene	0.10															
Pentachlorophenol	0.05															
Phenanthrene	0.70															
Anthracene	0.70															
Carbazole																
Di-n-butylphthalate	0.01															
Fluoranthene	0.60															
Pyrene	0.60															
Butylbenzylphthalate	0.01	0.854			1.101	-28.9	J									
3,3'-Dichlorobenzidine	0.01															
Benzo(a)anthracene	0.80															
Chrysene	0.70															
bis(2-Ethylhexyl)phthalate	0.01	1.051			1.371	-30.4	J									
Di-n-octyl phthalate	0.01	1.825			2.423	-32.8	J									
Benzo(b)fluoranthene	0.70															
Benzo(k)fluoranthene	0.70															
Benzo(a)pyrene	0.70															
Indeno(1,2,3-cd)pyrene	0.50															
Dibenz(a,h)anthracene	0.40															
Benzo(g,h,i)perylene	0.50															
Nitrobenzene-d5	0.01															
2-Fluorobiphenyl	0.70															
Terphenyl-d14	0.50															
Phenol-d5	0.80															
2-Fluorophenol	0.60															
2,4,6-Tribromophenol	0.01															
2-Chlorophenol-d4																
1,2-Dichlorobenzene-d4																

Reviewer's Init/Date: CL/5-19-93

* These flags should be applied to the analytes on the sample data sheets.
\# Minimum Relative Response Factor

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) **CONTRACTOR:** CompuChem, RTP

Column: DB-608

Instrument#: VARIAN04	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	3-9-93/1305		3-9-93/1227		3-10-93/1520		3-27-93/0937	
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								

Affected samples:				
				ETF19
				20
				21
				22
				PBLK91

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) CONTRACTOR: CompuChem, RTP

Column: RTX-1701

Instrument#: VARIAN05	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	3-9-93/1305		3-9-93/1227		3-10-93/1520		3-27-93/0937	
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:							ETF19	
							20	
							21	
							22	
							PBLH91	

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) CONTRACTOR: CompuChem, RTP

Column: DB-608

Instrument#: VARIAN 22	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal	
Date/Time	3-23-93/1132		3-23-93/1053		3-24-93/1113		3-30-93/1122	
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:							PBLK03	
							ETF16MS	
							16	
							17	
							18	
							33	

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) CONTRACTOR: CompuChem, RTP

Column: DB-608

Instrument#: VARIAN 22	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	3-23-93 / 1132		4-8-93 / 2323					
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:			ETF16MSD					

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) CONTRACTOR: ConpaChem, RTP

Column: RTX-1701

Instrument#: VARIAN 20	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont. Cal	
Date/Time	3-23-93 / 1132		3-23-93 / 1053		3-24-93 / 1113		3-30-93 / 1122	
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:							PBLK03	
							ETF16MS	
							16	
							17	
							18	
							33	

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

CALIBRATION OUTLIERS
PEST/PCB TCL COMPOUNDS

CASE\SAS#: 19635(1) CONTRACTOR: CompuChem, RTP

Column: RTX-1701

Instrument#: VARIAN20	Init. Cal.		Cont. Cal.		Cont. Cal.		Cont.Cal	
Date/Time	3-23-93/1132		4-8-93/2323					
	%RSD	*	%RPD	*	%RPD	*	%RPD	*
Alpha-BHC								
Beta-BHC								
Delta-BHC								
Gamma-BHC								
Heptachlor								
Aldrin								
Heptachlor epoxide								
Endosulfan I								
Dieldrin								
4,4'-DDE								
Endrin								
Endosulfan II								
4,4'-DDD								
Endosulfan sulfate								
4,4'-DDT								
Methoxychlor								
Endrin ketone								
Endrin aldehyde								
Alpha chlordane								
Gamma chlordane								
Aroclor-1016								
Aroclor-1221								
Aroclor-1232								
Aroclor-1242								
Aroclor-1248								
Aroclor-1254								
Aroclor-1260								
Toxaphene								
Affected samples:			ETF16MSD					

Pest/PCB

Reviewer's Initial/Date CL/5-19-93

3/90 Rev

* These flags should be applied to the analytes on the Sample Data Sheets.

DATA REPORTING QUALIFIERS
(page 1)

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

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

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

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

and df = dilution factor

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

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

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

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

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

DATA REPORTING QUALIFIERS
(page 2)

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but unsuccessful, do not apply this flag, instead use a laboratory-defined, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for the specific analysis. This flag will not apply to pesticide/PCBs analyzed by GC/MS methods. If one or more compounds have a response greater than full scale, the sample or extract must be diluted and re-analyzed according to the specifications. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the Sample Data Summary Package and the SDG Narrative. If more than one flag is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B" and "D" flags for some sample. The laboratory-defined are limited to letters "X", "Y" and "Z".

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

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 19635

1. Sample Description (Enter in Column A)	2. Preservative (Enter in Column D)	3. Region No.	Sampling Co.	5. Date Shipped	Carrier	7. Date Received -- Received by
1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)	1. HCl 2. HNO3 3. NaHSO4 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved	5	PRC EMI	3/23/93	Federal Express	3.24.93 Joan Purdie
		Sampler (Name): K. [illegible]		Airbill Number: 6030644196		Laboratory Contract Number: 68D00159 — Unit Price: 697.00
		Sampler Signature: [signature]		6. Ship To: Compuchem Laboratories, 3308 Chapel Hill/Nelson Highway, Research Triangle Park, NC 27709		8. Transfer to — Date Received
		4. Type of Activity: Lead: SF [X], PRP [ ], ST [ ], FED [ ]; Pre-Remedial: PA [ ], SSI [X], LSI [ ]; Remedial: RIFS [ ], RD [ ], RA [ ], O&M [ ], NPLD [ ]; Removal: CLEM [ ], REMA [ ], REM [ ], OIL [ ], UST [ ]		ATTN: Terry Evans		Received by
						Contract Number — Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water -- Mis Liq.	Non Water -- Mis Liq.
ETF27	4	L	G	1	X				16884 16885	TI-TR-1	3/23/93 1400		—				
									541513								

