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95-02 6/5/12

First Semi-annual Assessment Monitoring Event

Sampling Date: July 10-13, 1995

Watauga County Landfill
NCDEHNR Permit No. 95-02

Prepared for:

Watauga County, North Carolina

Volume II of II Book 5 of 9

DAA JN: 6520-21

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SECTION IV

SW-846 METHOD 8270A SEMI-VOLATILES

SECTION 4.1

SW-846 REPORTING QUALIFIERS

NONE

SECTION 4.2

DAA SW-846 SEMI-VOLATILES DATA VALIDATION FORMS

**(INCLUDES SW-846 METHOD 8260 VALIDATION FORMS.
METHOD 8270A FORMS ARE LOCATED AFTER 8260 FORMS)**

METHOD 8260 VOLATILE DATA VALIDATION SUMMARY

GC/MS organic data review was performed on volatile organic parameters analyzed using USEPA SW-846 Method 8260. The parameter list included methylene chloride and vinyl chloride for confirmational analysis. To meet method quantitation limit requirements methylene chloride and vinyl chloride are analyzed using Method 8021. Method 8260 was performed by ETS Analytical Services of Roanoke, Virginia. ETS submitted results to Draper Aden Associates in a final Certificate of Analysis, including: Quality Assurance/Quality Control (QA/QC) documentation, instrument calibration data, internal standards results, raw chromatographic data printouts, and mass spectral results.

Evaluation of ETS's compliance with GC/MS Method 8260 and validation of the results encompassed review of the following items: sample holding times, sample preservation requirements, laboratory QA/QC performance checks, instrument calibration, blank analyses, surrogate spike recoveries, and matrix spike analyses results. Review of all transcriptions from raw data to summary sheets was performed. Specific representative calculations were also performed at random.

ETS listed either 5 μg/L, 10 μg/L, 25 μg/L, or 50 μg/L for all 8260 parameter level of quantitation (LOQ) values. These values are supported by the "March 1995 VOA MDL Study" presented after the narrative in the certificate of analysis and are further supported by the first point of the calibration curve which was 10 μg/L or 50 μg/L.

Samples were collected during the July 10-13, 1995 sampling event of the Watauga County Landfill from core monitoring wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12 and MW-17. Samples were received in good condition, with custody seals intact and on ice by ETS on July 13, 1995. Samples from MW-1, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, and MW-17 were representative of the first sample delivery group (SDG-1) and samples from MW-2, MW-4, MW-9, and MW-12 represented the second sample delivery group (SDG-2). Samples were divided into two SDGs to meet contractual requirements.

Overall, the certificate of analysis for Watauga County Landfill was very complete in its presentation and the data was of acceptable quality, however, revisions were requested from ETS on November 9 and December 1, 1995 to finalize the deliverables package. As well, revisions were required to accurately reflect concentrations of parameters originally reported as non-detect by the laboratory. Separate aliquots for 8260 volatiles and acrolein/acrylonitrile were submitted and analyzed for each of the samples, with the exception of an

acrolein/acrylonitrile sample for MW-7, due to insufficient water production from the monitoring well. Therefore, acrolein and acrylonitrile results for MW-7 are taken from the pH <2 aliquot analysis and required qualification as estimated. A separate 8260 analysis sample was necessary since the preservation requirement for both acrolein and acrylonitrile is pH 4-5 and all other volatile compounds require a pH < 2. Sample pH's for the acrylonitrile/acrolein aliquots were exceeded for the MW-8 and MW-11 samples resulting in qualification of the results for these two parameters in these two wells as estimated (J).

Two initial calibrations (ICAL) were analyzed with this sample batch. The ICALs were separated into two mixes due to the extensive parameter list in order to prevent chemical reactions. Both ICALS were analyzed on 7/14/95 and were designated 2VCAL (Mix 02) and 1VCAL (Mix 01). All samples were associated with both ICALs.

Both ICALs met SW-846 method criteria except for 1,1-dichloroethene %RSD=31.44. Draper Aden method performance criteria was exceeded for acetonitrile (%RSD = 30.67%) 1,1-dichloroethene (%RSD = 31.44%), acrolein (RRF=0.049) and isobutanol (%RSD = 35.03%). The only parameter results requiring qualification are 1,1-dichloroethene results greater than 100 ppb, which require qualification as estimated (J). This applies to the MW-2 sample only.

Six continuing calibrations (CCAL) were associated with this sample batch. All SW-846 method criteria and contractual requirements were met. Isobutanol %D=34.01 exceeded validation criteria requiring isobutanol results in MW-1, MW-3, MW-6, MW-7, MW-8, MW-11, MW-17 and MW-10 to be qualified as estimated (J).

All blank analysis criteria was met. Acetone contamination was present in all method blanks and both trip blanks (Trip Blank-1 and Trip Blank-2). Methylene chloride contamination was also present in all but one method blank and both trip blanks. Chloroform contamination was present in one method blank. Acetone and methylene chloride were also present in all groundwater sample as outlined in the Analytical Data Set Notes. Qualification of acetone and methylene chloride results was required as shown on the Analytical Data Set Notes.

No target parameters, other than laboratory contaminants acetone and methylene chloride, were detected in MW-1 and MW-4. Several target parameters were detected above and below the LOQs in the remaining 10 monitoring wells. Samples for MW-2, MW-6 and MW-10 were diluted 1:25, 1:5, and 1:5, respectively, due to concentrations of target parameters exceeding the upper linear calibration of 10-200 μg/L. Reanalysis of the diluted samples; MW-2DL, MW-6DL, and MW-10DL, was successfully completed. The sample LOQs were raised

by 25X in MW-2DL for 1,1,1-trichloroethane, by 5X in MW-6DL for cis-1,2-dichloroethene and by 5X in MW-10DL for 1,1,1-trichloroethane.All validated results can be found in the Analytical Data Set Notes, after the Method 8260 Volatile Data Review.

A performance evaluation (PE) sample was submitted as MW-1A to ETS for volatile analysis by method 8260. ETS analyzed the MW-1A sample on 7/18/95 with the SDG-1 samples. ETS's reported results were within performance acceptance limits associated with the quality control standards certified by third party laboratory, Environmental Resource Associates (ERA) of Arvada, CO. Correspondence and certified results from ERA are included at the end of the Method 8260 volatile data review and Analytical Data Set Notes for review.

Method 8260 Volatile Data Review

Wells: Core wells: MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-17

QC Samples: MW-1MS, MW-1MSD, MW-9MS, MW-9MSD, Trip Blank-1, Trip Blank-2, Method Blanks

Laboratory: ETS Analytical Services, Inc., Roanoke, Virginia

Does Laboratory parameter list correspond to parameter list requested by DAA?
See MDL Study table for parameter list. X Yes __No

"X" denotes items reviewed. A detailed evaluation follows each item reviewed.

X **A. QC HISTORY DOCUMENTATION CRITERIA:**

1. Instrument specific LOD for target parameters? X Yes __No
2. Instrument specific LOQ for target parameters? X Yes __No
3. Instrument Working Range for target parameters? X Yes __No
4. Instrument specific check sample data? X Yes __No

Comments: Instrument QC history documentation was provided. Parameter working ranges were defined through the MDL study presented after the case narrative and the levels of the calibration curve. The calibration curves were made from standards analyzed at five concentration levels from 10 to 200 μg/L for all of the parameters.

X **B. CHECK SAMPLES CRITERIA:**

1. QC check sample data was generated on GC/MS used for analyses? X Yes __No
2. QC check sample contains all target parameters outlined in RFP? X Yes __No
3. QC check samples analyzed in quadruplicate? X Yes __No

4. Reported average recovery (X) of target parameters from check samples? X Yes __No

5. Reported Standard deviation(s) for the recovery of target parameters quadruplicated? X Yes __No

Comments: All QC check sample criteria were met.

X C. **TECHNICAL HOLDING TIMES AND PRESERVATION REQUIREMENTS CRITERIA:**

- 14 day holding time
- Cool 4° C (± 2°C)
- Adjust pH <2 w/ HCL
- Acrylonitrile pH 4-5

Comments: Samples for SDG-1 (MW-1, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, and MW-17) were collected on July 10-11, 1995 and samples for SDG-2 (MW-2, MW-4, MW-9, and MW-12) were collected on July 12, 1995. SDG-1 samples were analyzed on July 18, 1995 and SDG-2 samples were analyzed on July 21, 1995. Samples for SDG-1 and SDG-2 were received at the laboratory at 2°C and 4°C respectively. All 8260 volatile sample pHs were recorded < 2 as required. Sample pHs for 8260 acrylonitrile/acrolein were exceeded for the MW-8 and MW-11 samples and required qualification as estimated. All remaining samples met requirements with the exception of MW-7. No acrolein/acrylonitrile sample was submitted to the laboratory for MW-7 due to insufficient water production from the monitoring well. Therefore, acrolein and acrylonitrile results for MW-7 are taken from the pH < 2 aliquot analysis and required qualification as estimated. All technical holding times, temperature, and preservation requirements were met with the exceptions noted above.

Separate aliquots for 8260 volatiles and acrolein/acrylonitrile were submitted for analysis for each of the samples. A separate 8260 analysis was necessary since the preservation requirement for acrolein/acrylonitrile is pH 4-5 and all other volatile compounds require a pH < 2.

X **D. GC/MS INSTRUMENT PERFORMANCE CHECK CRITERIA:**

- The analysis of the instrument performance check solution must be performed at the beginning of each 12 hour period during which standards or samples are analyzed.
- 50 ng Bromofluorobenzene (BFB)
- Ion abundance criteria

Comments: All GC/MS instrument performance check criteria were met.

X **E. INITIAL CALIBRATION CRITERIA:**

1. SW-846 Criteria:

- The initial calibration (ICAL) and any directly associated blanks and samples must be analyzed within 12 hours of the associated instrument performance (tune) check.
- Randomly check quantitation ions used and listed on data against primary quantitation ions required by method and RFP. Note any differences and request explanation from the analyzing laboratory.
- all target parameters
- 5 levels (dL to upper end)
- 8260A SPCC compound criteria >0.300 or 0.100 (relative response factor)
  - chloromethane (0.100)
  - 1,1-dichloroethane (0.100)
  - bromoform (>0.100)
  - 1,1,2,2,-tetrachloroethane (0.300)
  - chlorobenzene (0.300)
- 6 CCC <30% (%RSD)
  - 1,1-Dichloroethene
  - Chloroform
  - 1,2-Dichloropropane
  - Toluene
  - Ethylbenzene
  - Vinyl Chloride

2. DAA Method Performance Criteria:

All target analytes and system monitoring compounds (surrogates) must have RRF's $\geq$ 0.05 and %RSD's $\leq$ 30.0%

* Does ICAL meet this Criteria? Yes __ No X

\- If "No" list compounds which exceed criteria

1,1-dichloroethene (%RSD = 31.44%)
acetonitrile (%RSD = 30.67%)
isobutanol (%RSD = 35.03%)
acrolein RRF = 0.049

\- Calculation check RRF X and %RSD X

3. Contractual Requirements:

\- All target analytes and system monitoring compounds (surrogates) SMC (SURR) must have %RSD $\leq$30.0%

\- 3 compounds may fail to meet minimum RRF's or maximum %RSD as long as they have RRF's $\geq$0.010 and %RSD $\leq$ 40.0%

* Does ICAL meet this criteria? Yes X No__

\- If "No", explain

Comments: The following initial calibrations were associated with these sample batches:

ICAL	SW-846 Criteria	DAA Method Performance Criteria	Contractual Criteria
ICAL MIX 02 7/14/95 Associated Samples: All samples for 8260 volatiles including acrolein/acrylonitrile	All criteria met.	DAA method performance criteria was exceeded for the following compounds: acrolein RRF=0.049 acetonitrile (%RSD = 30.67%) isobutanol (%RSD = 35.03%) Qualification of results for these 3 compounds was not required.	Contractual criteria was met.
ICAL MIX 01 7/14/95 Associated Samples: All samples for 8260 volatiles including acrolein/acrylonitrile	All criteria met. 1,1-dichloroethene %RSD = 31.44, however, 4 pt. curve from 10-100 pp has a %RSD = 1.5.	DAA method performance criteria was exceeded for %RSD for the following compounds: 1,1-dichloroethene (%RSD = 31.44%) The calibration curve is linear from 10-100 ppb (%RSD = 1.5). All positive results greater than 100 ppb will be qualified as estimated. No further qualification of other parameters is deemed necessary.	Contractual criteria was met.

X **F. CONTINUING CALIBRATION CRITERIA:**

1. SW-846 Criteria

- A continuing calibration standard (CCAL) is analyzed at the beginning of each 12 hour analysis period following the analysis of the instrument performance (tune) check and prior to the analysis of the method blank and samples. The CCAL may be part of the ICAL or run independently on another 12 hour analysis period.
- (RRF) 5 SPCC compounds RRF >0.100 or 0.300
- 6 CCC ± 25% (%D)

2. DAA Method Performance Criteria:

All target analytes and system monitoring CMPDS (surrogates) must have RRF's $\geq$0.05 and %D must be within $\pm$ 25.0%.

* Does CCAL meet this criteria? Yes X No __

\- If "No", list compounds which exceed criteria.

None

\- Calculation check RRF X and %D X

3. Contractual Requirements:

\- All target analytes and SMC (SURR) must have %D $\pm$ 25.0%.

\- 3 CMPDS may fail to meet minimum RRF's or maximum %D as long as they have RRF's $\geq$ 0.010 and %D $\pm$40.0%.

* Does CCAL meet this criteria? Yes X No __

Comments: The following continuing calibrations were associated with these sample batches:

CCAL	SW-846 Criteria	DAA Method Performance Criteria	Contractual Criteria
1VSTD02 and 2VSTD02 7/18/95 (All parameters except acrolein and acrylonitrile). Associated Samples: Trip Blank-1, MW-1, MW-1MS, MW-1MSD, MW-3, MW-6, MW-7, MW-8, MW-11, MW-17, MW-10, MW-10DL (Note: DL = Diluted sample)	All criteria met.	All criteria met except VSTDO2 Isobutanol %D = 34.1. Isobutanol results in associated samples will be qualified as estimated (J).	All criteria met.
1VSTD03 and 2VSTD03 7/19/95 (Acrolein and acrylonitrile only) Associated Samples: Trip Blank-1 (AC/AC), MW-1(AC/AC), MW-1MS (AC/AC), MW-1MSD (AC/AC), MW-3 (AC/AC), MW-6 (AC/AC), MW-8 (AC/AC), MW-10 (AC/AC), MW-11 (AC/AC), MW-17 (AC/AC) (Note: AC/AC = acrolein/acrylonitrile)	All criteria met.	All criteria met except Acrolein RRF = 0.045. Evaluation of initial and continuing calibration results indicates that qualification of sample results is not required since the laboratory demonstrated their ability to achieve the reported LOQ and %RSD/%D results meet criteria.	All criteria met.
1VSTD05 and 2VSTD05 7/21/95 (All parameters) Associated Samples: Trip Blank-2, Trip Blank-2 (AC/AC), MW-6DL, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12, MW-4 (AC/AC), MW-9 (AC/AC), MW-9MS (AC/AC), MW-9MSD (AC/AC), MW-12 (AC/AC), MW-2DL, MW-2, MW-2 AC/AC) (Note: DL = Diluted sample)	All criteria met.	All criteria met except acrolein RRF = 0.045. No qualification required as discussed earlier.	All criteria met.

X **G. BLANKS CRITERIA:**

- A Method blank analysis must be performed after the calibration standards, prior to sample analysis and once for every 12 hour period beginning with the injection of BFB.
- Interference free
- Trip Blank, Equipment Blank, Method Blank

Comments: The following table itemizes blanks associated with this sample batch. Contaminants were found in the blanks as noted:

Blank	Associated Samples	Contaminants
VBLK02 File: VBLK02.D 7/18/95 Method Blank	Trip Blank-1, MW-1, MW-1MS, MW-1MSD, MW-3, MW-6, MW-7, MW-8, MW-11, MW-17, MW-10, MW-10DL (Note: DL = diluted sample)	Acetone (24 µg/L J) LOQ = 25 µg/L Chloroform (3.7 µg/L J) LOQ = 5 µg/L
VBLK03 File: VBLK03.D 7/19/95 Method Blank	Trip Blank-1 (AC/AC), MW-1 (AC/AC), MW-1MS (AC/AC), MW-1MSD (AC/AC), MW-3 (AC/AC), MW-6 (AC/AC), MW-8 (AC/AC), MW-10 (AC/AC), MW-11 (AC/AC), MW-17 (AC/AC)	Acetone (6.5 µg/L J) LOQ = 25 µg/L Methylene chloride (15 µg/L) LOQ = 5 µg/L
VBLK05 File: VBLK05.D 7/21/95 Method Blank	Trip Blank-2, Trip Blank-2 (AC/AC), MW-6DL, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12, MW-4 (AC/AC), MW-9 (AC/AC), MW-9MS (AC/AC), MW-9MSD (AC/AC), MW-12 (AC/AC), MW-2DL, MW-2, MW-2 (AC/AC) (Note: DL = diluted sample)	Acetone (7.3 µg/L) LOQ = 25 µg/L Methylene chloride (7 µg/L) LOQ = 5 µg/L
Trip Blank-1 File: 180859V.D 7/18/95	All 8260 volatile samples excluding acrolein/acrylonitrile for MW-1, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, and MW-17.	Acetone (12µg/L J) LOQ=25 µg/L. Methylene chloride (1.5 µg/L J) LOQ = 5 µg/L Chloroform (3.6 µg/L J) LOQ = 5 µg/L
Trip Blank-1 File 180859A.D 7/19/95	Acrolein/acrylonitrile for MW-1, MW-3, MW-6, MW-8, MW-10, MW-11, and MW-17.	No target parameters detected.
Trip Blank-2 File: 180884V.D 7/21/95	All 8260 volatile samples excluding acrolein/acrylonitrile for MW-2, MW-4, MW-9 and MW-12.	Acetone (15 µg/L J) LOQ = 25 µg/L Methylene chloride (2.5 µg/L) LOQ = 5 µg/L Chloroform (3.7 µg/L J) LOQ = 5 µg/L.
Trip Blank-2 File: 180884A.D 7/21/95	Acrolein/acrylonitrile for samples MW-2, MW-4, MW-9 and MW-12.	No target parameters detected.