Shipment for Case complete? (Y/N)	Page 1 of ___ PAGE 2 OF 2	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
				140851, 140852

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/23/93 1700	Kristine C. Kunk	Kristine C. Kunk	3/23/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Joan Purdie	Date / Time 3.24.93 0830	Remarks Is custody seal intact? (Y)/N/none	

RECEIVED IN 3.24.93

Split Samples [ ] Accepted [ ] Declined (Signature)

GOOD CONDITION

EPA Form 8110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

0340253

SAMPLE DATA PACKAGE 19635 ETF 19

EPA Contract Laboratory Program Sample Management Office
PO Box 818 Alexandria, VA 22313
703-557-2490 FTS 557-2490

Organic Traffic Report & Chain of Custody Record
(For Organic CLP Analysis)

(If applicable) 19635

1. Sample Description (Enter in Column A)	2. Preservative (Enter in Column D)	3. Region No.	Sampling Co.	5. Date Shipped	Carrier	7. Date Received -- Received by
1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)	1. HCl 2. HNO3 3. NaHSO4 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved	5	PRC/EMI	3-23-93	FEDERAL EXPRESS	3-24-93 Joan Purdie
		Sampler (Name): K. Gorzelik		Airbill Number: 603064 4196		Laboratory Contract Number: 68D00159 — Unit Price: 697.00
		Sampler Signature: [signature]		6. Ship To: COMPUCHEM LABORATORIES 3308 CHAPEL HILL/NELSON HWY. RESEARCH TRIANGLE PARK, NC 27709		8. Transfer to — Date Received
		4. Type of Activity: Lead: SF [X], PRP [ ], ST [ ], FED [ ]; Pre-Remedial: PA [ ], SSI [X], LSI [ ]; Remedial: RIFS [ ], RD [ ], RA [ ], O&M [ ], NPLD [ ]; Removal: CLEM [ ], REMA [ ], REM [ ], OIL [ ], UST [ ]		ATTN: TERRY EVANS		Received by
						Contract Number — Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
ETF 23	5	L	G	6	X				16933-16934	TI-SD-01	3/23/93 1330		MERS 88				
ETF 23	5	L	G	6		X	X		16932	TI-SD-01	3/23/93 1330		MERS 88				
ETF 24	5	L	G	6	X				16958-16959	TI-SD-02	3/23/93 1230		MERS 89				
ETF 24	5	L	G	6	~~X~~	X	X		16960	TI-SD-02	3/23/93 1230		MERS 89				
ETF 25	5	L	G	6	X				16886-16887	TI-SD-02D	3/23/93 1230		MERS 90				
ETF 25	5	L	G	6		X	X		16888	TI-SD-02D	3/23/93 1230		MERS 90				
ETF 26	5	L	G	6	X				16890-16891	TI-SD-04	3/23/93 1430		MERS 91				
ETF 26	5	L	G	6		X	X		16892	TI-SD-04	3/23/93 1430		MERS 91				

Shipment for Case complete? (Y/N)	Page 1 of 1	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
				140857, 140858

541 487, 495 498, 499

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/23/93 1700	Kristine C. Kuck	Kristine C. Kuck	3/23/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	Is custody seal intact? (Y) N/none
		Joan Purdie	3-24-93 0830		

RECEIVED IN GOOD CONDITION
[initials] 3-24-93

Split Samples [ ] Accepted [ ] Declined (Signature)

EPA Form 8110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O340256

Org-2

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 19635

1. Sample Description (Enter in Column A)	2. Preservative (Enter in Column D)	3. Region No.	Sampling Co.	5. Date Shipped	Carrier	7. Date Received -- Received by
1. Surface Water 2. Ground Water 3. Leachate 4. Rinsate 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify)	1. HCl 2. HNO3 3. NaHSO4 4. H_2SO_4 5. Other (Specify) 6. Ice only N. Not preserved	5	PRC EMI	3/23/93	FEDERAL EXPRESS	3-24-93 Joan Purdie
		Sampler (Name): K. GRIZLIK		Airbill Number: 6030644196		Laboratory Contract Number: 68D00159
		Sampler Signature: [signature]		6. Ship To: COMPUCHEM LABORATORIES 3308 CHAPEL HILL/NELSON HWY, RESEARCH TRIANGLE PARK, NC 27709 ATTN: TERRY EVANS		8. Transfer to
		4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal SF [X] PRP [ ] ST [ ] FED [ ] PA [ ] SSI [X] LSI [ ] RIFS [ ] RD [ ] RA [ ] O&M [ ] NPLD [ ] CLEM [ ] REMA [ ] REM [ ] OIL [ ] UST [ ]				Received by
						Contract Number
						Unit Price: 697.00
						Date Received
						Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
ETF 22	1	L	G	6		X			16880	TI-SW-04	3/23/93 1430		MERS 87				
ETF 22	1	L	G	6			X		16881	TI-SW-04	3/23/93 1430		MERS 87				
										541512							

Shipment for Case complete? (Y/N)	Page 1 of 1	Sample used for a spike and/or duplicate	Additional Sampler Signatures	Chain of Custody Seal Number
				140853, 140854

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[signature]	3/23/93 1700	Kristine C. Kurk	Kristine C. Kurk	3/23/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Joan Purdie	Date / Time 3-24-93 0830	Remarks Is custody seal intact? (Y)/N/none	

RECEIVED IN GOOD CONDITION 3-24-93

Split Samples [ ] Accepted [ ] Declined (Signature)

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

DISTRIBUTION:
Blue - Region Copy Pink - SMO Copy White - Lab Copy for Return to Region Yellow - Lab Copy for Return to SMO

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O340255

SAMPLE DATA PACKAGE 19635 ETF 19

Org-2

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 19635

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: 5

Sampling Co.: PRC EMI

Sampler (Name): [illegible]

Sampler Signature: [illegible]

4. Type of Activity: Lead: SF [X], PRP, ST, FED; Pre-Remedial: PA, SSI [X], LSI; Remedial: RIFS, RD, RA, O&M, NPLD; Removal: CLEM, REMA, REM, OIL, UST

5. Date Shipped: 3/23/93

Carrier: FEDERAL EXPRESS

Airbill Number: 6030644196

6. Ship To: COMPUCHEM LABORATORIES, 3308 CHAPEL HILL/NELSON HWY, TRIANGLE PARK, NC 27709, RESEARCH PARK

ATTN: TERRY EVANS

7. Date Received -- Received by: 3·24·93 Joan Purdie

Laboratory Contract Number: 68D00159

Unit Price: 697.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water – Mis Liq.	Non Water – Mis Liq.
ETF19	1	L	G	1	X				16940-16941	TI-SW-01	3/23/93 1330		MERS 84				
ETF19	1	L	G	6		X			16942	TI-SW-01	3/23/93 1330		MERS 84				
ETF19	1	L	G	6			X		16943	TI-SW-01	3/23/93 1330		MERS 84				
ETF20	1	L	G	1	X				16946-16947	TI-SW-02	3/23/93 1230		MERS 85				
ETF20	1	L	G	6		X			16948	TI-SW-02	3/23/93 1230		MERS 85				
ETF20	1	L	G	6			X		16949	TI-SW-02	3/23/93 1230		MERS 85				
ETF21	1	L	G	1	X				16952-16953	TI-SW-02D	3/23/93 1230		MERS 86				
ETF21	1	L	G	6		X			16954	TI-SW-02D	3/23/93 1230		MERS 86				
ETF21	1	L	G	6			X		16955	TI-SW-02D	3/23/93 1230		MERS 86				
ETF22	1	L	G	1	X				16878-16879	TI-SW-04	3/23/93 1430		MERS 87				

Shipment for Case complete? (Y/N): N

Page 1 of 2

Sample used for a spike and/or duplicate:

Additional Sampler Signatures:

Chain of Custody Seal Number: 140851, 140852

591500, 510, 511, 512

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
[illegible]	3/23/93 1700	Kristine C. Kurk	Kristine C. Kurk	3/23/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/None	
		Joan Purdie	3·24·93 0830	RECEIVED IN GOOD CONDITION 3·24·93	

Split Samples: [ ] Accepted (Signature) [ ] Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

0340254

SAMPLE DATA PACKAGE 19635 ETF '9

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable)

Case No. 19635

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: 5
Sampling Co.: PRC EMI
Sampler (Name): K. GRZLIK
Sampler Signature: K. [signature]

4. Type of Activity: Lead / Pre-Remedial / Remedial / Removal
SF [X] PRP [ ] ST [ ] FED [ ] PA [ ] SSI [X] LSI [ ] RIFS [ ] RD [ ] RA [ ] O&M [ ] NPLD [ ] CLEM [ ] REMA [ ] REM [ ] OIL [ ] UST [ ]

5. Date Shipped: 3/24/93
Carrier: FEDERAL EXPRESS
Airbill Number: 5899448251

6. Ship To: COMPUCHEM LABORATORIES
3308 CHAPEL HILL/NELSON HWY.
RESEARCH TRIANGLE PARK, NC
27709
ATTN: TERRY EVANS

7. Date Received -- Received by: 3·25·93 Joan Purdie
Laboratory Contract Number: 68D00159
Unit Price: 697.00

8. Transfer to:
Date Received:
Received by:
Contract Number:
Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below): Solids	Water – Mis Liq.	Non Water – Mis Liq.
ETF33	4	L	G	1	X				16894-16895	TI-FB-01	3/24/93 1245	KSG	MI RSF85				
										541815							

Shipment for Case complete? (Y/N) Y
~~Page 1 of~~ PAGE 2 OF 2
Sample used for a spike and/or duplicate:
Additional Sampler Signatures:
Chain of Custody Seal Number: 140867, 140868

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
K. [signature]	3/24/93 1700	Kristine C. Kuk	Kristine C. Kuk	3/24/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) Joan Purdie	Date / Time 3·25·93 0830	Remarks Is custody seal intact? Y/N/none	

RECEIVED IN GOOD CONDITION 3·25·93

Split Samples [ ] Accepted (Signature) [ ] Declined

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

O340260

SAMPLE DATA PACKAGE 19635 ETF 19

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (If applicable):

Case No.: 19635

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: 5

Sampling Co.: PRC/EMI

5. Date Shipped: 3/24/93

Carrier: Federal Express

7. Date Received -- Received by: 3.25.93 Joan Purdie

Sampler (Name): K. GREELIK

Airbill Number: 5899448251

Laboratory Contract Number: 68D00159

Unit Price: 697.00

Sampler Signature:

6. Ship To: Compuchem Laboratories
3308 Chapel Hill / Nelson Hwy
Research Triangle Park, NC 27709
ATTN: Terry Evans

8. Transfer to

Date Received

Received by

Contract Number

Price

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI X	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec't	L High Conc. Phases (Check below) Solids	Water - Mis Liq.	Non Water - Mis Liq.
ETF 18	2	L	G	6		X			016929	TI-GW-01	3/24/93 1200	KSG	MERS98				
ETF 18	2	L	G	6			X		016930	TI-GW-01	3/24/93 1200	KSG	MERS98				
ETF 33	4	L	G	6		X			16999-17000	TI-FB-01	3/24/93 1245	KSG	MESF 85				
ETF 33	4	L	G	6			X		16997-16998	TI-FB-01	3/24/93 1245	KSG	MESF 85				
										541814							
										815							

Shipment for Case complete? (Y/N): Yes

Page 1 of 1

Sample used for a spike and/or duplicate

Additional Sampler Signatures

Chain of Custody Seal Number: 140861, 140862

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
	3/24/93 1700	Kristine C. Kruk	Kristine C. Kruk	3/24/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks Is custody seal intact? Y/N/none	
		Joan Purdie	3.25.93 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-2