X **H. SURROGATE SPIKES CRITERIA:**

1. SW-846 Criteria:

- Dibromofluoromethane (86-118)
- 4-Bromofluorobenzene (86-115)
- Toluene-d_8 (88-110)

2. Contractual Requirements:

Corrective action is required if any surrogate in the volatile fraction is out of spec. Flagging of the data as estimated is not acceptable until corrective action is attempted.

- Calculation check of % Recovery

Comments: Surrogate recovery criteria were met.

X **I. MATRIX SPIKE, MATRIX SPIKE DUPLICATES CRITERIA:**
(MS/MSD Requirements-CLP Guidelines)

Compound	%R Water	RPD Water
1,1-Dichloroethene	61-145	14
Trichloroethene	71-120	14
Benzene	76-127	11
Toluene	76-125	13
Chlorobenzene	75-130	13
Acrylonitrile		

- Calculation check % Recovery X and RPD X

Comments: MS and MSD analyses were conducted on samples collected from MW-1 and MW-9. All percent recoveries (%R) and relative percent differences (%RPD) requirements were met. No evidence of matrix interference was exhibited in the MS and MSD samples.

X **J. INTERNAL STANDARDS CRITERIA:**

- Pentafluorobenzene
- 1,4-Difluorobenzene
- Chlorobenzene-d_5
- 1,4-Dichlorobenzene-d_4

Internal standard area - 50% to +100% of last CC
Internal standard retention time ± 30 sec of last CC

- Were these internal standards used?
- Were the QC windows ($^{-}$50% to $^{+}$100%) calculated properly?

Comments: ETS used pentafluorobenzene, 1,4-difluorobenzene, chlorobenzene-d_5, and 1,4-dichlorobenzene-d_4, as recommended by the method. Internal standard area and retention time criteria were met.

X **K. TARGET PARAMETER IDENTIFICATION**

- Check that the RRT of the reported parameter is within ± 0.06 RRT units of the standard RRT.
- Check the sample parameter spectra against the laboratory standard spectra to see that it meets the following criteria:
  - All ions present in the standard spectrum at a relative intensity >10% must be present in the sample spectrum.
  - The relative intensities of the ions must agree ± 20% between the standard and sample spectra.
  - Consider and account for ions present at >10% in the sample mass spectrum and not in the standard spectrum.

1. Are all reported parameters confirmable?
2. Check that all parameter concentrations recorded on the raw sample quantitation reports were accurately transferred to the sample summary sheets.

Comments: All RRTs of the reported parameters were within 0.06 RRT units of the standard RRT. Reported parameters were confirmable through review of the RRTs and mass spectra/chromatograms. All results were transferred correctly from quantitation reports to Form I's, with the exception of the concentration of 1,1,1-trichloroethane being reported as 1300 µg/L on the Form I for the MW-2 sample (page 193). The actual concentration reported on the diluted analysis (MW-2 DL) was 1570 µg/L. Revision 1 was submitted to correct the error.

The samples for MW-2, MW-6, and MW-10 were diluted by factors of 1:25, 1:5, and 1:5, respectively due to concentrations of target parameters exceeding the upper linear concentration range of the calibration curve. The sample identification for the diluted analyses were designated by the laboratory as MW-2DL, MW-6DL, and MW-10DL.

X **L. LIBRARY SEARCHES**

Comments: Library searches were not requested with this data set.

X **M. ADDITIONAL COMMENTS**

Two sets of revisions was requested on 11/9/95 and 12/1/95.

Draper Aden Associates conducted a data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data evaluation was conducted using SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd Edition - Final Update I and II/IIA) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, February 1994). Random representative data points were selected for calculation verification. Validation of this data set is not considered to be a comprehensive evaluation.

Validated by: _____ Date: 1/10/96

Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	1,1-dichloroethene	MW-2	169.98	170J	Sample result qualified as estimated due to exceeding %RSD criteria during initial calibration. Linear calibration range = 10ppb - 100ppb.
8260	1,1-dichloroethene	MW-3	3.67J	3.7J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1-dichloroethene	MW-6	1.28J	1.3J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1-dichloroethene	MW-8	4.10J	4.1J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1-dichloroethene	MW-10	87.74	88	No action taken.
8260	1,1-dichloroethene	MW-12	3.60J	3.6J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1-dichloroethene	MW-17	1.64J	1.6J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	Isobutanol	MW-1, MW-3, MW-6, MW-7, MW-8, MW-11, MW-17, and MW10	U	UJ	CCAL %D > 25%, therefore, associated sample results are qualified as estimated (J).

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	acetone	MW-1	5.70J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-1	2.27J	5U	Sample result is below the LOQ of 5 µg/L. Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	All remaining parameters	MW-1	U	U	No parameters detected above the LOQs.
8260	acetone	MW-2	5.76J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-2	4.61J	5U	Sample result is below LOQ of 5 µg/L and is also less than 10X the concentration of methylene chloride detected in the associated blank; therefore, qualified as 5U.
8260	1,1-dichloroethane	MW-2	93.83	94	No action taken. LOQ = 5 µg/L.
8260	1,1,1-trichloroethane	MW-2	1572.25	1600	No action taken. Sample was diluted 1:25 due to the elevated concentration of the target parameter in the sample. Sample LOQ was raised from 5 µg/L to 125 µg/L. The result was quantified from the diluted analysis of the MW-2DL sample. (DL = diluted sample).

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	tetrachloroethene	MW-2	9.93	9.9	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-2	U	U	No parameters detected above the LOQs.
8260	acetone	MW-3	6.32J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	1,1-dichloroethane	MW-3	162.60	160	No action taken. LOQ = 5 µg/L.
8260	methylene chloride	MW-3	4.46J	5U	Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	dichlorodifluoromethane	MW-3	7.18	7.2	No action taken. LOQ = 5 µg/L.
8260	vinyl chloride	MW-3	3.05J	3.1J	Parameter positively identified below LOQ of 5 ug/L. Concentration estimated.
8260	chloroethane	MW-3	8.69	8.7	No action taken. LOQ = 5 µg/L.
8260	bromomethane	MW-3	2.38J	2.4J	Parameter positively identified below LOQ of 5 ug/L. Concentration estimated.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	trichlorofluoromethane	MW-3	1.13J	1.13J	Parameter positively identified below LOQ of 5 ug/L. Concentration identified.
8260	cis-1,2-dichloroethene	MW-3	50.39	50	No action taken. LOQ = 5 µg/L.
8260	1,1,1-trichloroethane	MW-3	21.17	21	No action taken. LOQ = 5 µg/L.
8260	benzene	MW-3	2.56J	2.6J	Parameter positively identified below LOQ of 5 ug/L. Concentration identified.
8260	1,2-dichloroethane	MW-3	1.84J	1.8J	Parameter positively identified below LOQ of 5 ug/L. Concentration identified.
8260	trichloroethene	MW-3	15.66	16	No action taken. LOQ = 5 µg/L.
8260	1,2-dichloropropane	MW-3	1.04J	1.0J	Parameter positively identified below LOQ of 5 ug/L. Concentration identified.
8260	tetrachloroethene	MW-3	37.03	37	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-3	U	U	No parameters detected above the LOQs.
8260	acetone	MW-4	6.43J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-4	3.14J	5U	Sample result is below LOQ of 5 µg/L and is also less than 10X the concentration of methylene chloride detected in the associated blank; therefore, qualified as 5U.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	All remaining parameters	MW-4	U	U	No parameters detected above the LOQs.
8260	acetone	MW-6	5.12J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	1,1-dichloroethane	MW-6	132.94	130	No action taken. LOQ = 5 µg/L.
8260	methylene chloride	MW-6	4.37J	5U	Sample result is below the LOQ of 5 µg/L, and also less than 10X the concentration detected in the associated blank.
8260	dichlorodifluoromethane	MW-6	2.19J	2.2J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	vinyl chloride	MW-6	22.51	23	No action taken. LOQ = 5 µg/L.
8260	chloroethane	MW-6	16.49	16	No action taken. LOQ = 5 µg/L.
8260	trans-1,2-dichloroethene	MW-6	5.68	5.7	No action taken. LOQ = 5 µg/L.
8260	cis-1,2-dichloroethene	MW-6	432.15	430	No action taken. Sample was diluted 1:5 due to the elevated concentration of the target parameter in the sample. Sample LOQ was raised from 5 µg/L to 25 µg/L. The result was quantified from the diluted analysis of the MW-6 DL sample. (DL = diluted sample).
8260	benzene	MW-6	12.68	13	No action taken. LOQ = 5 µg/L.
8260	trichloroethene	MW-6	47.34	47	No action taken. LOQ = 5 µg/L.
8260	1,2-dichloropropane	MW-6	1.01J	1.0J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	tetrachloroethene	MW-6	14.10	14	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-6	U	U	No parameters detected above the LOQ.
8260	acetone	MW-7	33.20	33U	Sample result is above the LOQ of 25 µg/L, but is below 10X the concentration of acetone detected in the associated blank; therefore, qualified as 33U.
8260	1,1-dichloroethane	MW-7	6.79	6.8	No action taken. LOQ = 5 µg/L.
8260	methylene chloride	MW-7	2.75J	5U	Sample result is below the LOQ of 5 µg/L; and also less than 10X the concentration detected in the associated blank.
8260	chloroethane	MW-7	22.26	22	No action taken. LOQ = 5 µg/L.
8260	trans-1,2-dichloroethene	MW-7	1.57J	1.6J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	cis-1,2-dichloroethene	MW-7	7.94	7.9	No action taken. LOQ = 5 µg/L.
8260	2-butanone	MW-7	14.74	15	No action taken. LOQ = 10 µg/L.
8260	benzene	MW-7	2.67J	2.7J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	trichloroethene	MW-7	1.17J	1.2J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,2-dichloropropane	MW-7	1.64J	1.6J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	All remaining parameters	MW-7	U	U	No parameters detected above the LOQs.
8260	acrylonitrile	MW-7	U	UJ	Sample was not provided to lab due to insufficient water in well. Results were quantified from the pH <2 aliquot and are therefore estimated (J).
8260	acrolein	MW-7	U	UJ	Sample was not provided to lab due to insufficient water in well. Results were quantified from the pH <2 aliquot and are therefore estimated (J).
8260	acetone	MW-8	7.79J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-8	4.60J	5U	Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	dichlorodifluoromethane	MW-8	6.74	6.7	No action taken. LOQ = 5 µg/L.
8260	vinyl chloride	MW-8	7.22	7.2	No action taken. LOQ = 5 µg/L.
8260	chloroethane	MW-8	9.25	9.3	No action taken. LOQ = 5 µg/L.
8260	trans-1,2-dichloroethene	MW-8	1.35J	1.4J	Parameter positively identified below the LOQ of 5 ug/L. concentration estimated.
8260	cis-1,2-dichloroethene	MW-8	88.57	89	No action taken. LOQ = 5 µg/L.
8260	1,1-dichloroethane	MW-8	70.64	71	No action taken. LOQ = 5 µg/L.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	2-butanone	MW-8	4.88J	4.9J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1,1-trichloroethane	MW-8	4.91J	4.9J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	benzene	MW-8	5.50	5.5	No action taken. LOQ = 5 µg/L.
8260	trichloroethene	MW-8	14.57	15	No action taken. LOQ = 5 µg/L.
8260	tetrachloroethene	MW-8	37.78	38	No action taken. LOQ = 5 µg/L.
8260	1,4-dichlorobenzene	MW-8	1.07J	1.1J	Sample result is below LOQ of 5 µg/L. No further action is required.
8260	acrylonitrile	MW-8	U	UJ	Result estimated due to exceeding required pH range.
8260	acrolein	MW-8	U	UJ	Result estimated due to exceeding required pH range.
8260	All remaining parameters	MW-8	U	U	No parameters detected above the LOQs.
8260	acetone	MW-9	6.51J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-9	160	160	No action taken. LOQ = 5 µg/L.
8260	dichlorodifluoromethane	MW-9	2.78J	2.8J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	chloroethane	MW-9	20.86	21	No action taken. LOQ = 5 µg/L.
8260	cis-1,2-dichloroethene	MW-9	6.21	6.2	No action taken. LOQ = 5 µg/L.
8260	1,1-dichloroethane	MW-9	39.68	40	No action taken. LOQ = 5 µg/L.
8260	1,1,1-trichloroethane	MW-9	9.83	9.8	No action taken. LOQ = 5 µg/L.
8260	benzene	MW-9	3.75J	3.8J	Parameter positively identified below the LOQ 5 ug/L. Concentration estimated.
8260	trichloroethene	MW-9	5.96	6	No action taken. LOQ = 5 µg/L.
8260	tetrachloroethene	MW-9	3.62J	3.6J	Parameter positively identified below the LOQ 5 ug/L. Concentration estimated.
8260	o-xylene	MW-9	3.03J	3.0J	Parameter positively identified below the LOQ 5 ug/L. Concentration estimated.
8260	All remaining parameters	MW-9	U	U	No parameters detected above the LOQs.
8260	acetone	MW-10	20.82J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25 U.
8260	methylene chloride	MW-10	2.18J	5U	Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	1,1-dichloroethane	MW-10	54.86	55	No action taken. LOQ = 5 µg/L.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	1,1,1-trichloroethane	MW-10	744.45	740	No action taken. Sample was diluted 1:5 due to elevated concentration of the target parameter in the sample. Sample LOQ was raised from 5 µg/L to 25 µg/L. The result was quantified from the diluted analysis of the MW-10DL sample. (DL = diluted sample).
8260	tetrachloroethene	MW-10	5.69	5.7	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-10	U	U	No parameters detected above the LOQs.
8260	acetone	MW-11	15.64J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	methylene chloride	MW-11	3.54J	5U	Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	dichlorodifluoromethane	MW-11	1.69J	1.7J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	cis-1,2-dichloroethene	MW-11	7.57	7.6	No action taken. LOQ = 5 µg/L.
8260	1,1-dichloroethane	MW-11	25.98	26	No action taken. LOQ = 5 µg/L.
8260	2-butanone	MW-11	3.11J	3.1J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	1,1,1-trichloroethane	MW-11	4.81J	4.8J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	trichloroethene	MW-11	3.05J	3.1J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	tetrachloroethene	MW-11	8.14	8.1	No action taken. LOQ = 5 µg/L.
8260	acrylonitrile	MW-11	U	UJ	Result estimated due to exceeding required pH range.
8260	acrolein	MW-11	U	UJ	Result estimated due to exceeding required pH range.
8260	All remaining parameters	MW-11	U	U	No parameters detected above the LOQs.
8260	acetone	MW-12	7.76J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	1,1-dichloroethane	MW-12	119.04	120	No action taken. LOQ = 5 µg/L.
8260	methylene chloride	MW-12	5.85	5.9U	Sample result is above the LOQ of 5 µg/L, but is less than 10X the concentration of methylene chloride detected in the associated method blank; therefore, qualified as 5.9U.
8260	dichlorodifluoromethane	MW-12	3.96J	4.0J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	chloroethane	MW-12	6.42	6.4	No action taken. LOQ = 5 µg/L.
8260	cis-1,2-dichloroethene	MW-12	42.09	42	No action taken. LOQ = 5 µg/L.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8260	1,1,1-trichloroethane	MW-12	16.23	16	No action taken. LOQ = 5 µg/L.
8260	trichloroethene	MW-12	13.35	13	No action taken. LOQ = 5 µg/L.
8260	tetrachloroethene	MW-12	31.49	31	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-12	U	U	No parameters detected above the LOQs.
8260	acetone	MW-17	9.47J	25U	Sample result is below LOQ of 25 µg/L and is also less than 10X the concentration of acetone detected in the associated blank; therefore, qualified as 25U.
8260	1,1-dichloroethane	MW-17	127.52	130	No action taken. LOQ = 5 µg/L.
8260	methylene chloride	MW-17	3.10J	5U	Sample result is below LOQ of 5 µg/L and less than 10X the concentration detected in the associated blank.
8260	dichlorodifluoromethane	MW-17	4.17J	4.2J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	chloroethane	MW-17	4.90J	4.9J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	cis-1,2-dichloroethene	MW-17	62.56	63	No action taken. LOQ = 5 µg/L.
8260	1,1,1-trichloroethane	MW-17	7.00	7	No action taken. LOQ = 5 µg/L.
8260	1,2-dichloroethane	MW-17	1.80J	1.8J	Parameter positively identified below the LOQ of 5 ug/L. Concentration estimated.
8260	trichloroethene	MW-17	16.74	17	No action taken. LOQ = 5 µg/L.
8260	tetrachloroethene	MW-17	30.27	30	No action taken. LOQ = 5 µg/L.
8260	All remaining parameters	MW-17	U	U	No parameters detected above the LOQs.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

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METHOD 8270A SEMI-VOLATILE DATA VALIDATION SUMMARY

GC/MS organic data review was performed on semi-volatile organic parameters analyzed using USEPA SW-846 Method 8270A. Method 8270A was performed by ETS Analytical Services of Roanoke, Virginia. ETS submitted results to Draper Aden Associates in a final Certificate of Analysis, including: Quality Assurance/Quality Control (QA/QC) documentation, instrument calibration data, internal standards results, raw chromatographic data printouts, and mass spectral results.