0340259

SAMPLE DATA PACKAGE 19635 ETF 18

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 19635

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: 5

Sampling Co.: PRC EMI

Sampler (Name): K. GRZELIK

Sampler Signature: K

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	X		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped: 3/24/93

Carrier: FEDERAL EXPRESS

Airbill Number: 5899448251

6. Ship To: COMPUCHEM LABORATORIES
3308 CHAPEL HILL/NELSON HWY.
RESEARCH TRIANGLE PARK, NC
27709
ATTN: TERRY EVANS

7. Date Received -- Received by: 3.25.93 Joan Purdie

Laboratory Contract Number: 68D00159

Unit Price: 697.00

8. Transfer to:

Date Received:

Received by:

Contract Number:

Price:

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
ETF 16	1	L	G	1	X				16966-16967-16968 16969-16970-16971	TI-SW-03	3/24/93 1300	KSG	MERS92				
ETF 16	1	L	G	6		X			16981-16983	TI-SW-03	3/24/93 1300	KSG	MERS92				
ETF 16	1	L	G	6			X		16982-16984	TI-SW-03	3/24/93 1300	KSG	MERS92				
ETF 17	1	L	G	1	X				16896-16897	TI-SW-05	3/24/93 1400	KSG	MERS93				
ETF 17	1	L	G	6		X			16898	TI-SW-05	3/24/93 1400	KSG	MERS93				
ETF 17	1	L	G	6			X		16899	TI-SW-05	3/24/93 1400	KSG	MERS93				
ETF 18	2	L	G	1	X				16927-16928	TI-GW-01	3/24/93 1200	KSG	MERS98				
ETF 18	2	L	G	6		X				TI-GW-01	3/24/93						
~~ETF 18~~	~~2~~	~~L~~															
ETF 34	4	L	G	1	X				16995-16996	TI-TB-02	3/24/93 1300	KSG	—				

Shipment for Case complete? (Y/N): Yes

Page 1 of 2

Sample used for a spike and/or duplicate: ETF 16

Additional Sampler Signatures:

Chain of Custody Seal Number: 140867, 140868

541812, 813, 814, 816

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
K	3/24/93 1700	Kristin C. Kunk	Kristin C. Kunk	3/24/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? Y/N/none	
		Joan Purdie	3.25.93 0830		

Split Samples: ☐ Accepted (Signature) ☐ Declined

RECEIVED IN GOOD CONDITION 3/25/93

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0340257

SAMPLE DATA PACKAGE 19635 ETF 19

EPA

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

Organic Traffic Report & Chain of Custody Record

(For Organic CLP Analysis)

SAS No. (if applicable):

Case No.: 19635

1. Sample Description (Enter in Column A)
   1. Surface Water
   2. Ground Water
   3. Leachate
   4. Rinsate
   5. Soil/Sediment
   6. Oil (High only)
   7. Waste (High only)
   8. Other (Specify)

2. Preservative (Enter in Column D)
   1. HCl
   2. HNO3
   3. NaHSO4
   4. H_2SO_4
   5. Other (Specify)
   6. Ice only
   N. Not preserved

3. Region No.: 5

Sampling Co.: PRC-EMI

Sampler (Name): Trisha Miller

Sampler Signature: Trisha Miller

4. Type of Activity

	Lead	Pre-Remedial	Remedial	Removal
SF	☒		RIFS	CLEM
PRP		PA	RD	REMA
ST		SSI ☒	RA	REM
FED		LSI	O&M	OIL
			NPLD	UST

5. Date Shipped: 3/24/93

Carrier: FEDERAL EXPRESS

Airbill Number: 5899448251

6. Ship To: COMPUCHEM LABORATORIES, 3308 CHAPEL HILL/NELSON HWY, RESEARCH TRIANGLE PARK, NC 27709

ATTN: TERRY EVANS

7. Date Received -- Received by: 3-25-93 Joan Purdie

Laboratory Contract Number: 68D00159

Unit Price: 697.00

8. Transfer to

Date Received

Received by

Contract Number

Price

CLP Sample Numbers (from labels)	A Enter # From Box 1	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative from Box 6	E RAS Analysis: VOA	BNA	Pest/PCB	High ARO/TOX	F Regional Specific Tracking Number or Tag Numbers	G Station Location Number	H Mo/Day/Year/Time Sample Collection	I Sampler Initials	J Corresp. CLP Inorg. Samp. No.	K Sample Condition on Rec'd	L High Conc. Phases (Check below): Solids	Water - Mis Liq.	Non Water - Mis Liq.
ETF 28	5	L	G	6	X				16937-16938	TI-SD-03	3/24/93		MERS99				
ETF 28	5	L	G	6		X	X		16939	TI-SD-03	3/24/93		MERS99				
ETF 29	5	L	G	6	X				16900, 16972	TI-SD-05	3/24/93		MERS94				
ETF 29	5	L	G	6		X	X		16973	TI-SD-05	3/24/93		MERS94				
ETF 30	5	L	G	6	X				16975, 16979	TI-SD-06	3/24/93		MERS95				
ETF 30	5	L	G	6		X	X		16978	TI-SD-06	3/24/93		MERS95				
ETF 31	5	L	G	6	X				16987-16988	TI-SD-07	3/24/93		MERS96				
ETF 31	5	L	G	6		X	X		16989	TI-SD-07	3/24/93		MERS96				
ETF 32	5	L	G	6	X				16991-16992	TI-SD-08	3/24/93		MERS97				
ETF 32	5	L	G	6		X	X		16993	TI-SD-08	3/24/93		MERS97				

Shipment for Case complete? (Y/N): Y

Page 1 of 1

Sample used for a spike and/or duplicate: ETF 28

Additional Sampler Signatures:

Chain of Custody Seal Number: 140865, 140866

541817, 827, 828, 829, 830

CHAIN OF CUSTODY RECORD

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Trisha Miller	3/24/93 1700	Kristine C. Kruk	Kristine C. Kruk	3/24/93 1800	
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks: Is custody seal intact? (Y)/N/none	
		Joan Purdie	3-25-93 0830	RECEIVED IN GOOD CONDITION 3-25-93	

Split Samples: ☐ Accepted (Signature) ☐ Declined

EPA Form 9110-2 (Rev. 5-91) Replaces EPA Form (2075-7), previous edition which may be used

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SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS

Org-2

0340258

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

SDG NARRATIVE

Case # 19635
SDG # ETF19
Contract # 68D00159

Sample Identifications: ETF16, ETF17, ETF18, ETF19, ETF20, ETF21, ETF22, ETF27, ETF33, ETF34

The ten (10) water samples listed above were received intact, properly refrigerated, with proper documentation, in a sealed shipping container, on March 24 through March 25, 1993. The samples were scheduled for the requested analyses of the volatile, semivolatile, and pesticide/PCB fractions. Two of these samples requested volatile fraction only analysis. These samples were analyzed following 3/90 Statement of Work (SOW) (document OLM01.8) protocol.

All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for Case 19635, SDG ETF19 are included in the sample data sections.

VOLATILES:
Analysis holding time requirements were met for all of these samples. There were no volatile Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in any of these samples. Tentatively Identified Compounds (TICs) were found in three of these samples. The TICs found in these samples could be characterized as substituted benzenes, unknowns, and laboratory artifacts. The laboratory artifacts may not be considered as sample constituents.

All of the system monitoring compounds met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria. Two of the three method blanks contained levels of the common laboratory solvent methylene chloride within allowable limits.

The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

SEMIVOLATILES:
Extraction and analysis holding time requirements were met for all of these samples. There were no semivolatile Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in any of these samples. Tentatively Identified Compounds (TICs) were found in all of these samples. These TICs could be characterized as unknown hydrocarbons, unknown siloxanes, unknowns, laboratory artifacts and blank contaminants. The laboratory artifacts and blank contaminant TICs may not be considered as sample constituents.

COMPUCHEM LABORATORIES, INC. P.O. Box 12652 3308 Chapel Hill/Nelson Highway Research Triangle Park, NC 27709 (919) 549-8263

All of the surrogates met recovery criteria in the analyses of these samples. All of the internal standards met response and retention time criteria in the analyses of these samples.

The associated method blanks met all quality control criteria. The method blanks contained levels of phthalate esters within allowable limits. TICs were found in these method blanks.

The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

PESTICIDES/PCB'S:
Extraction and analysis holding time requirements were met for all of these samples. There were no pesticide/PCB TCL analytes confirmed by dual column above the CRQL in any of these samples.

One or more advisory surrogates in ETF18 and ETF33 failed quality control criteria. However, these recoveries were greater than our internal minimum acceptance criteria limit of twenty percent (20%), which indicates possible extraction problems. Therefore we have reported the data without further analysis.

Severe matrix interference on the RTX-1701 column in the analyses of ETF20, ETF21, and ETF22 precluded the accurate identification and quantitation of the advisory surrogate tetrachloro-m-xylene. The remaining samples met all advisory surrogate recovery criteria.

The associated method blanks met all quality control criteria. These method blanks contained levels of heptachlor, aldrin and DDT within acceptance criteria limits.

The associated duplicate matrix spikes met all advisory accuracy and precision criteria.

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

Daniel Boone 4/21/93

Daniel E. Boone, Jr.
Technical Reviewer
April 21, 1993

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	ETF16	96	102	106	0	0
02	ETF17	94	96	95	0	0
03	ETF18	99	97	99	0	0
04	ETF19	90	93	89	0	0
05	ETF20	100	103	92	0	0
06	ETF21	109	99	95	0	0
07	ETF22	105	107	99	0	0
08	ETF27	96	89	88	0	0
09	ETF33	94	96	101	0	0
10	ETF34	97	97	100	0	0
11	ETF16MS	95	100	108	0	0
12	ETF16MSD	97	103	104	0	0
13	VBLKKN	93	94	93	0	0
14	VBLKWU	102	108	99	0	0
15	VBLKKQ	103	102	103	0	0

		QC LIMITS
SMC1 (TOL)	= Toluene-d8	(88-110)
SMC2 (BFB)	= Bromofluorobenzene	(86-115)
SMC3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix Spike - EPA Sample No.: ETF16

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	0	43.32	87	61-145
Trichloroethene	50.00	0	48.79	98	71-120
Benzene	50.00	0	55.02	110	76-127
Toluene	50.00	0	49.06	98	76-125
Chlorobenzene	50.00	0	48.70	97	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	44.01	88	1	14	61-145
Trichloroethene	50.00	48.98	98	0	14	71-120
Benzene	50.00	53.08	106	4	11	76-127
Toluene	50.00	49.06	98	0	13	76-125
Chlorobenzene	50.00	48.95	98	1	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: CLP,19635,ETF19,ETF16,LOW,WATER,541812,VOA,EPA,F50056
DB624,CS930331C56,BF930331C56,CB543197A56

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKKN

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Lab File ID: CC930328B53 Lab Sample ID: VBLKKN

Date Analyzed: 03/28/93 Time Analyzed: 1935

GC Column: DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: F50053

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ETF19	541500	CN041500B53	2324
02	ETF20	541510	CN041510B53	0104
03	ETF21	541511	CN041511B53	0136
04	ETF22	541512	CN041512B53	0209
05	ETF27	541513	CN041513B53	2250

COMMENTS: CLP,BLANK,,VBLKKN,LOW,WATER,,VOA,BLANK,F50053
DB624,CS930328B53,BF930328B53

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKWU

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Lab File ID: CB543197A56 Lab Sample ID: VBLKWU

Date Analyzed: 03/31/93 Time Analyzed: 0820

GC Column: DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: F50056

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ETF16	541812	CN041812B56	1721
02	ETF16MS	541501	CR041501B56	1752
03	ETF16MSD	541502	CR041502B56	1822

COMMENTS: CLP,BLANK,,VBLKWU,LOW,WATER,543197,VOA,EPA,F50056
DB624,CS930331C56,BF930331C56

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKKQ

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Lab File ID: CB930331B56 Lab Sample ID: VBLKKQ

Date Analyzed: 03/31/93 Time Analyzed: 2050

GC Column: DB-624 ID: 0.530(mm) Heated Purge: (Y/N) N

Instrument ID: F50056

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	ETF17	541813	CN041813B56	2326
02	ETF18	541814	CN041814B56	2255
03	ETF33	541815	CN041815B56	2225
04	ETF34	541816	CN041816B56	2154

COMMENTS: CLP,BLANK,,VBLKKQ,LOW,WATER,,VOA,BLANK,F50056
DB624,CS930331B56,BF930331B56

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKN

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CC930328B53

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

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

FORM I VOA 3/90

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKKN

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CC930328B53

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

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKWU

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB543197A56

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

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKWU

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CB543197A56

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

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKKQ

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CB930331B56

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

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	3	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKKQ

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

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

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CB930331B56

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

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041812B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	BJU
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CL 5-18-93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041812B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041813B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	BJU
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CL 5-18-93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041813B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041814B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~2~~	BJU
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CL 5-18-93

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041814B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	SUBSTITUTED BENZENE	17.93	13	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041500B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	2	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	1	J
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041500B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041510B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041510B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	LABORATORY ARTIFACT	16.83	11	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041511B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	1	J
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041511B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	9.27	9	J
2.	LABORATORY ARTIFACT	17.02	9	J
3.	LABORATORY ARTIFACT	17.17	8	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041512B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	2	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: CN041512B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/29/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF27

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541513

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041513B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF27

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541513

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041513B53

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: not dec. ____ Date Analyzed: 03/28/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041815B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	BJU
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CL 5-18-92

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041815B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF34

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541816

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041816B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10 ~~1~~	BJ U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	Trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CL 5-18-93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF34

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541816

Sample wt/vol: 5.00 (g/mL) ML Lab File ID: CN041816B56

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: not dec. ____ Date Analyzed: 03/31/93

GC Column: DB-624 ID: 0.530 (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

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	ETF16	54	60	75	52	49	74	56	56	0
02	ETF17	51	56	67	48	48	71	55	56	0
03	ETF18	59	64	83	55	52	77	61	58	0
04	ETF19	65	51	62	68	60	64	66	50	0
05	ETF20	78	58	77	80	72	75	77	52	0
06	ETF21	80	59	87	85	73	79	79	50	0
07	ETF22	88	66	99	91	84	70	88	56	0
08	ETF33	56	60	77	54	52	75	60	57	0
09	ETF16MS	59	63	70	56	51	74	58	56	0
10	ETF16MSD	50	52	62	49	47	64	51	54	0
11	SBLK62	84	74	77	77	71	72	77	73	0
12	SBLK03	50	54	70	49	46	58	52	55	0

		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

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

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix Spike - EPA Sample No.: ETF16

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	75.00	0	41.50	55	12-110
2-Chlorophenol	75.00	0	41.80	56	27-123
1,4-Dichlorobenzene	50.00	0	26.36	53	36- 97
N-Nitroso-di-n-prop.(1)	50.00	0	34.71	69	41-116
1,2,4-Trichlorobenzene	50.00	0	34.19	68	39- 98
4-Chloro-3-methylphenol	75.00	0	55.15	74	23- 97
Acenaphthene	50.00	0	33.67	67	46-118
4-Nitrophenol	75.00	0	48.71	65	10- 80
2,4-Dinitrotoluene	50.00	0	32.32	65	24- 96
Pentachlorophenol	75.00	0	62.45	83	9-103
Pyrene	50.00	0	32.92	66	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75.00	37.66	50	10	42	12-110
2-Chlorophenol	75.00	38.22	51	9	40	27-123
1,4-Dichlorobenzene	50.00	27.09	54	2	28	36- 97
N-Nitroso-di-n-prop.(1)	50.00	32.87	66	4	38	41-116
1,2,4-Trichlorobenzene	50.00	32.80	66	3	28	39- 98
4-Chloro-3-methylphenol	75.00	48.84	65	13	42	23- 97
Acenaphthene	50.00	28.61	57	16	31	46-118
4-Nitrophenol	75.00	40.53	54	18	50	10- 80
2,4-Dinitrotoluene	50.00	28.81	58	11	38	24- 96
Pentachlorophenol	75.00	53.30	71	16	50	9-103
Pyrene	50.00	28.84	58	13	31	26-127

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: CLP ,19635,ETF19,ETF16,LOW,WATER,541812,BNA,EPA,
CAP, HG930330A07,DF930330A07, , , ,

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK62

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Lab File ID: GH042341A02 Lab Sample ID: SBLK62

Instrument ID: OWA02 Date Extracted: 03/26/93

Matrix: (soil/water) WATER Date Analyzed: 03/29/93

Level:(low/med) LOW Time Analyzed: 1935

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ETF19	541500	GH041500A02	03/29/93
02	ETF20	541510	GH041510A02	03/29/93
03	ETF21	541511	GH041511A02	03/29/93
04	ETF22	541512	GJ041512A02	03/30/93

COMMENTS: CLP , , , ,LOW,WATER,542341,BNA,BLANK,
CAP, HG930329B02,DF930329A02, , , ,

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK03

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Lab File ID: GH043049B07 Lab Sample ID: SBLK03

Instrument ID: OWA07 Date Extracted: 03/29/93

Matrix: (soil/water) WATER Date Analyzed: 03/30/93

Level:(low/med) LOW Time Analyzed: 1901

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	ETF16	541812	GH041812B07	03/30/93
02	ETF17	541813	GH041813B07	03/30/93
03	ETF18	541814	GH041814B07	03/30/93
04	ETF33	541815	GH041815B07	03/30/93
05	ETF16MS	541504	GH041504B07	03/30/93
06	ETF16MSD	541505	GH041505B07	03/30/93