Evaluation of ETS's compliance with GC/MS Method 8270A and validation of the results encompassed review of the following items: sample holding times, sample preservation requirements, laboratory QA/QC performance checks, instrument calibration, blank analyses, surrogate spike recoveries, and matrix spike analyses results. Review of all transcriptions from raw sample data to sample summary sheets was performed. Specific representative calculations were also performed at random.

ETS listed either 10 μg/L or 20 μg/L for all 8270A parameter level of quantitation (LOQ) values except 1,4-benzenediamine listed at 100 μg/L and bis(2-ethylhexyl) phthalate at 6 ug/L. These values are supported by the "SVOA Precision and Accuracy Study March 1995" presented after the narrative in the certificate of analysis and are further supported by the first point of the calibration curve which is either 20 μg/ml or 50 μg/ml.

Samples were collected during the July 10-13, 1995 sampling event of the Watauga County Landfill from core monitoring wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, and MW-17. Samples were received in good condition, with custody seals intact and on ice by ETS on July 13, 1995. Samples from MW-1, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, and MW-17 were representative of the first sample delivery group (SDG-1) and samples from MW-2, MW-4, MW-9 and MW-12 represented the second sample delivery group (SDG-2). Samples were divided into two SDGs to meet contractual requirements.

Overall, the certificate of analysis for Watauga County Landfill was complete in its presentation and the data was of acceptable quality except for acid fraction results in MW-17 which were qualified as unusable (R) due to low surrogate recoveries which were confirmed as resulting from sample matrix interference. Revision 1 was submitted by ETS on September 25, 1995 to revise all Form I's and report a LOQ of 6 ug/L for the target parameter bis(2-ethylhexyl)phthalate. A second revision was requested by Draper Aden Associates to reflect the revised LOQ of bis(2-ethylhexyl)phthalate on page 11 of the

March 1995 SV MDL study and to review and revise the LOQs of all target parameters for the MW-7 sample on pages 105-108. Due to limited sample volume, an initial volume of 200 ml, instead of 1000 ml, was extracted and concentrated to 1ml, thus the LOQs for all parameters in MW-7 should have been elevated by 5X.

All technical holding times for extraction and analysis were met for the original analyses. Temperature and preservation criteria were also met. Samples were collected on July 10-11, 1995 (SDG-1) and on July 12, 1995 (SDG-2) and were extracted on 7/14-15/95 (SDG-1) and 7/17/95 (SDG-2). Reextraction of the MW-17 sample (MW-17RE) was conducted on 7/20/95 due to low recovery of the acid surrogates. Reextraction of the MW-2 and MW-4 samples (MW-2RE and MW-4RE) was conducted on 7/20/95 due to bis(2 ethylhexyl)phthalate contamination. The MW-9 sample (MW-9RE) was also reextracted for low recoveries of the acid surrogates 2-fluorophenol and 2-chlorophenol-d_4. Holding times for all reextractions were exceeded (MW-17RE, MW-2RE, MW-4RE, MW-9RE). Reextraction analysis results for the acid surrogate recoveries in the MW-17RE and MW-9RE samples duplicated the original analyses results, thus indicating the presence of matrix interference in those samples. Matrix interference, however, was not evident in the MW-9MS and MW-9MSD analyses. A review of extraction logs and data did not reveal an explanation for this. The MW-12 sample was reanalyzed (MW-12R) for exceeding %D criteria for di-n-octyl phthalate. Di-n-octyl phthalate results for MW-12 are from the reanalysis.

Seven initial calibrations (ICAL) were associated with these sample batches. Seven calibrations were necessary due to the extensive parameter list which were separated into seven mixes to prevent chemical reactions. O,O,O-triethylphosphorothioate exceeded DAA method performance criteria, however, no qualification of the data was deemed necessary. All other SW-846, DAA method performance and contractual requirements were met.

Sixteen continuing calibrations (CCAL) were associated with these sample batches. Parameters were separated into several mixes to prevent reactions. Several target parameters exceeded DAA method performance criteria for %D for the respective associated samples and required qualification as estimated (UJ) for these parameters. (See analytical data set notes).

All surrogate criteria was met for all samples except MW-9 and MW-17. All three acid surrogate recoveries for the MW-17 sample were below 10% as listed on the form II, page 62. Two acid surrogate recoveries for sample MW-9 were below QC limits but greater than 10%. Reextraction and reanalysis of these samples revealed very consistent results with the original analyses. Matrix interference was judged as the cause of the low recoveries of the acid surrogates. Holding times for the reextracted samples for MW-17 and MW-9 were exceeded.

Due to acid surrogate recoveries less than 10%, in MW-17 the acid fraction results of the analysis are qualified as unusable (R). Due to low acid surrogate recoveries, although greater than 10%, in MW-9 the acid fraction results of the analysis are qualified as estimated. No matrix interference problems were found in the MW-9MS and MW-9MSD samples. Review of extraction and analytical logs do not reveal a possible explanation for this inconsistency. The following parameters are associated with the acid fraction and are affected by this validation: benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 2-methylphenol, 3-methylphenol, 4-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol.

All blank analysis criteria were met. The target parameter bis(2-ethylhexyl)phthalate was detected above the LOQ in blank SBLK08 and was also detected in associated samples MW-2 and MW-4. The MW-2 and MW-4 samples were reextracted and reanalyzed, but revealed the absence of bis(2-ethylhexyl) phthalate. The presence of bis(2-ethylhexyl)phthalate was judged to be a random laboratory contaminant in the original analyses, since it was not detected in subsequent reanalyses. Bis(2-ethyl hexyl) phthalate results for MW-2 and MW-4 are from the reextraction and reanalyses runs and were estimated due to exceeding the 7 day holding time.

All instrument tuning, surrogate recoveries, internal standard area, internal standard retention time, and matrix spike/matrix spike duplicate requirements were met for all analyses.

No target parameters were detected above the respective laboratory LOQs in any of the twelve core wells: MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, and MW-17. Results for all parameters were validated as not detected above the LOQ ("U"), with the exceptions noted exceeding %D criteria, resulting in validation as not detected above the LOQ but estimated ("UJ") in numerous samples and exceeding surrogate recovery criteria resulting in validation of the acid fraction target parameters as unusable (R) in MW-17, and estimated (J) in MW-9.

Method 8270A Semi-Volatile Data Review

Wells: Core Wells: MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-17

QC Samples: MW-1MS, MW-1MSD, MW-9MS, MW-9MSD, Trip Blank-1, Trip Blank-2, Laboratory Method Blanks

Laboratory: ETS Analytical Services, Inc., Roanoke, VA

Does Laboratory parameter list correspond to parameter list requested by DAA?

See table after case narrative for parameter list. X Yes __No

"X" denotes items reviewed. A detailed evaluation follows each item reviewed.

X **A. INSTRUMENT QC HISTORY DOCUMENTATION CRITERIA:**

1. Instrument specific LOD for target analytes? X Yes __No
2. Instrument specific LOQ for target analytes? X Yes __No
3. Instrument specific Check Sample Data? X Yes __No
4. Instrument Working Range for target analytes? X Yes __No

Comments: Instrument QC history documented. Parameter working ranges are defined through the MDL study presented after the narrative and the levels of the calibration curve. The calibration curves were made from six levels from 20-50 ug/ml to 160 ug/ml - 200 mg/ml for all target parameters.

X **B. CHECK SAMPLES CRITERIA:**

1. QC check sample data was generated on GC/MS used for analyses? X Yes __No
2. QC check sample contains all target analytes outlined in RFP? X Yes __No
3. QC check samples analyzed in quadruplicate? X Yes __No

4. Reported average recovery (X) of target analytes from check samples? X Yes __No

5. Reported Standard deviation(s) for the recovery of target analytes quadruplicated? X Yes __No

Comments: QC check sample criteria met.

X **C. TECHNICAL HOLDING TIMES AND PRESERVATION REQUIREMENTS CRITERIA:**

- 7 days from collection for extraction (water)
- (14 days for soil)
- 40 days from extraction for analysis (water and soil)
- Cool 4° C (±2°C)

Comments: All technical holding times for extraction and analysis were met for the original analyses. Temperature and preservation criteria were met. Samples were collected on July 10-11, 1995 (SDG-1) and on July 12, 1995 (SDG-2) and were extracted on 7/14-15/95 (SDG-1) and 7/17/95 (SDG-2).

Reextraction of the MW-17 sample (SDG-1) was conducted on 7/20/95 due to low recovery of the acid surrogates. Reextraction of the MW-2 and MW-4 samples (SDG-2) was conducted on 7/20/95 due to suspected bis (2-ethylhexyl) phthalate contamination. The MW-9 (SDG-2) sample was also reextracted for low recoveries for the acid surrogates, 2-fluorophenol and 2-chlorophenol-d_4. Holding times for all reextractions were exceeded (MW-17, MW-2, MW-4, and MW-9).

X **D. GC/MS INSTRUMENT PERFORMANCE CHECK CRITERIA:**

The analysis of the instrument performance check solution must be performed at the beginning of each 12 hour period during which standards or samples are analyzed.

- 50 ng DFTPP
- Ion abundance criteria

Comments: All samples were analyzed within 12 hours of meeting ion abundance criteria.

X **E. INITIAL CALIBRATION CRITERIA:**

1. SW-846 Criteria

- The initial calibration (ICAL) and any directly associated blanks and samples must be analyzed within 12 hours of the associated instrument performance (tune) check.
- Randomly check quantitation ions used and listed on data against primary quantitation ions required by method and RFP. Note any differences and request explanation from the analyzing laboratory.
- all target analytes
- 5 levels (dL to upper end)
- calibrate initially
- 4 SPCC compounds >0.050 (relative response factor-average)
  - N-nitroso-di-n-propylamine
  - Hexachlorocyclopentadiene
  - 2,4-Dinitrophenol
  - 4-nitrophenol
- 13 CCC <30% (%RSD)

B/N Fraction	Acid Fraction
• Acenaphthene	• 4-Chloro-3-methylphenol
• 1,4-Dichlorobenzene	• 2,4-Dichlorophenol
• Hexachlorobutadiene	• 2-nitrophenol

- N-Nitrosodiphenylamine
- Di-n-octyl phthalate
- Fluoranthene
- Benzo(a)pyrene
- Phenol
- Pentachlorophenol
- 2,4,6-Trichlorophenol

2. DAA Method Performance Criteria:

- All target analytes and system monitoring compounds (surrogates) must have RRF's $\geq$ 0.05 and %RSD's $\leq$ 30.0%
* Does ICAL meet this Criteria? Yes __ No X
- If "No" list compounds which exceed criteria

See table in comments.

- Calculation check RRF X and % RSD X

3. Contractual Requirements:

- All target analytes and system monitoring compounds (surrogates) SMC (SURR) must have %RSD $\leq$30.0%

- 5 compounds may fail to meet minimum RRF's or maximum %RSD as long as they have RRF's $\geq$0.010 and %RSD $\leq$ 40.0%
* Does ICAL meet this criteria? Yes __ No X
- If "No", explain

Comments: The following initial calibrations were associated with the original sample analyses: No data qualification is required.

ICAL	SW-846 Criteria	DAA Method Performance Criteria	Contractual Criteria
1SCAL 7/10/95	All criteria met.	All criteria met.	All criteria met.
7SCAL 7/11/95	All criteria met.	All criteria met.	All criteria met.
8SCAL 7/11/95	All criteria met.	All criteria met.	All criteria met.
9SCAL 7/11/95	All criteria met.	o,o,o-triethylphosphorothioate exceeds method performance criteria for RRF (avg. RRF=0.030). Data qualification was not required due to %RSD requirements being met, and lab has demonstrated can meet the LOQ of 10 ug/ml.	All criteria met.
Kepone SCAL 7/11-12/95	All criteria met.	All criteria met.	All criteria met.
3SCAL 7/18/95	All criteria met.	All criteria met.	All criteria met.

The following initial calibration is associated with the reextraction of MW-2, MW-4, MW-9, and MW-17 samples and with the reanalysis of the MW-12 sample.

ICAL	SW-846 Requirements	DAA Method Performance Criteria	Contractual Requirements
1SCAL 7/29/95	All criteria met.	3-nitroaniline exceeded %RSD method performance requirements (%RSD=67.27%). 3-nitroaniline results were not qualified from the reanalysis reextraction 1SCAL, but were taken from the original 1SCAL on 7/10/95.	3-nitroaniline exceeds %RSD contractual requirements (%RSD-67.27%). 3-nitroaniline results were not associated with the reanalysis reextraction 1SCAL, but were taken from the original 1SCAL on 7/10/95.

X **F. CONTINUING CALIBRATION CRITERIA:**

1. SW-846 Criteria:

- A continuing calibration standard (CCAL) is analyzed at the beginning of each 12 hour analysis period following the analysis of the instrument performance (tune) check and prior to the analysis of the method blank and samples. The CCAL may be part of the ICAL or run independently on another 12 hour analysis period.
- (RRF) 4 SPCC compounds >0.050
- 13 CCC ± 30% (%D)

2. DAA Method Performance Criteria:

- All target analytes and system monitoring CMPDS (surrogates) must have RRF's ≥0.05 and %D must be within ± 25.0%.
- * Does CCAL meet this criteria? Yes __ No X
- If "No", list compounds which exceed criteria.

See table in comments.

- Calculation check RRF X and %D X

3. Contractual Requirements:

- All target analytes and SMC (SURR) must have %D ± 25.0%.
- 5 CMPDS may fail to meet minimum RRF's or maximum %D as long as they have RRF's ≥ 0.010 and %D ±40.0%.
- * Does CCAL meet this criteria? Yes X No__

Comments: The following continuing calibrations were associated with the original sample analyses:

CCAL	SW-846 Criteria	DAA Method Performance Criteria	Contractual Criteria
1SSTD07 7/8/95 Associated samples: MW-1, MW-3, MW-6, Trip Blank-1	All criteria met.	DAA method performance criteria for 3-nitroaniline was exceeded for %D (%D=27.3%). Qualification of the results as estimated (J) in the associated samples was required for 3-nitroaniline.	All criteria met.
3SSTD07 7/18/95 Associated samples: MW-1, MW-3, MW-6, Trip Blank-1	All criteria met.	All criteria met.	All criteria met.
7SSTD07 7/18/95 Associated samples: MW-1, MW-3, MW-6, Trip Blank-1	All criteria met.	Criteria for disulfoton was exceeded for %D (%D=35.9%). Qualification of the results, in the associated samples as estimated (J) was required for disulfoton.	All criteria met.
8SSTD07 7/18/95 Associated samples: MW-1, MW-3, MW-6, Trip Blank-1	All criteria met.	All criteria met.	All criteria met.

9SSTD07 7/18/95 Associated samples: MW-1, MW-3, MW-6, Trip Blank-1	All criteria met.	Criteria for RRF was exceeded for o,o,o-triethylphosphorothioate (RRF=0.034). Qualification of result for this compound was not required due to %RSD/%D requirements being met and lab has demonstrated that they can meet LOQ of 10 ug/ml.	All criteria met.
1SSTD08 7/19/95 Associated samples: Trip Blank-2, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	All criteria met.	All criteria met.	All criteria met.
3SSTD08 7/19/95 Associated samples: Trip Blank-2, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	All criteria met.	All criteria met.	All criteria met.
7SSTD08 7/19/95 Associated samples: Trip Blank-2, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	All criteria met.	Criteria was exceeded for disulfoton and chlorobenzilate, for %D (disulfoton %D=27.4%, chlorobenzilate %D=25.2%). Qualification of the results in the associated samples as estimated was required for these 2 compounds.	All criteria met.
8SSTD08 7/19/95 Associated samples: Trip Blank-2, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	All criteria met.	All criteria met.	All criteria met.

9SSTD08 7/19/95 Associated samples: Trip Blank-2, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	All criteria met.	Criteria for %D was exceeded for methapyrilene and 2-acetylaminofluorene (methapyrilene %D=27.3%, and 2-acetylaminofluorene %D=33.8%). Qualification of the results as estimated for these compounds was required for the associated samples.	All criteria met.
1SSTD09 7/19/95 Associated samples: MW-2, MW-4, MW-9, MW-9MS, MW-9MSD	All criteria met except for di-n-octyl phthalate %D = 35.6. *A close examination of the overall CCAL results does not indicate the need for qualification of results for other parameters.	Criteria for %D was exceeded for di-n-octyl phthalate (%D=35.6%). Qualification of results as estimated for this parameter were required for the associated samples.	All criteria met.
3SSTD09 7/19/95 Associated samples: MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12	All criteria met.	Criteria for %D was exceeded for 7,12-dimethylbenz(a)anthracene (%D=26.5%). Qualification of result as estimated was required for the associated samples.	All criteria met.
7SSTD09 7/19/95 Associated samples: MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12	All criteria met.	Criteria for %D was exceeded for chlorobenzilate (%D=29.4%). Qualification of results as estimated was required for the associated samples.	All criteria met.
8SSTD09 7/20/95 Associated samples: MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12	All criteria met.	All criteria met.	All criteria met.

9SSTD09 7/20/95 Associated samples: MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12	All criteria met.	0,0,0-Triethylphosphorothioate RRF=0.034, qualification of results not necessary as discussed earlier. Criteria for %D was exceeded for methapyrilene (%D=39.5%) and 2-acetylaminofluorene (%D=36.7%). Qualification of the results as estimated was required for the associated samples for these two parameters.	All criteria met.

The following CCAL was associated with the reextraction analyses of the MW-2, MW-4, MW-17, and MW-9 samples and the reanalysis of the MW-12 samples:

CCAL	SW-846 Criteria	DAA Method Performance Criteria	Contractual Criteria
1SSTD14 7/31/95 Associated samples: MW-9RE, MW-17RE (matrix interference confirmation) MW-2RE, MW-4RE (bis-(2ethylhexyl)phthalate) MW-12R (reanalysis for di-n-octyl phthalate (RE - Reextraction, R = Reanalysis)	All criteria met.	Criteria for matrix interference confirmation for the MW-9RE and MW-17RE were met. Criteria for %D was exceeded for bis(2-ethylhexyl) phthalate (%D = 29.6%) on the MW-2 and MW-4 samples only. Qualification of the result was required for the associated samples (MW-2RE and MW-4RE). Criteria for di-n-octyl phthalate was met for the MW-12R sample.	All criteria met.

X **G. BLANKS CRITERIA:**

- A Method blank must be analyzed on each GC/MS system used to analyze a specific group or set of samples.
- Interference free
- Trip Blank, Equipment blank, Method Blank

Comments: The following blanks were associated with the original sample analyses:

Blank	Associated Samples	Contaminants
SBLK07 File: SPBLK07.D 7/18/95 All parameters	Trip Blank-1, MW-1, MW-3, MW-6, MW-1MS, MW-1MSD, MW-7, MW-8, MW-10, MW-11, MW-17	None
SBLK08 File: SPBLK08.D 7/19/95 All parameters (MW-12R for di-n-octyl phthalate only)	Trip Blank-2, MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12, MW-12R, (R=reanalysis)	bis(2-ethylhexyl)phthalate 50 µg/L
SBLK14 File: SPBLK14.D 7/31/95 1. matrix interference confirmation 2. bis(2-ethylhexyl)phthalate	1. MW-9RE, MW-17RE 2. MW-2RE, MW-4RE (RE=Reextraction)	None
Trip Blank-1 File: 180859.D 7/18/95 All parameters	MW-1, MW-1MS, MW-1MSD, MW-3, MW-6, MW-7, MW-8, MW-10, MW-11, MW-17	None
Trip Blank-2 File: 180884.D 7/19/95 All parameters	MW-2, MW-4, MW-9, MW-9MS, MW-9MSD, MW-12	None

X **H. SURROGATE SPIKES CRITERIA:**

Surrogate	%Recovery Water
Phenol - d_6	(10-94)
2-Fluorophenol	(21-100)
2,4,6-Tribromophenol	(10-123)
Nitrobenzene - d_5	(35-114)
2-Fluorobiphenyl	(43-116)
p-Terphenyl - d_{14}	(33-141)

- If any two base/neutral or acid surrogates are out of specification, or if any one base/neutral or acid extractable surrogate has a recovery of less than 10%, then there should be a re-extraction and reanalysis to confirm that the non-compliance is due to sample matrix effects rather than laboratory deficiencies.
- Calculation check of % Recovery X

Comments: All three acid surrogate recoveries for the MW-17 sample were below 10% as listed on the form II, page 62. Two acid surrogate recoveries for sample MW-9 were below QC limits but greater than 10%. Reextraction of these samples was conducted and reanalysis of these samples revealed very consistent results with the original analyses. Matrix interference was judged as the cause of the low recoveries of the acid surrogates. Holding times for the reextracted samples for MW-17 and MW-9 were exceeded. Due to acid surrogate recoveries less than 10%, in MW-17 the acid fraction results of the analysis are qualified as unusable (R). Due to low acid surrogate recoveries, although greater than 10%, in MW-9 the acid fraction results of the analysis are qualified as estimated. No matrix interference problems were found in the MW-9MS and MW-9MSD samples. Review of extraction and analytical logs do not reveal a possible explanation for this inconsistency. The following parameters are associated with the acid fraction and are affected by this validation: benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 2-methylphenol, 3-methylphenol, 4-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol.

X I. **MATRIX SPIKE, MATRIX SPIKE DUPLICATES CRITERIA: (MS/MSD Requirements-CLP Guidelines)**

Compound	%R Water	RPD Water
Phenol	12-110	42
2-Chlorophenol	27-123	40
1,4-Dichlorobenzene	36-97	28
N-Nitroso-di-n-propylamine	41-116	38
1,2,4-Trichlorobenzene	39-98	28
4-Chloro-3-methylphenol	23-97	42
Acenaphthene	46-118	31
4-Nitrophenol	10-80	50
2,4-Dinitrotoluene	24-96	38
Pentachlorophenol	9-103	50
Pyrene	26-127	31

- Calculation check % Recovery X and RPD X

Comments: MS and MSD analyses were conducted on MW-1 and MW-9 samples. All relative percent differences (%RPD) were met for all MS/MSD samples. All percent recovery (%R) values met compliance requirements for MS/MSD samples except 4-nitrophenol in MW-9MSD where the %R was 81%. The recovery window for this parameter is 10-80%. Obviously this is a very minor issue and no qualification or further review is required. All required MS/MSD compounds listed above were included in the analyses.

X J. **INTERNAL STANDARDS CRITERIA:**

- 1,4-Dichlorobenzene-d_4
- Naphthalene-d_8
- Acenaphthene-d_{10}
- Phenanthrene-d_{10}
- Chrysene-d_{12}

- Perylene-d_{12}
- Internal standard area - 50% to +100% of last CC
- Internal standard RF ± 30 sec of last CC
- Were these internal standards used?
- Were these QC windows (-50% to +100%) calculated properly?

Comments: All internal standard and retention time criteria were met.

X **K. TARGET PARAMETER IDENTIFICATION**

- Check that the RRT of the reported parameter is within ± 0.06 RRT units of the standard RRT.
- Check the sample parameter spectra against the laboratory standard spectra to see that it meets the following criteria:
- All ions present in the standard spectrum at a relative intensity >10% must be present in the sample spectrum.
- The relative intensities of the ions must agree ± 20% between the standard and sample spectra.
- Consider and account for ions present at >10% in the sample mass spectrum and not in the standard spectrum.

1. Are all reported parameters confirmable?
2. Check that all parameter concentrations recorded on the raw sample quantitation reports were accurately transferred to the sample summary sheets.

Comments: All target parameter identification criteria was met and all parameter concentrations were accurately transferred from the raw sample data to the sample summary sheets.

The LOQ values for MW-7 are 5X the normal laboratory LOQ due to limited sample volume necessitating the extraction of 200 ml instead of the normal 1000 ml.

X **L. LIBRARY SEARCHES**

Comments: Library searches were not requested with this data set.

X **M. ADDITIONAL COMMENTS**

Revision 2 was requested to revise the MDL study (page 11) to reflect revised LOQ for bis(2-ethylhexyl)phthalate and to revise the LOQs for all parameters for the MW-7 sample to 5X their current value.

Draper Aden Associates conducted a data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data evaluation was conducted using SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd Edition - Final Update I and II/IIA) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, February, 1994). Random representative data points were selected for calculation verification. Validation of this data set is not considered to be a comprehensive evaluation.

Validated by: _____ Date: 1/10/96

Analytical Data Set Notes

METHOD	PARAMETER	WELLS	LAB RESULT (PPB)	VALIDATED RESULT (PPB)	NOTES
8270A	3-nitroaniline	MW-1	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	disulfoton	MW-1	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except 3-nitroaniline and disulfoton	MW-1	U	U	No detected parameters above the LOQs.
8270A	chlorobenzilate	MW-2	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-2	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-2	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	di-n-octyl phthalate	MW-2	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%.

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8270A	methapyrilene	MW-4	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-4	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	di-n-octyl phthalate	MW-4	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%.
8270A	7,12-dimethylbenz(a)anthracene	MW-4	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	bis(2-ethylhexyl)phthalate	MW-4	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. Sample was reextracted and reanalyzed, but results for this parameter were estimated since reextraction/reanalysis missed holding time criteria. Results for this target parameter were taken from reextraction / reanalysis of the sample, which were performed outside of holding time.
8270A	All parameters except chlorobenzilate, methapyrilene, 2-acetylaminofluorene, di-n-octyl phthalate, 7,12-dimethylbenz(a)anthracene, and bis(2-ethylhexyl) phthalate	MW-4	U	U	No detected parameters above the LOQs. All results except bis (2-ethylhexyl) phthalate are from the original extraction and analysis.

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8270A	3-nitroaniline	MW-6	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	disulfoton	MW-6	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except 3-nitroaniline and disulfoton	MW-6	U	U	No detected parameters above the LOQs.
8270A	disulfoton	MW-7	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	chlorobenzilate	MW-7	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-7	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-7	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except disulfoton, chlorobenzilate, methapyrilene, and 2-acetylaminofluorene	MW-7	U	U	No detected parameters above the LOQs.

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8270A	disulfoton	MW-8	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	chlorobenzilate	MW-8	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-8	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-8	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except disulfoton, chlorobenzilate, methapyrilene, and 2-acetylaminofluorene	MW-8	U	U	No detected parameters above the LOQs.
8270A	chlorobenzilate	MW-9	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-9	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").

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8270A	2-acetylaminofluorene	MW-9	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	di-n-octyl phthalate	MW-9	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%.
8270A	7,12-dimethylbenz(a)anthracene	MW-9	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 4-methylphenol, 3-methylphenol, 2-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol	MW-9	U	UJ	All parameters associated with the acid fraction of this analysis are qualified as estimated due to low acid surrogate recoveries.

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8270A	All parameters except chlorobenzilate, methapyrilene, 2-acetylaminofluorene, di-n-octyl phthalate, 7,12-dimethylbenz(a)anthracene and benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 4-methylphenol, 3-methylphenol, 2-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol.	MW-9	U	U	No detected parameters above the LOQs. All results are from the original extraction and analysis. Re-extraction and reanalysis data is provided for matrix interference confirmation only.
8270A	disulfoton	MW-10	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	chlorobenzilate	MW-10	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-10	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-10	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").

8270A	All parameters except disulfoton, chlorobenzilate, methapyrilene, and 2-acetylaminofluorene	MW-10	U	U	No detected parameters above the LOQs.
8270A	disulfoton	MW-11	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	chlorobenzilate	MW-11	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-11	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-11	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except disulfoton, chlorobenzilate, methapyrilene, and 2-acetylaminofluorene	MW-11	U	U	No detected parameters above the LOQs.
8270A	chlorobenzilate	MW-12	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-12	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").

8270A	2-acetylaminofluorene	MW-12	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	di-n-octyl phthalate	MW-12	U	U	Results for di-n-octyl phthalate are from the reanalysis of MW-12.
8270A	7,12-dimethylbenz(a)anthracene	MW-12	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	All parameters except chlorobenzilate, methapyrilene, 2-acetylaminofluorene, di-n-octyl phthalate, and 7,12-dimethylbenz(a)anthracene	MW-12	U	UJ	No detected parameters above the LOQs.
8270A	disulfoton	MW-17	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	chlorobenzilate	MW-17	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	methapyrilene	MW-17	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").
8270A	2-acetylaminofluorene	MW-17	U	UJ	Criteria for % Deviation (%D) exceeded DAA method performance criteria of ± 25%. All results for parameter were estimated ("J").

8270A	benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 4-methylphenol, 3-methylphenol, 2-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol	MW-17	U	R	All parameters associated with the acid fraction of the analysis are qualified as unusable (R) due to 3 acid surrogate recoveries less than 10%.
8270A	All parameters except disulfoton, chlorobenzilate, methapyrilene, and 2-acetylaminofluorene, benzyl alcohol, 4-chloro-3-methyl phenol, 2-chlorophenol, 4-chlorophenol, 4-methylphenol, 3-methylphenol, 2-methylphenol, 2,4-dichlorophenol, 2,6-dichlorophenol, 2,4-dimethyphenol, 4,6-dinitro-2-methylphenol, 2,4-dinitrophenol, 2-nitrophenol, 4-nitrophenol, phenol, 2,3,4,6-tetrachlorophenol, 2,4,5-trichlorophenol and 2,4,6-trichlorophenol.	MW-17	U	U	No detected parameters above the LOQs. All results are from the original extraction and analysis. Re-extraction and analysis data is provided for matrix interference confirmation only.

See definition section (Section IV.B of report [Volume 1]) for additional information on Data Validation and Reporting Qualifiers.

gsl 1/96

SECTION 4.3

REVISIONS TO ORIGINAL DATA SET

Draper Aden Associates
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November 9, 1995

Mr. Richard R. Whitney, Ph.D.
Organics Department Manager
ETS Analytical Services, Inc.
1401 Municipal Road, NW
Roanoke, Virginia 24012-1309

RE: Watauga County Landfill - 1st Semi-Annual Assessment Monitoring
Required revisions for GC/MS 8270A and 8260 Analytical Data
ETS SDG #180851
DAA Job No.: 6520-21

Dear Rich:

Draper Aden Associates has conducted a thorough review of the analytical data for Watauga County Landfill's 1st Semi-Annual Assessment Monitoring Event for GC/MS methods 8270A and 8260. Overall, the data sets were very complete; however, the following revisions and discussions are needed to complete the validation process:

Method 8270A

1. The LOQ for bis(2-ethylhexyl)phthalate was still listed as 10 ug/L, instead of 6 ug/L on page R1 101. All other LOQs for this compound were correctly reported in your first revision.

2. Revise the LOQ for bis(2-ethylhexyl) phthalate to 6 ug/L on page 11 of the March 1995 SV MDL study.

3. Review and revise the LOQ data for all target parameters for the MW-7 raw data summary pages 105-108. The initial sample volume which was submitted and extracted was 200 ml instead of 1000 ml and the sample was concentrated to 1 ml. Thus, the LOQs for all parameters must be elevated by a factor of 5X to compensate.

Method 8260

1. Provide a revised narrative with your signature.

2. Document in the narrative that instrument tuning was accomplished using a 50 ng BFB standard.

3. The concentration of 1,1,1-trichloroethane was incorrectly transferred from the MW-2DL diluted analysis. The correct concentration from this analysis was 1570 ug/L. Please provide a revised Volatile Organics Analysis Data Sheet for MW-2 (page 193).

ETS Analytical Services, Inc.

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A subsidiary of ETS International, Inc.

WATAUGA COUNTY LANDFILL / DRAPER ADEN ASSOCIATES

CORRECTIONS AND RESUBMISSIONS

Laboratory Name: ETS Analytical Services, Inc., Roanoke, VA.

Project Number: 6520-21

Landfill: Watauga County Landfill, Watauga County, North Carolina First Semiannual Monitoring

SDG: 180851

Attn.: Mr. Jeff Pack
Draper Aden Associates
2206 South Main Street
Blacksburg, Virginia 24060

Re.: Your letter of 11/8/95

Sample Analysis Method: EPA 8260

Comments: (referring to item numbers in your letter)
Method 8270A

1. See attached revised Form 1.

2. See attached revised MDL summary.

3. See attached revised Form 1.
Method 8260A

1-2. See attached signed (revised) narrative.

3. See attached Revised Form 1.

4-5. See atttached revised narrative.

6. Calibration for acrolein, propionitrile, and isobutanol is conducted at levels five-fold higher than for the other compounds, due to low purging efficiency for these compounds (ie, 50, 100, 250, 500, 1000 ug/l for the initial calibration and 250ug/l for the continuing calibration).

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7. Difficulty was encountered with calibration for 1,1-dichloroethene and trichlorofluoromethane, and the integration results presented on p 255 are correct. Ultimately, this problem was overcome by preparing a more concentrated working standard for the higher calibration levels so that the amount of methanol in each purged aliquot is held constant. It is our opinion (in retrospect) that results for the sample are accurate, since the amount of methanol in the purged aliquot is the same as that for the daily calibration standard.