COMMENTS: CLP , , , ,LOW,WATER,543049,BNA,BLANK,
CAP, HG930330A07,DF930330A07, , , ,

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK62

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK62

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH042341A02

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK62

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK62

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH042341A02

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	6	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK62

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK62

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH042341A02

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH043049B07

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK03

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH043049B07

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	1	J
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK03

Lab Name: COMPUCHEM.RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: SBLK03

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH043049B07

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

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.38	6	J
2. 930-68-7	2-CYCLOHEXEN-1-ONE	6.23	3	JN
3.	LABORATORY ARTIFACT	17.33	2	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041812B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041812B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~1~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041812B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BLANK CONTAMINANT	5.35	4	BJ u
2.	UNKNOWN HYDROCARBON	15.52	6	J
3.	UNKNOWN HYDROCARBON	16.03	9	J
4.	UNKNOWN HYDROCARBON	16.62	10	J
5.	UNKNOWN HYDROCARBON	17.27	10	J
6.	UNKNOWN HYDROCARBON	18.03	4	J

CL 5-19-9

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041813B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041813B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~2~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041813B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BLANK CONTAMINANT	5.37	3	BJU
2.	UNKNOWN	5.70	2	J
3.	UNKNOWN PHENOL	11.07	2	J

CL 519-

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041814B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041814B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	1	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	2	J
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~A~~	BJ U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041814B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 8

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

CL 5-19-

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BLANK CONTAMINANT	5.33	6	BJU
2.	UNKNOWN	5.68	3	J
3.	BLANK CONTAMINANT	6.18	3	BJU
4.	METHYLMETHYLETHYLBENZENE	7.13	9	J
5.	UNKNOWN	8.33	4	J
6.	UNKNOWN	8.38	8	J
7.	UNKNOWN PHENOL	11.03	5	J
8.	UNKNOWN	19.17	9	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041500A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041500A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~2~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041500A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.50	3	J
2.	UNKNOWN	7.73	2	J
3.	UNKNOWN	10.37	3	J
4.	LABORATORY ARTIFACT	16.60	6	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041510A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041510A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~1~~	BJ U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041510A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 9

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.40	2	J
2.	UNKNOWN	8.05	3	J
3.	UNKNOWN	10.38	5	J
4.	UNKNOWN	14.68	2	J
5.	UNKNOWN HYDROCARBON	15.17	5	J
6.	UNKNOWN HYDROCARBON	15.63	7	J
7.	UNKNOWN HYDROCARBON	16.12	6	J
8.	UNKNOWN HYDROCARBON	16.67	5	J
9.	UNKNOWN	17.28	3	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041511A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041511A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~2~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041511A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	10.40	6	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ041512A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM.RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ041512A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~3~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GJ041512A02

Level: (low/med) LOW Date Received: 03/24/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/26/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 20

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 629-97-0	DOCOSANE	14.65	12	JN
2.	UNKNOWN HYDROCARBON	15.15	49	J
3.	UNKNOWN HYDROCARBON	15.62	43	J
4.	UNKNOWN HYDROCARBON	16.10	42	J
5.	UNKNOWN HYDROCARBON	16.65	32	J
6.	UNKNOWN HYDROCARBON	17.27	26	J
7.	UNKNOWN HYDROCARBON	18.00	17	J
8.	UNKNOWN	18.38	8	J
9.	UNKNOWN	18.88	28	J
10.	UNKNOWN SILOXANE	19.32	5	J
11.	UNKNOWN	20.52	97	J
12.	UNKNOWN	21.00	22	J
13.	UNKNOWN	21.45	6	J
14.	UNKNOWN	21.48	8	J
15.	UNKNOWN	23.88	120	J
16.	UNKNOWN	25.23	6	J
17.	UNKNOWN	25.33	7	J
18.	UNKNOWN	25.50	8	J
19.	UNKNOWN	25.55	10	J
20.	UNKNOWN	25.98	6	J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041815B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041815B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-Methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)Anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 ~~5~~	BJU
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

CL 5-18-93

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: _____ SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 1000 (g/mL) ML Lab File ID: GH041815B07

Level: (low/med) LOW Date Received: 03/25/93

% Moisture: _____ decanted: (Y/N) ___ Date Extracted: 03/29/93

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	BLANK CONTAMINANT	5.35	6	BJU
2.	BLANK CONTAMINANT	6.20	3	BJU

CL 5-19-

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

GC Column (1): DB-608 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	ETF19	78	140	84	84			0
02	ETF16MS	73	76	77	95			0
03	ETF16MSD	81	86	92	110			0
04	ETF20	75	260*	80	82			1
05	ETF21	75	260*	84	85			1
06	ETF22	72	160*	88	93			1
07	ETF16	75	87	88	100			0
08	ETF17	80	76	84	100			0
09	ETF18	71	65	40*	50*			2
10	ETF33	85	76	37*	49*			2
11	PBLK91	72	67	83	86			0
12	PBLK03	85	77	61	77			0
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

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

FORM II PEST-1 3/90

3E

WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix Spike - EPA Sample No.: ETF16

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC (Lindane)	0.500	0.00	0.37	74	56-123
Heptachlor	0.500	0.00	0.37	74	40-131
Aldrin	0.500	0.00	0.33	66	40-120
Dieldrin	1.000	0.00	0.75	75	52-126
Endrin	1.000	0.00	0.84	84	56-121
4,4'-DDT	1.000	0.00	0.83	83	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
gamma-BHC (Lindane)	0.500	0.38	76	3	15	56-123
Heptachlor	0.500	0.40	80	8	20	40-131
Aldrin	0.500	0.35	70	6	22	40-120
Dieldrin	1.000	0.82	82	9	18	52-126
Endrin	1.000	0.87	87	4	21	56-121
4,4'-DDT	1.000	0.91	91	9	27	38-127