8. Difficulty was encountered in the software identification of 1,1-dichloroethane, and the revised results are enclosed. The data files were reprocessed on 12/4/95, and 1,1-dichloroethane was identified. It should be noted that the software is adjusted toward false positives, which can be eliminated by manual editing. This is to minimize the possibility of false negatives. This is the first known instance of software-generated false negative results in our experience with the software.

Richard R. Whitney, Ph.D.
Organics Department Manager

12/5/95
Date

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COMPOUND NAME	SPIKE AMOUNT	MEAN % REC.	STD DEV	RSD	LOD	LOQ	RepL	MCL	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
3,3'-Dimethylbenzidine	20	99	1.57	7.9	4.72	15.7	20		19.29	18.56	19.51	18.24	19.12	21.75	22.30
Butylbenzylphthalate	10	68	0.72	10.6	2.16	7.2	10		5.74	6.76	6.80	6.87	7.73	7.64	6.15
Kepone	10	152	1.60	10.5	4.79	16.0	10		13.54	15.90	17.17	15.70	16.95	13.25	14.17
2-Acetylaminofluorene	10	55	0.61	11.1	1.84	6.1	10		4.74	5.37	5.61	5.46	6.52	5.99	4.90
3,3'-Dichlorobenzidine	10	72	0.85	11.9	2.56	8.5	10		6.21	7.02	7.11	7.10	8.74	7.69	6.35
Benzo[a]anthracene	10	72	0.70	9.8	2.11	7.0	10		6.12	7.19	7.04	7.14	7.96	8.08	6.55
Chrysene	10	71	0.69	9.8	2.07	6.9	10		6.16	7.09	7.03	7.01	7.95	7.93	6.36
bis(2-Ethylhexyl)phthalate	10	69	0.64	9.2	1.92	6.4	6	6	6.00	6.81	6.97	6.76	7.81	7.69	6.50
Di-n-octylphthalate	10	70	0.68	9.7	2.05	6.8	10		5.99	6.81	6.97	7.18	7.96	7.80	6.59
7,12-Dimethylbenz(a)anthracene	10	38	0.41	10.6	1.22	4.1	10		3.97	4.16	3.81	3.61	4.09	4.11	3.01
Benzo[b]fluoranthene	10	69	0.76	11.0	2.28	7.6	10		5.63	7.02	7.01	7.06	7.19	8.04	6.26
Benzo[k]fluoranthene	10	76	0.64	8.4	1.91	6.4	10		6.65	7.51	7.66	7.51	8.49	8.33	7.16
Benzo[a]pyrene	10	69	0.71	10.3	2.14	7.1	10	0.2	5.86	6.78	6.91	6.83	7.83	7.78	6.33
3-Methylcholanthrene	10	40	0.72	18.0	2.15	7.2	10		3.31	3.50	4.05	3.87	4.91	4.98	3.26
Indeno[1,2,3-cd]pyrene	10	67	0.70	10.5	2.10	7.0	10		5.80	6.50	6.73	6.51	7.56	7.62	6.02
Dibenz[a,h]anthracene	10	67	0.71	10.7	2.14	7.1	10		5.70	6.41	6.77	6.51	7.61	7.55	6.08
Benzo[g,h,i]perylene	10	67	0.59	8.8	1.77	5.9	10		6.04	6.62	6.75	6.54	7.52	7.55	6.21

All units are reported in ug / L except MEAN % REC, and RSD which are Percentages.
RepL = Reporting Limit

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 99-R2

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 100-R

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 101-R

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 103-2

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 105-R2

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	50	U
10595-95-6	N-Nitrosomethylethylamine	50	U
66-27-3	Methyl methanesolfonate	50	U
55-18-5	N-Nitrosodiethylamine	50	U
62-50-0	Ethyl methanesulfonate	50	U
108-95-2	Phenol	50	U
111-44-4	bis(2-Chloroethyl)ether	50	U
95-57-8	2-Chlorophenol	50	U
100-51-6	Benzyl alcohol	50	U
95-48-7	2-Methylphenol	50	U
106-44-5	3 & 4-Methylphenol	50	U
108-60-1	bis(2-Chloroisopropyl)ether	50	U
930-55-2	N-Nitrosopyrrolidine	50	U
621-64-7	N-Nitroso-di-n-propylamine	50	U
67-72-1	Hexachloroethane	50	U
98-86-2	Acetophenone	50	U
95-53-4	0-Toluidine	50	U
98-95-3	Nitrobenzene	50	U
100-75-4	N-Nitrosopiperidine	50	U
78-59-1	Isophorone	50	U
88-75-5	2-Nitrophenol	50	U
105-67-9	2,4-Dimethylphenol	50	U
126-68-1	O,O,O-Triethyl phosphorothioate	50	U
111-91-1	bis(2-Chloroethoxy)methane	50	U
120-83-2	2,4-Dichlorophenol	50	U
87-65-0	2,6-Dichlorophenol	50	U
106-47-8	4-Chloroaniline	50	U
1888-71-7	Hexachloropropene	50	U
924-16-3	N-Nitrosodibutylamine	50	U
106-50-3	1,4-Benzenediamine	500	U
59-50-7	4-Chloro-3-methylphenol	50	U
102-58-1	Isosafrole	50	U
94-59-7	Safrole	50	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 106-R2

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	50	U
77-47-4	Hexachlorocyclopentadiene	100	U
95-94-3	1,2,4,5-Tetrachlorobenzene	50	U
88-06-2	2,4,6-Trichlorophenol	50	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	50	U
88-74-4	2-Nitroaniline	50	U
99-09-2	3-Nitroaniline	50	U
100-01-6	4-Nitroaniline	50	U
130-15-4	1,4-Naphthoquinone	50	U
99-65-0	1,3-Dinitrobenzene	50	U
208-96-8	Acenaphthylene	50	U
131-11-3	Dimethylphthalate	50	U
606-20-2	2,6-Dinitrotoluene	50	U
121-14-2	2,4-Dinitrotoluene	50	U
83-32-9	Acenaphthene	50	U
51-28-5	2,4-Dinitrophenol	50	U
132-64-9	Dibenzofuran	50	U
100-02-7	4-Nitrophenol	50	U
608-93-5	Pentachlorobenzene	50	U
134-32-7	1-Naphthylamine	50	U
91-59-8	2-Naphthylamine	50	U
297-97-2	Thionazin	50	U
99-58-8	5-Nitroso-o-toluidine	50	U
86-73-7	Fluorene	50	U
7005-72-3	4-Chlorophenyl-phenylether	50	U
84-66-2	Diethylphthalate	50	U
935-95-5	2,3,4,6-Tetrachlorophenol	50	U
534-52-1	4,6-Dinitro-2-methylphenol	50	U
86-3-6	N-Nitrososdiphenylamine	50	U
122-39-4	Diphenylamine	50	U
99-35-4	1,3,5-Trinitrobenzene	50	U
2303-16-4	trans-Diallate	50	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 107-R

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	50	U
298-02-2	Phorate	100	U
62-44-2	Phenacetin	50	U
101-55-3	4-Bromophenyl-phenylether	50	U
60-51-5	Dimethoate	50	U
92-67-1	4-Aminobiphenyl	50	U
82-68-8	Pentachloronitrobenzene	50	U
23950-58-5	Pronamide	50	U
298-04-4	Disulfoton	50	U
85-01-8	Phenanthrene	50	U
120-12-7	Anthracene	50	U
298-00-0	Methyl parathion	50	U
84-74-2	Di-n-butylphthalate	50	U
56-38-2	Parathion	50	U
206-44-0	Fluoranthene	50	U
91-80-5	Methapyrilene	50	U
465-73-6	Isodrin	50	U
129-00-0	Pyrene	50	U
60-11-7	Dimethylaminoazobenzene	50	U
510-15-6	Chlorobenzilate	50	U
52-85-7	Famphur	50	U
119-93-7	3,3'-Dimethylbenzidine	100	U
85-68-7	Butylbenzylphthalate	50	U
143-50-0	Kepone	50	U
53-96-3	2-Acetylaminofluorene	50	U
91-94-1	3,3'-Dichlorobenzidine	50	U
56-55-3	Benzo[a]anthracene	50	U
218-01-9	Chrysene	50	U
117-81-7	bis(2-Ethylhexyl)phthalate	30	U
117-84-0	Di-n-octylphthalate	50	U
57-97-9	7,12-Dimethylbenz(a)anthracene	50	U
205-99-2	Benzo[b]fluoranthene	50	U
207-08-9	Benzo[k]fluoranthene	50	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. 108-R

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	50	U
193-39-5	Indeno[1,2,3-cd]pyrene	50	U
53-70-3	Dibenz[a,h]anthracene	50	U
191-24-2	Benzo[g,h,i]perylene	50	U

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WATAUGA COUNTY LANDFILL / DRAPER ADEN ASSOCIATES

CORRECTIONS AND RESUBMISSIONS

Laboratory Name: ETS Analytical Services, Inc., Roanoke, VA.

Project Number: 6520-21

Landfill: Watauga County Landfill, Watauga County, North Carolina First Semiannual Monitoring

SDG: 180851

Attn.: Ms. Jeanie Flint
Draper Aden Associates
2206 South Main Street
Blacksburg, Virginia 24060

Sample Analysis Method: EPA ~~8260~~ 8270A

Comments:

1. At your request, the Forms 1 for the semivolatile analyses are being resubmitted with a reporting limit of 6 ug/L for bis(2-ethylhexyl) phthalate. No other corrections / resubmissions are being made at this time.

Richard R. Whitney, Ph.D.
Organics Department Manager

9/25/95
Date

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

87 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

88R1

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

89R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

92R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

93 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

95R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

96R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

99R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

100 RI

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

161 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

102 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

VOID

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1E5R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

106 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

108 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

12 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

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1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

4R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1981

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

120 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

123 R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

131 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

135 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

138R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

142 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

143R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

144 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) _____ Date Received: 7/13/95

% Moisture: _____ decanted: (Y/N): _____ Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

154R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) _____ Date Received: 7/13/95

% Moisture: _____ decanted: (Y/N): _____ Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

155R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

156R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

157 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

160K1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	8.4	B
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-04

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

3R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881R

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: 180881RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881R

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: 180881RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

168 R

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881R

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: 180881RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881R

Sample wt/vol: 970.0 (g/mL) ML Lab File ID: 180881RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

170R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

175R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

FORM I SV 3/90

176R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180882RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

177R1
179R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180882RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180882RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

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~~180~~ R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180882RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

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

CAS No.	Compound	ug/L	Q
56-49-5	3-Methylcholanthrene	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

FORM I SV

3/90

182R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

188R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12R

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883R

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883R.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12R

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883R

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883R.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12R

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883R

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883R.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-12R

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180883R

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180883R.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK 2

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180884S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180884.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK 2

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180884S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180884.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK 2

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180884S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180884.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

199R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK 2

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180884S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180884.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

200R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK07

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK07.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

390 R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK07

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK07.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK07

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK07.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK07

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK07.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK14

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK14.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK14

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK14.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK14

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK14.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

SBLK14

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: SPBLK14

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: SPBLK14.D

Level: (low/med) Date Received:

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	39	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	40	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	28	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	40	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	33	
83-32-9	Acenaphthene	28	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	42	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	35	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	44	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	45	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	51	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	37	
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	46	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	41	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

420R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	42	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	46	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	46	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

421R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	45	
83-32-9	Acenaphthene	45	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	55	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	51	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	41	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	47	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	49	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

427R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	48	
83-32-9	Acenaphthene	47	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	61	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

428R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	52	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

429R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

430R1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

VOID

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

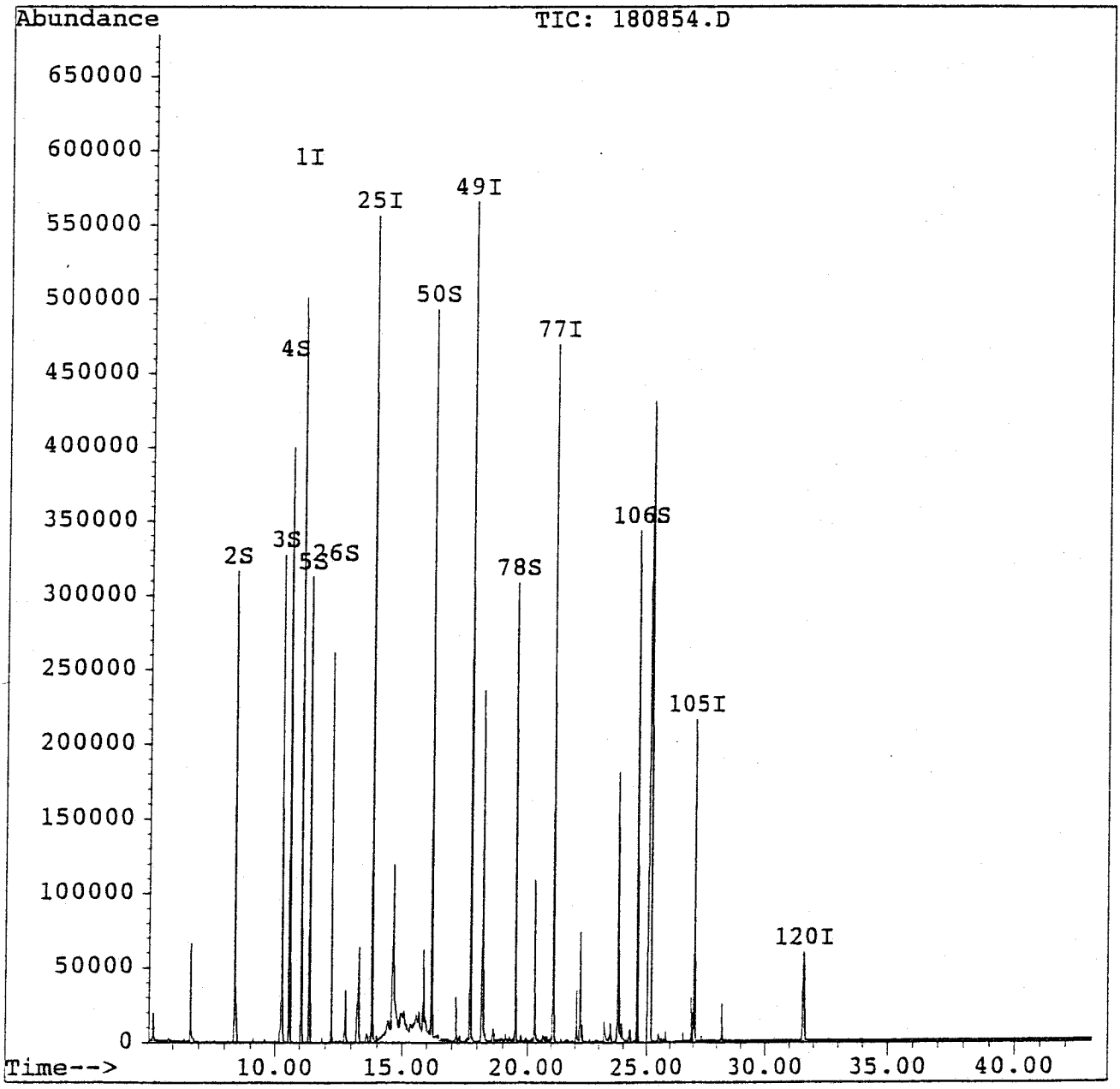
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180854.D
Acq Time : 19 Jul 95 5:07 pm
Sample : MW-07 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 17:51 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180854.D
Acq Time : 19 Jul 95 5:07 pm
Sample : MW-07 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 17:51 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	183912	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	615932	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.74	164	333739	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	428362	50.00	ug/ml	0.00
105) Chrysene-d12	27.03	240	224754	50.00	ug/ml	-0.02
120) Perylene-d12	31.57	264	123054	50.00	ug/ml	-0.01
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	8.38	112	209507	55.30	ug/ml	73.73%
3) Phenol-d5	10.28	99	260242	59.44	ug/ml	79.25%
4) 2-Chlorophenol-d4	10.59	132	258609	60.02	ug/ml	80.03%
5) 1,2-Dichlorobenzene-d4	11.39	152	102328	32.80	ug/ml	65.59%
26) Nitrobenzene-d5	12.24	82	147713	36.80	ug/ml	73.59%
50) 2-Fluorobiphenyl	16.20	172	320206	40.01	ug/ml	80.02%
78) 2,4,6-Tribromophenol	19.51	330	77691	65.35	ug/ml	87.14%
106) Terphenyl-d14	24.59	244	260313	46.08	ug/ml	92.16%

Target Compounds Qvalue

x200

(#) = qualifier out of range (m) = manual integration
180854.D MASTER.M Wed Jul 19 17:52:51 1995 ENV Page 1

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

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1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-08

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180855S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180855.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

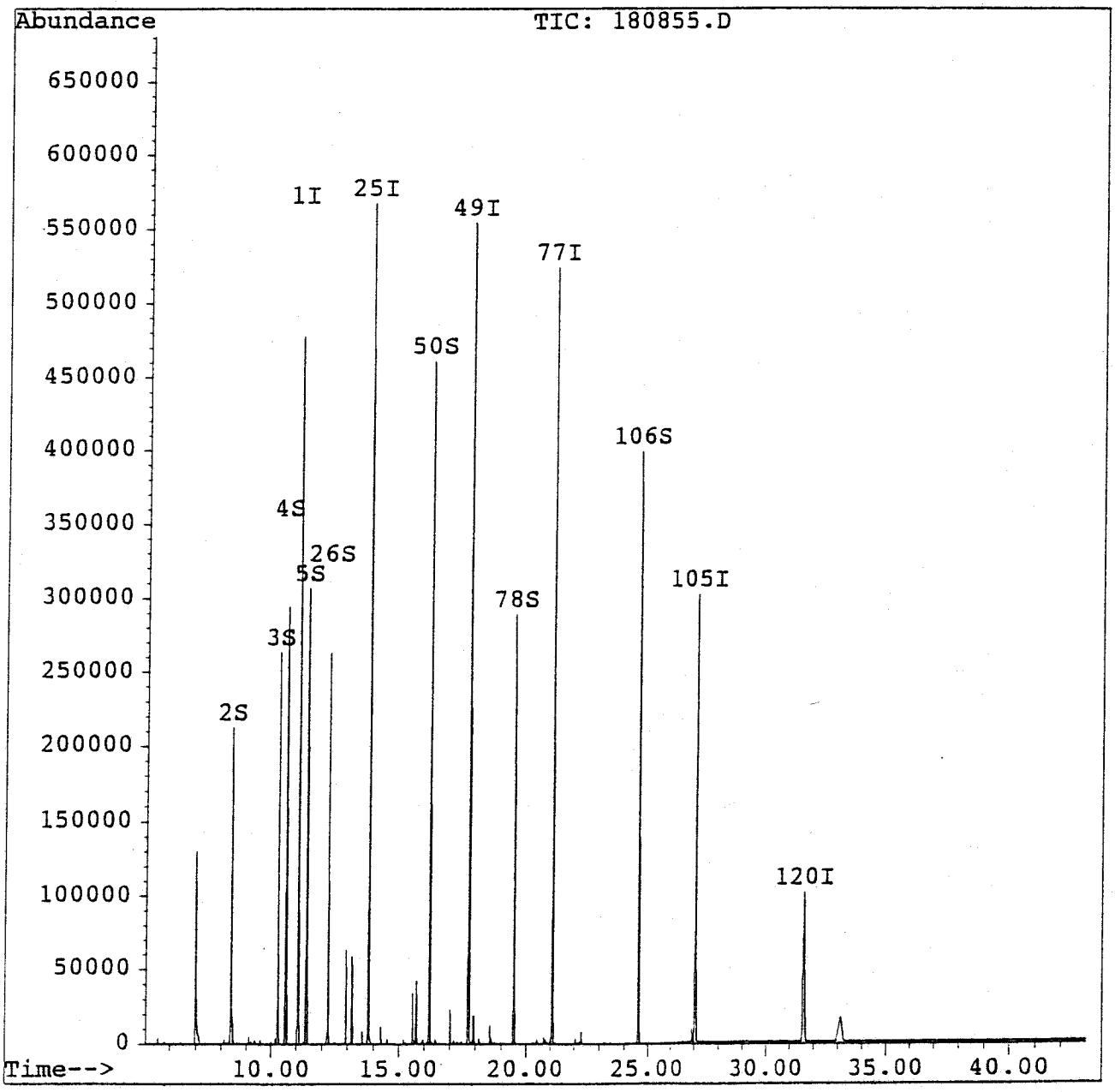
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180855.D
Acq Time : 19 Jul 95 5:59 pm
Sample : MW-08 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 18:43 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180855.D
Acq Time : 19 Jul 95 5:59 pm
Sample : MW-08 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 18:43 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	179120	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	614186	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.74	164	340655	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.07	188	465862	50.00	ug/ml	0.00
105) Chrysene-d12	27.04	240	316759	50.00	ug/ml	-0.01
120) Perylene-d12	31.59	264	195559	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	135664	36.76	ug/ml	49.02%
3) Phenol-d5	10.27	99	183952	43.14	ug/ml	57.52%
4) 2-Chlorophenol-d4	10.59	132	192730	45.93	ug/ml	61.24%
5) 1,2-Dichlorobenzene-d4	11.39	152	99462	32.73	ug/ml	65.46%
26) Nitrobenzene-d5	12.24	82	148138	37.01	ug/ml	74.02%
50) 2-Fluorobiphenyl	16.20	172	327076	40.04	ug/ml	80.08%
78) 2,4,6-Tribromophenol	19.49	330	70179	54.28	ug/ml	72.38%
106) Terphenyl-d14	24.59	244	309017	38.81	ug/ml	77.62%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VOID

MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VOID MW-10

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180856S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180856.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

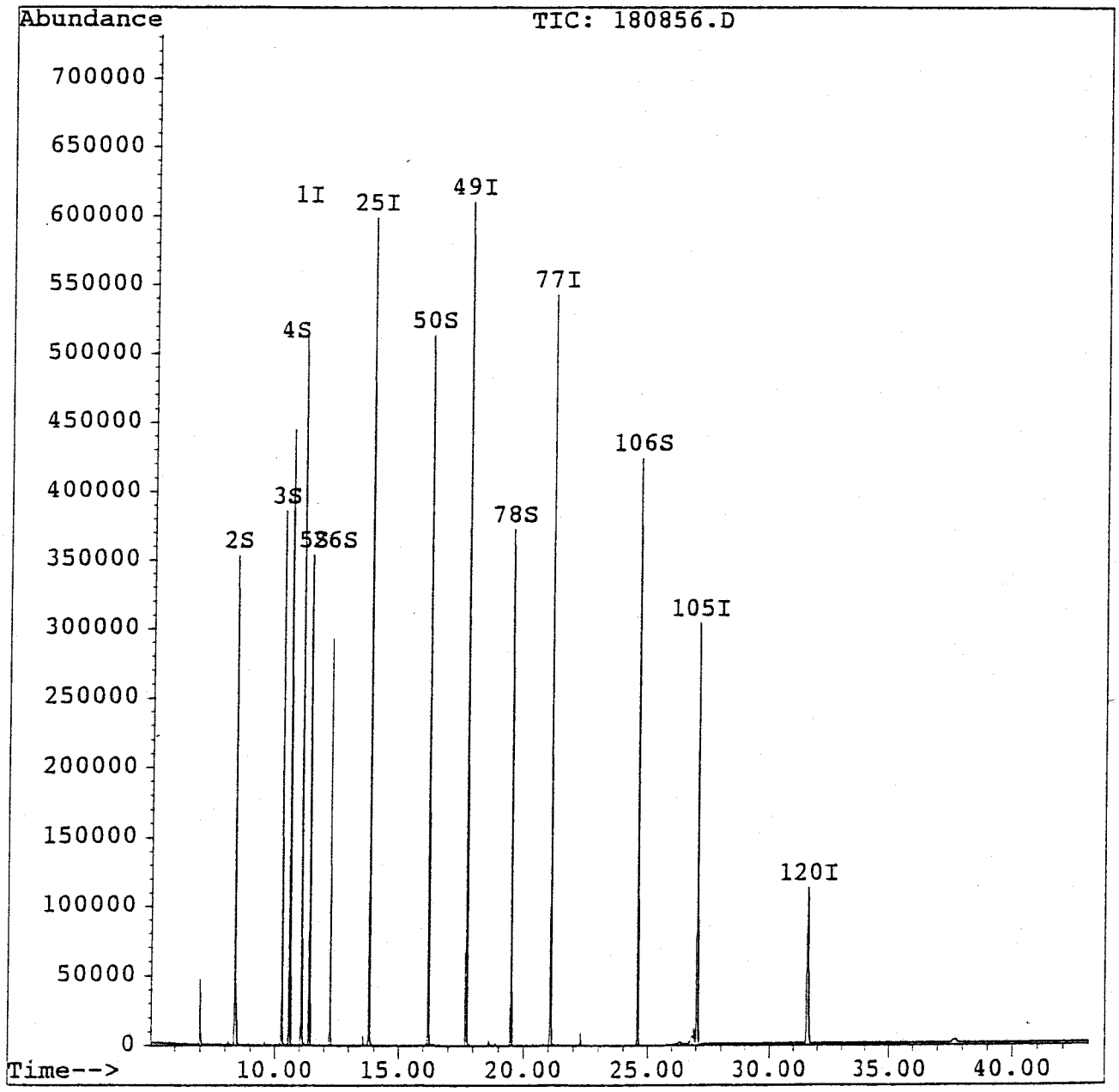
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180856.D
Acq Time : 19 Jul 95 6:51 pm
Sample : MW-10 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 19:35 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180856.D
Acq Time : 19 Jul 95 6:51 pm
Sample : MW-10 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 19:35 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	188162	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	651348	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.73	164	358912	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.07	188	492438	50.00	ug/ml	0.00
105) Chrysene-d12	27.03	240	316208	50.00	ug/ml	-0.02
120) Perylene-d12	31.59	264	219168	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	232825	60.06	ug/ml	80.08%
3) Phenol-d5	10.28	99	278931	62.27	ug/ml	83.03%
4) 2-Chlorophenol-d4	10.59	132	282297	64.04	ug/ml	85.38%
5) 1,2-Dichlorobenzene-d4	11.39	152	116702	36.56	ug/ml	73.12%
26) Nitrobenzene-d5	12.24	82	170034	40.05	ug/ml	80.11%
50) 2-Fluorobiphenyl	16.20	172	363089	42.19	ug/ml	84.37%
78) 2,4,6-Tribromophenol	19.50	330	93298	68.27	ug/ml	91.03%
106) Terphenyl-d14	24.59	244	313214	39.41	ug/ml	78.81%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11 VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-11

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VOID

MW-11

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180857S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180857.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

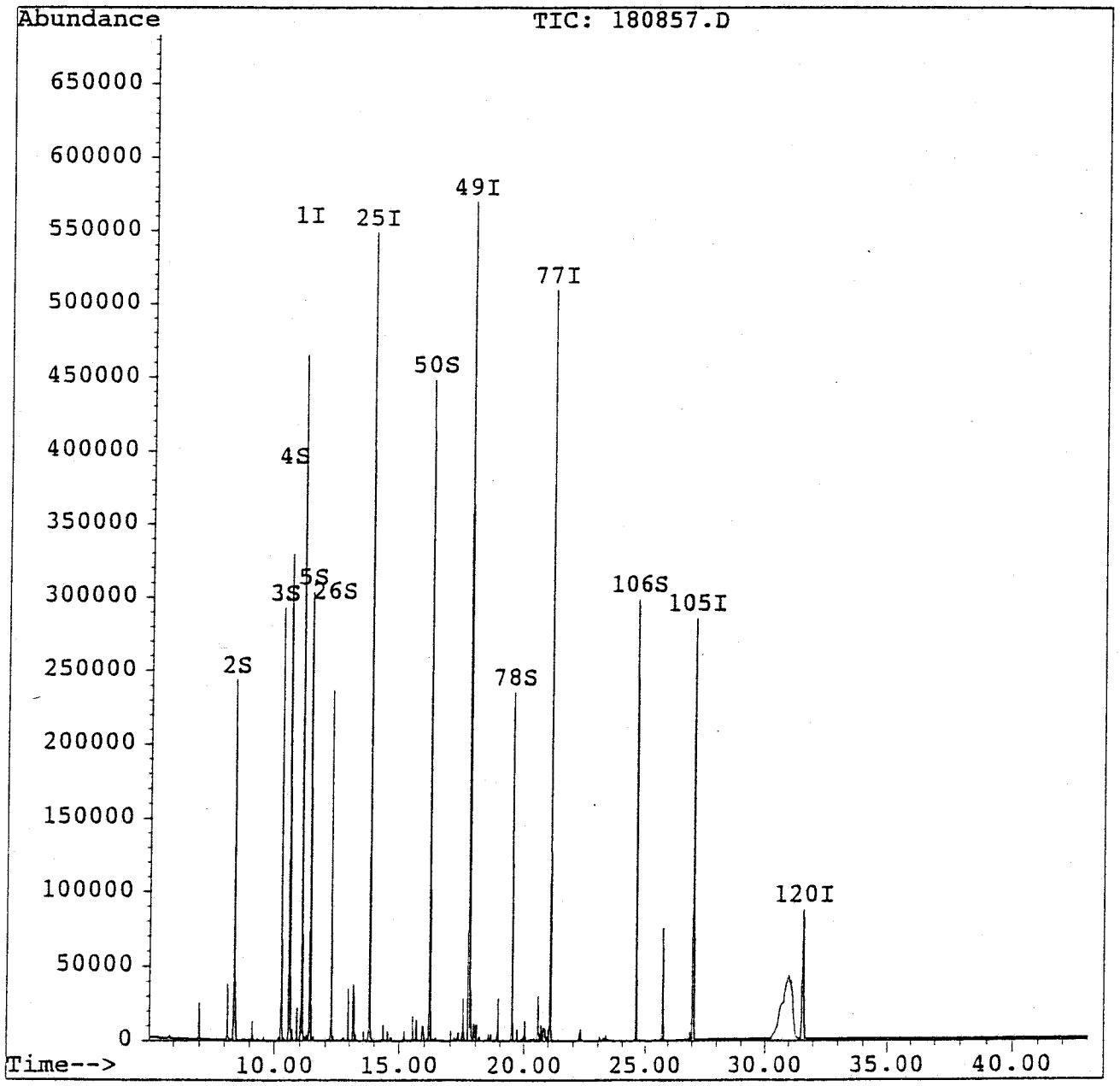
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180857.D
Acq Time : 19 Jul 95 7:43 pm
Sample : MW-11 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 20:28 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180857.D
Acq Time : 19 Jul 95 7:43 pm
Sample : MW-11 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 20:28 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.06	152	170175	50.00	ug/ml	-0.01
25) Naphthalene-d8	13.82	136	589724	50.00	ug/ml	-0.01
49) Acenaphthene-d10	17.73	164	324075	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.07	188	435302	50.00	ug/ml	0.00
105) Chrysene-d12	27.04	240	297126	50.00	ug/ml	-0.02
120) Perylene-d12	31.59	264	174104	50.00	ug/ml	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	8.38	112	156194	44.55	ug/ml	59.40%
3) Phenol-d5	10.27	99	200010	49.37	ug/ml	65.83%
4) 2-Chlorophenol-d4	10.59	132	211030	52.93	ug/ml	70.58%
5) 1,2-Dichlorobenzene-d4	11.39	152	96502	33.43	ug/ml	66.85%
26) Nitrobenzene-d5	12.24	82	137119	35.68	ug/ml	71.35%
50) 2-Fluorobiphenyl	16.20	172	299159	38.49	ug/ml	76.99%
78) 2,4,6-Tribromophenol	19.49	330	58917	48.77	ug/ml	65.03%
106) Terphenyl-d14	24.59	244	232214	31.09	ug/ml	62.18%
Target Compounds						**Qvalue**

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-17

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180858.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