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 6 outside limits
Spike Recovery: 0 out of 12 outside limits

COMMENTS:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK91

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Lab Sample ID: 541960 Lab File ID:

Matrix: (soil/water) WATER Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 03/25/93

Date Analyzed (1): 03/27/93 Date Analyzed (2): 03/27/93

Time Analyzed (1): 1858 Time Analyzed (2): 1858

Instrument ID (1): VARIAN05 Instrument ID (2): VARIAN04

GC Column (1): RTX-1701 ID: 0.53(mm) GC Column (2): DB-608 ID: 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ETF19	541500	03/27/93	03/27/93
02	ETF20	541510	03/27/93	03/27/93
03	ETF21	541511	03/27/93	03/27/93
04	ETF22	541512	03/27/93	03/27/93
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Comments:

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK03

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Lab Sample ID: 542844 Lab File ID:

Matrix:(soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N Date Extracted: 03/26/93

Date Analyzed (1): 03/30/93 Date Analyzed (2): 03/30/93

Time Analyzed (1): 1204 Time Analyzed (2): 1204

Instrument ID (1): VARIAN20 Instrument ID (2): VARIAN22

GC Column (1): RTX-1701 ID: 0.53(mm) GC Column (2): DB-608 ID 0.53(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	ETF16MS	541507	03/30/93	03/30/93
02	ETF16MSD	541508	04/09/93	04/09/93
03	ETF16	541812	03/30/93	03/30/93
04	ETF17	541813	03/30/93	03/30/93
05	ETF18	541814	03/30/93	03/30/93
06	ETF33	541815	03/30/93	03/30/93
07				
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Comments:

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK91

Lab Name: COMPUCHEM,RTP Contract: 68D00159

~~Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19~~

Matrix: (soil/water) WATER Lab Sample ID: 541960

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/25/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.0020	JP
309-00-2	Aldrin	0.0018	JP
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0031	JP
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK03

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 542844

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received:

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/26/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF16

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541812

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/25/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/26/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF17

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541813

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/25/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/26/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF18

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU ~~Case No.: 19635 SAS No.: SDG No.: ETF19~~

Matrix: (soil/water) WATER Lab Sample ID: 541814

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/25/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/26/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.0078	J
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF19

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541500

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/24/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/25/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.05 ~~0.0018~~	JPBU
309-00-2	Aldrin	0.05 ~~0.0017~~	JPBU
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.0024	JP
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0022	JP
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

CL 5/18-9

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF20

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541510

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/24/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/25/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.05 ~~0.0027~~	JPB U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.0015	JP
72-55-9	4,4'-DDE	0.0023	J
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

CC
5-18-

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF21

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541511

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/24/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/25/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.05 ~~0.0026~~	JPBU
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT 0.10	0.05 ~~0.0048~~	JPBU
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.0019	JP
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

CL 5-18-9

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF22

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541512

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/24/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/25/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/27/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND		CONCENTRATION	Q
319-84-6	alpha-BHC		0.050	U
319-85-7	beta-BHC		0.050	U
319-86-8	delta-BHC		0.050	U
58-89-9	gamma-BHC (Lindane)		0.050	U
76-44-8	Heptachlor		0.05 ~~0.0026~~	JBPU
309-00-2	Aldrin		0.05 ~~0.0014~~	JPBU
1024-57-3	Heptachlor epoxide		0.050	U
959-98-8	Endosulfan I		0.050	U
60-57-1	Dieldrin		0.10	U
72-55-9	4,4'-DDE		0.10	U
72-20-8	Endrin		0.10	U
33213-65-9	Endosulfan II		0.10	U
72-54-8	4,4'-DDD		0.10	U
1031-07-8	Endosulfan sulfate		0.10	U
50-29-3	4,4'-DDT	0.10	~~0.05~~ ~~0.0061~~	JBPU
72-43-5	Methoxychlor		0.50	U
53494-70-5	Endrin ketone		0.10	U
7421-93-4	Endrin aldehyde		0.10	U
5103-71-9	alpha-Chlordane		0.050	U
5103-74-2	gamma-Chlordane		0.050	U
8001-35-2	Toxaphene		5.0	U
12674-11-2	Aroclor-1016		1.0	U
11104-28-2	Aroclor-1221		2.0	U
11141-16-5	Aroclor-1232		1.0	U
53469-21-9	Aroclor-1242		1.0	U
12672-29-6	Aroclor-1248		1.0	U
11097-69-1	Aroclor-1254		1.0	U
11096-82-5	Aroclor-1260		1.0	U

CL 5-18-93

1D
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ETF33

Lab Name: COMPUCHEM,RTP Contract: 68D00159

Lab Code: COMPU Case No.: 19635 SAS No.: SDG No.: ETF19

Matrix: (soil/water) WATER Lab Sample ID: 541815

Sample wt/vol: 1000 (g/ml) ML Lab File ID:

% Moisture: decanted: (Y/N) Date Received: 03/25/93

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 03/26/93

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 03/30/93

Injection Volume: 2.0 (uL) Dilution Factor: 1

GPC Cleanup: (Y/N) N pH: Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Data Set No. (1) CERCLIS No. OH

Case No. 19635 Site Name Location: Treasure Island

Contractor or EPA Lab: Compuchem Data User: PRC

No. of Samples: 10 Date Samples or Data Received: 4-22-93

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

Are basic data forms in? YES ✓ NO ___
No. of samples claimed: 10 No. of samples received: 10

Received by: A. D. Harris Date: 4-22-93

Received by LSSS: Dorothy M. May Date: 4/23/93

Review started: 5/17/93 Reviewer Signature: M. Cecilia Luckett

Total time spent on review: 15 hrs. Date review completed: 5/19/93

Copied by: Robert Feyner Date: 5-24-93

Mailed to user by: AD Harris Date: 5-25-93

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

Data received by: Mildred Jackson Date: MAY 27 1993

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

Received by Data Mgmt. Coordinator for Files Date: ___