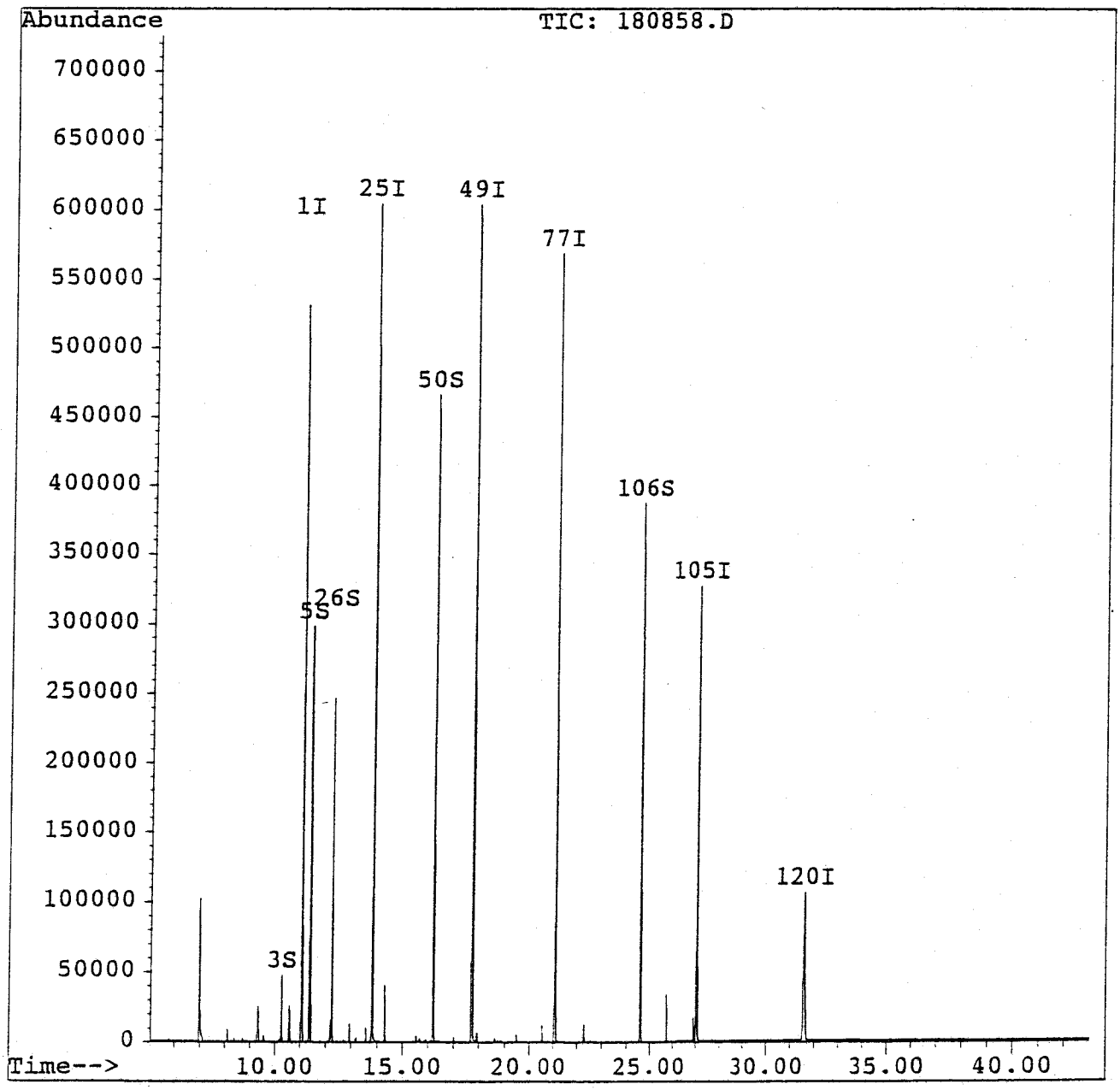
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180858.D
Acq Time : 19 Jul 95 8:36 pm
Sample : MW-17 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 21:20 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180858.D
Acq Time : 19 Jul 95 8:36 pm
Sample : MW-17 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 21:20 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.06	152	194642	50.00	ug/ml	-0.01
25) Naphthalene-d8	13.82	136	664318	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.73	164	368831	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.07	188	508464	50.00	ug/ml	0.00
105) Chrysene-d12	27.04	240	338045	50.00	ug/ml	-0.01
120) Perylene-d12	31.58	264	211796	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	2265	0.56	ug/ml	0.75%
3) Phenol-d5	10.26	99	36231	7.82	ug/ml	10.43%
4) 2-Chlorophenol-d4	10.58	132	17490	3.84	ug/ml	5.11%
5) 1,2-Dichlorobenzene-d4	11.39	152	100281	30.37	ug/ml	60.74%
26) Nitrobenzene-d5	12.24	82	144886	33.46	ug/ml	66.93%
50) 2-Fluorobiphenyl	16.19	172	321142	36.31	ug/ml	72.62%
78) 2,4,6-Tribromophenol	19.49	330	2662	1.89	ug/ml	2.52%
106) Terphenyl-d14	24.59	244	286763	33.75	ug/ml	67.50%
Target Compounds						Qvalue

ACID SURROGATES FAILED RE-EXTRACT 7-19-95 (MRC)

(#) = qualifier out of range (m) = manual integration
180858.D MASTER.M Wed Jul 19 21:21:47 1995 ENV

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-17RE

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-17RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: VOID Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180858R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180858RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

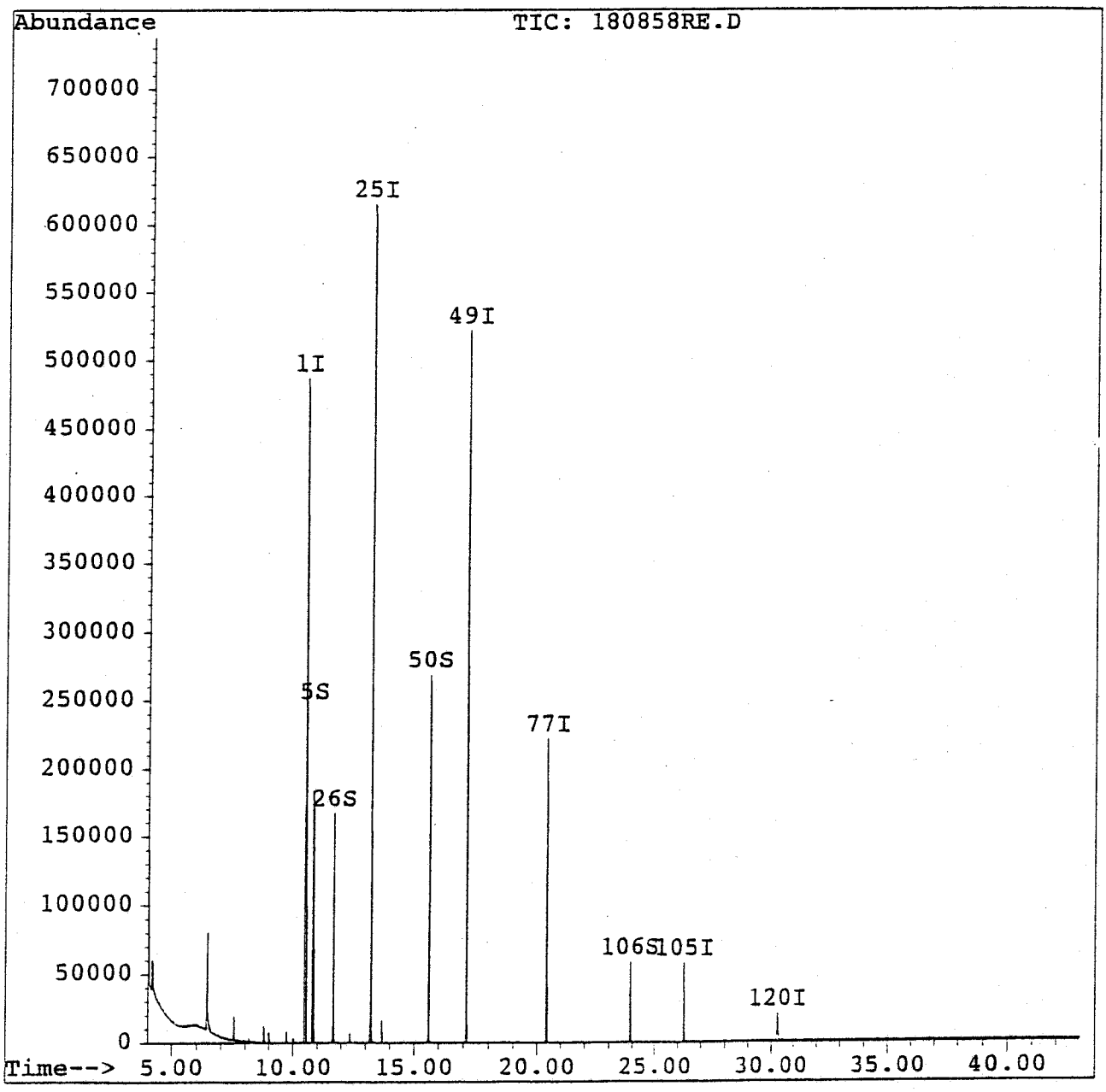
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\073195S\180858RE.D
Acq Time : 31 Jul 95 4:55 pm
Sample : MW-17RE [8270]
Misc : WATAUGA COUNTY RE-EXTRACT
Quant Time: Aug 3 11:59 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Thu Aug 03 11:49:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\073195S\180858RE.D
Acq Time : 31 Jul 95 4:55 pm
Sample : MW-17RE [8270]
Misc : WATAUGA COUNTY RE-EXTRACT
Quant Time: Aug 3 11:59 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Thu Aug 03 11:49:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.50	152	155350	50.00	ug/ml	0.00
25) Naphthalene-d8	13.23	136	501499	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.10	164	229050	50.00	ug/ml	-0.01
77) Phenanthrene-d10	20.40	188	152241	50.00	ug/ml	0.00
105) Chrysene-d12	26.26	240	44785	50.00	ug/ml	0.00
120) Perylene-d12	30.28	264	35649	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	0.00	112	0	0.00	ug/ml	0.00%
3) Phenol-d5	9.72	99	10660	1.92	ug/ml	2.56%
4) 2-Chlorophenol-d4	10.02	132	3781	1.22	ug/ml	1.63%
5) 1,2-Dichlorobenzene-d4	10.81	152	48422	17.47	ug/ml	34.94%
26) Nitrobenzene-d5	11.66	82	104050	22.83	ug/ml	45.67%
50) 2-Fluorobiphenyl	15.60	172	152156	25.62	ug/ml	51.25%
78) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/ml	0.00%
106) Terphenyl-d14	23.92	244	37264	35.12	ug/ml	70.24%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VOID

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TRIP BLANK VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180859S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180859.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

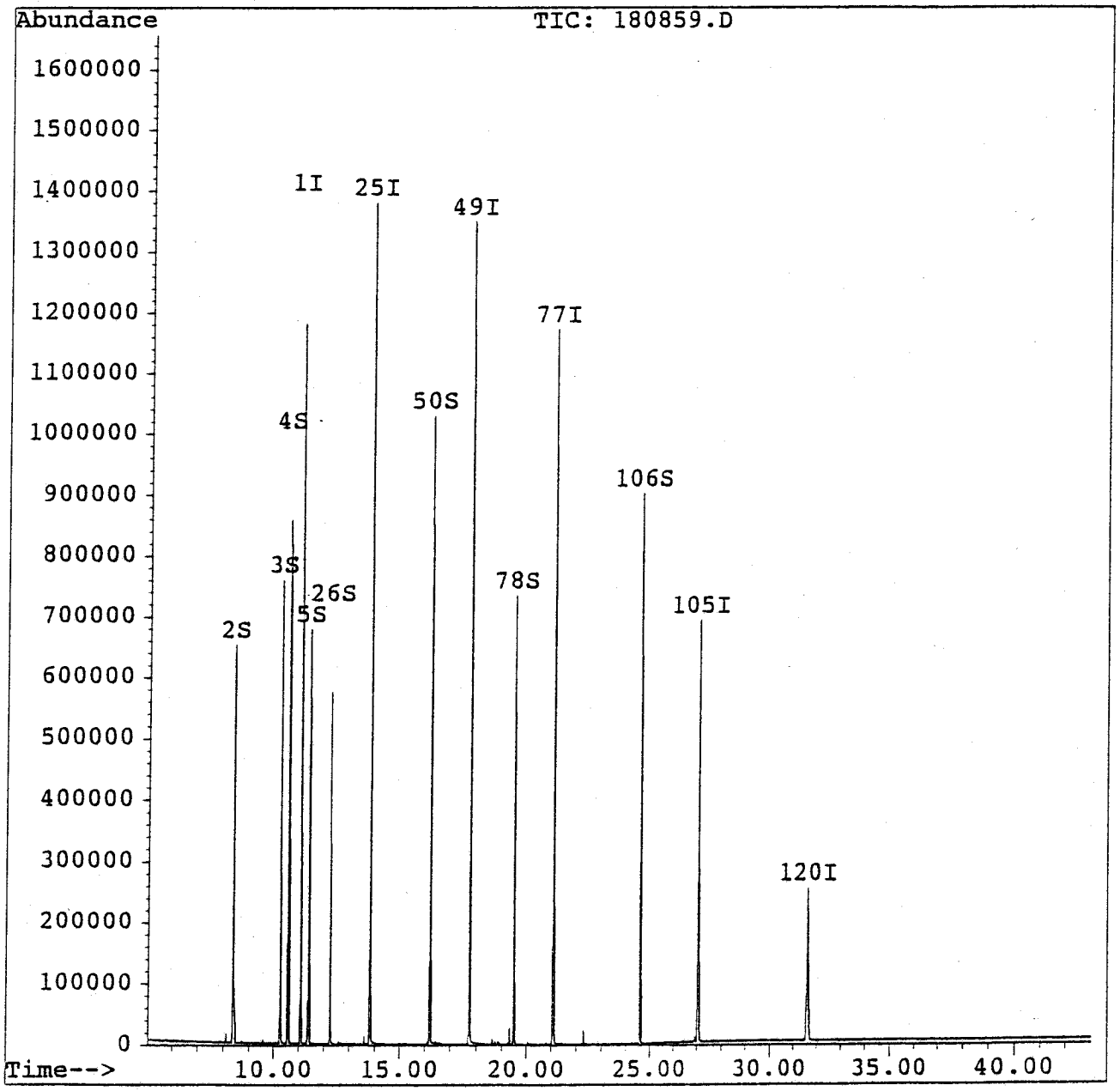
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180859.D
Acq Time : 18 Jul 95 6:25 pm
Sample : TRIP BLANK [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 21:07 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration



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Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180859.D
Acq Time : 18 Jul 95 6:25 pm
Sample : TRIP BLANK [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 21:07 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	423512	50.00	ug/ml	0.00
25) Naphthalene-d8	13.83	136	1453292	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.75	164	797803	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	1075885	50.00	ug/ml	0.00
105) Chrysene-d12	27.05	240	707468	50.00	ug/ml	-0.01
120) Perylene-d12	31.61	264	459673	50.00	ug/ml	0.00
System Monitoring Compounds						**%Recovery**
2) 2-Fluorophenol	8.39	112	434768	49.95	ug/ml	66.60%
3) Phenol-d5	10.28	99	529765	53.46	ug/ml	71.28%
4) 2-Chlorophenol-d4	10.59	132	541287	55.24	ug/ml	73.66%
5) 1,2-Dichlorobenzene-d4	11.40	152	221799	30.81	ug/ml	61.61%
26) Nitrobenzene-d5	12.25	82	320882	34.50	ug/ml	69.00%
50) 2-Fluorobiphenyl	16.21	172	704020	37.73	ug/ml	75.46%
78) 2,4,6-Tribromophenol	19.51	330	178110	61.93	ug/ml	82.58%
106) Terphenyl-d14	24.60	244	663583	36.20	ug/ml	72.41%
Target Compounds						**Qvalue**

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180880.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180880.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180880.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	44	B
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-02

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180880.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

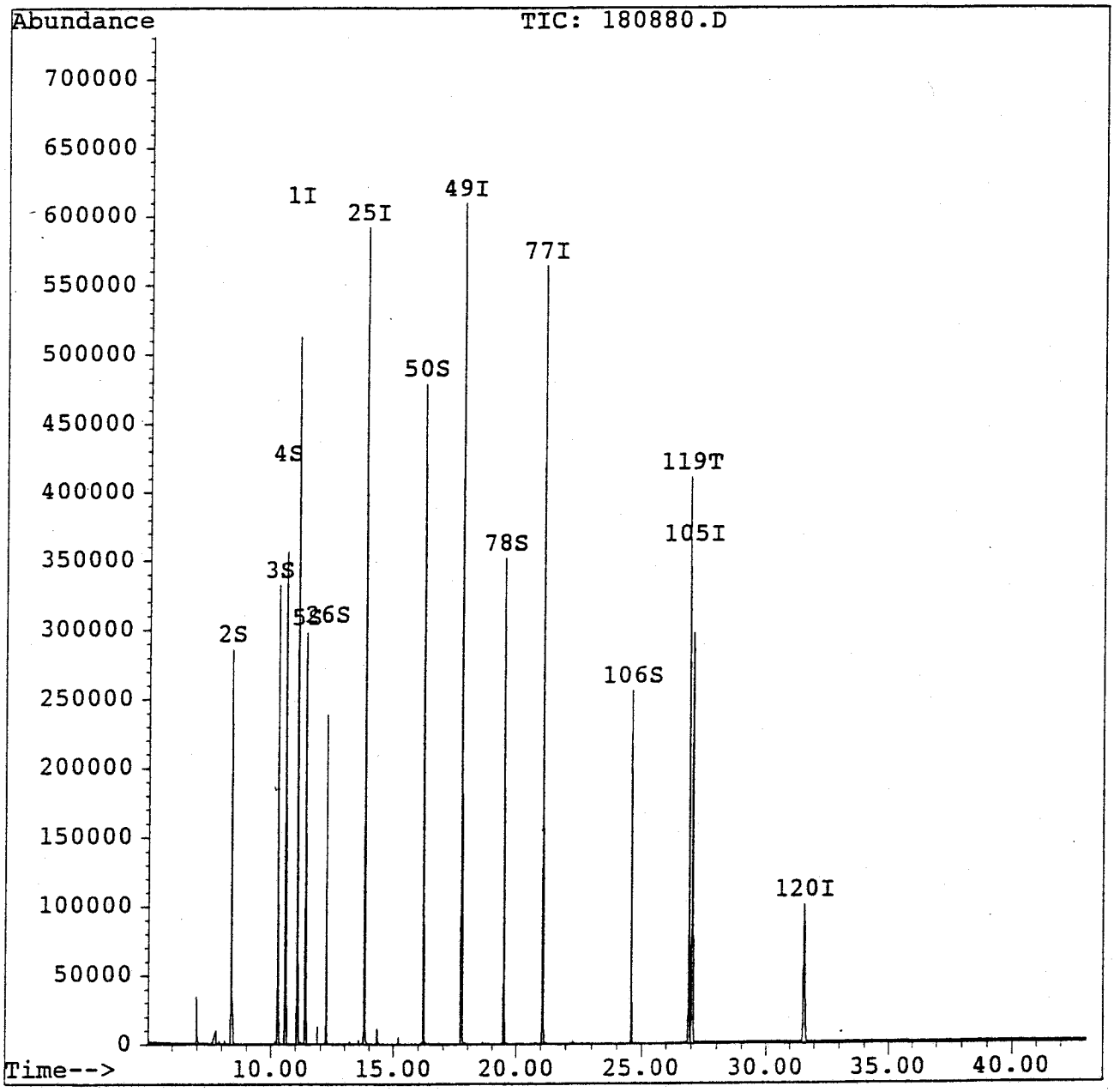
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180880.D
Acq Time : 20 Jul 95 2:23 am
Sample : MW-02 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 8:04 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



Quantitation Report

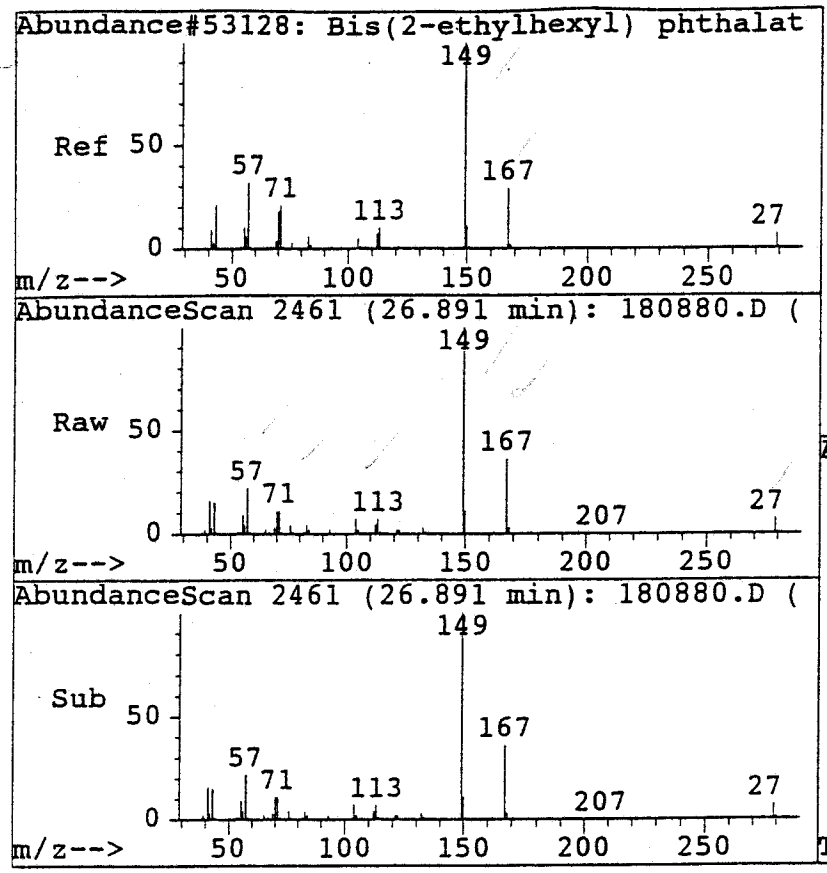
Data File : C:\HPCHEM\1\DATA\071995S\180880.D
Acq Time : 20 Jul 95 2:23 am
Sample : MW-02 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 8:04 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.06	152	188386	50.00	ug/ml	-0.01
25) Naphthalene-d8	13.81	136	644363	50.00	ug/ml	-0.02
49) Acenaphthene-d10	17.73	164	363321	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.07	188	500114	50.00	ug/ml	0.00
105) Chrysene-d12	27.03	240	304627	50.00	ug/ml	-0.02
120) Perylene-d12	31.58	264	194962	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	190376	49.05	ug/ml	65.41%
3) Phenol-d5	10.27	99	236826	52.81	ug/ml	70.41%
4) 2-Chlorophenol-d4	10.59	132	237535	53.82	ug/ml	71.76%
5) 1,2-Dichlorobenzene-d4	11.39	152	98356	30.78	ug/ml	61.55%
26) Nitrobenzene-d5	12.23	82	137604	32.77	ug/ml	65.53%
50) 2-Fluorobiphenyl	16.20	172	313229	34.37	ug/ml	68.73%
78) 2,4,6-Tribromophenol	19.49	330	85786	49.81	ug/ml	66.42%
106) Terphenyl-d14	24.58	244	195450	27.91	ug/ml	55.82%
Target Compounds						Qvalue
119) bis(2-Ethylhexyl)phthalate	26.89	149	286928	44.20	ug/ml	95

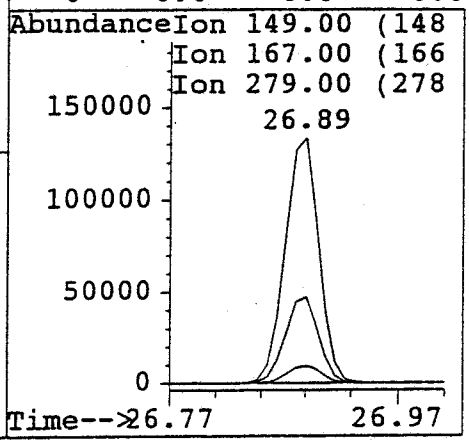
(#) = qualifier out of range (m) = manual integration



#119
bis(2-Ethylhexyl)phthalate
Concen: 44.20 ug/ml
RT: 26.89 min Scan# 2461
Delta R.T. -0.00 min
Lab File: 180880.D
Acq: 20 Jul 95 2:23 am

Tgt Ion:149 Resp: 286928

Ion	Ratio	Lower	Upper
149	100		
167	35.6	26.2	39.2
279	7.1	6.4	9.6
0	0.0	0.0	0.0



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-02RE

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180880R

Sample wt/vol: 990.0 (g/mL) ML Lab File ID: 180880RE.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/20/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/31/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

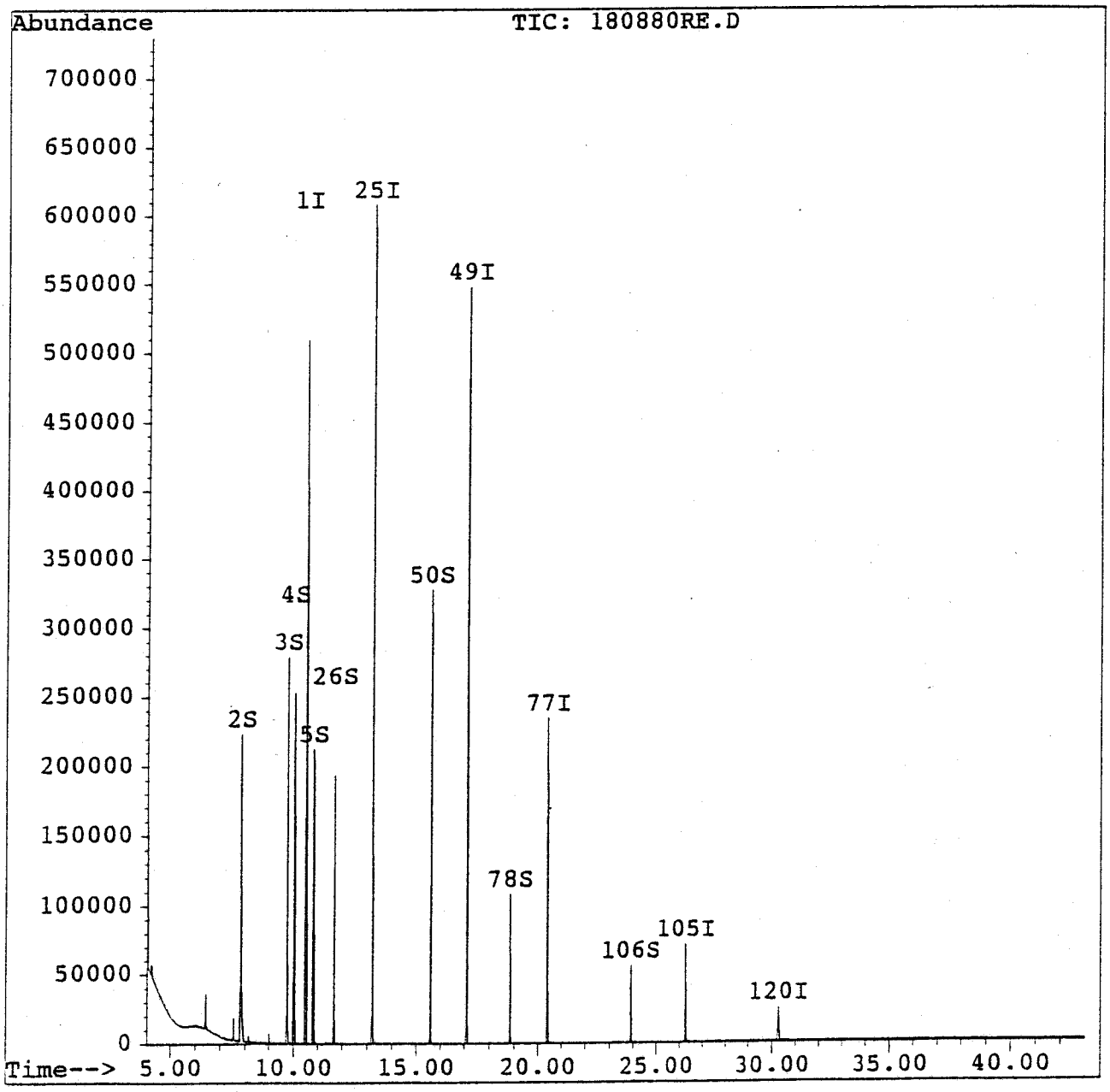
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\073195S\180880RE.D
Acq Time : 31 Jul 95 5:47 pm
Sample : MW-02RE [8270]
Misc : WATAUGA COUNTY RE-EXTRACT
Quant Time: Aug 3 12:02 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Thu Aug 03 11:49:36 1995
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\073195S\180880RE.D
Acq Time : 31 Jul 95 5:47 pm
Sample : MW-02RE [8270]
Misc : WATAUGA COUNTY RE-EXTRACT
Quant Time: Aug 3 12:02 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Thu Aug 03 11:49:36 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.50	152	153324	50.00	ug/ml	0.00
25) Naphthalene-d8	13.22	136	499139	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.10	164	234275	50.00	ug/ml	-0.01
77) Phenanthrene-d10	20.40	188	164289	50.00	ug/ml	0.00
105) Chrysene-d12	26.27	240	54197	50.00	ug/ml	0.00
120) Perylene-d12	30.28	264	43411	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	7.83	112	174157	42.58	ug/ml	56.77%
3) Phenol-d5	9.73	99	228653	41.68	ug/ml	55.57%
4) 2-Chlorophenol-d4	10.02	132	138785	45.54	ug/ml	60.72%
5) 1,2-Dichlorobenzene-d4	10.81	152	57898	21.17	ug/ml	42.33%
26) Nitrobenzene-d5	11.66	82	117567	25.92	ug/ml	51.84%
50) 2-Fluorobiphenyl	15.59	172	177799	29.28	ug/ml	58.55%
78) 2,4,6-Tribromophenol	18.84	330	17368	62.35	ug/ml	83.13%
106) Terphenyl-d14	23.92	244	38327	29.85	ug/ml	59.70%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-04

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180881S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180881.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	35	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VOA

MW-01MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

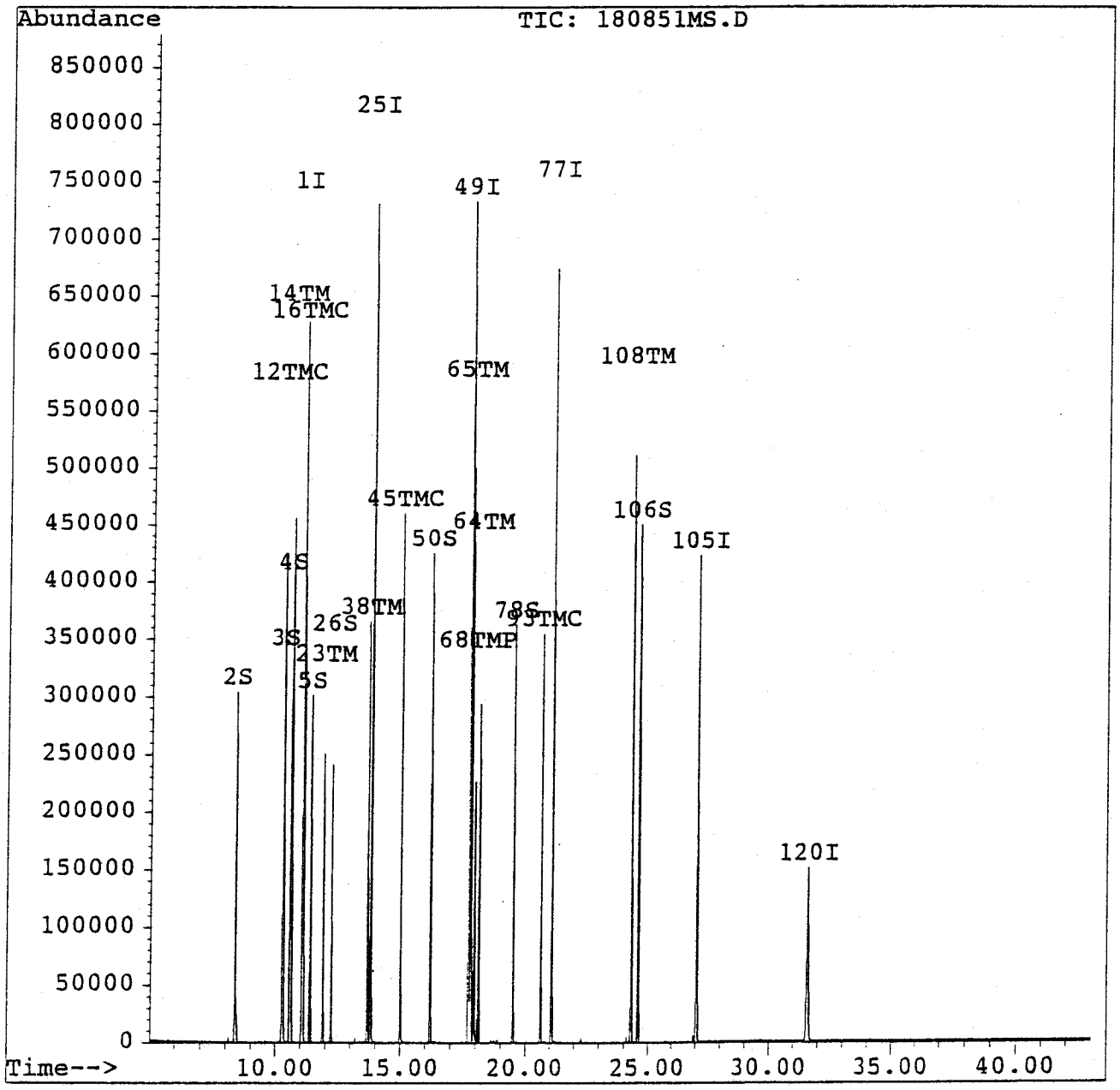
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180851MS.D
Acq Time : 19 Jul 95 3:23 pm
Sample : MW-01MS [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 22:08 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



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Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180851MS.D
Acq Time : 19 Jul 95 3:23 pm
Sample : MW-01MS [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 22:08 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	235681	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	802290	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.74	164	459551	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	626728	50.00	ug/ml	0.00
105) Chrysene-d12	27.05	240	448882	50.00	ug/ml	0.00
120) Perylene-d12	31.60	264	291777	50.00	ug/ml	0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	200476	41.29	ug/ml	55.05%
3) Phenol-d5	10.28	99	240644	42.89	ug/ml	57.19%
4) 2-Chlorophenol-d4	10.59	132	237576	43.03	ug/ml	57.37%
5) 1,2-Dichlorobenzene-d4	11.39	152	97971	24.50	ug/ml	49.01%
26) Nitrobenzene-d5	12.24	82	136337	26.07	ug/ml	52.15%
50) 2-Fluorobiphenyl	16.20	172	282648	25.65	ug/ml	51.30%
78) 2,4,6-Tribromophenol	19.49	330	89743	51.60	ug/ml	68.80%
106) Terphenyl-d14	24.59	244	336675	29.84	ug/ml	59.68%
Target Compounds						Qvalue
12) Phenol	10.31	94	237021	38.67	ug/ml#	91
14) 2-Chlorophenol	10.63	128	240900	39.93	ug/ml#	88
16) 1,4-Dichlorobenzene	11.11	146	179899	26.79	ug/ml	99
23) N-Nitroso-di-n-propylamine	11.91	70	84314	27.60	ug/ml	83
38) 1,2,4-Trichlorobenzene	13.68	180	158321	28.63	ug/ml	96
45) 4-Chloro-3-methylphenol	15.02	107	191991	40.10	ug/ml#	86
64) 2,4-Dinitrotoluene	18.13	165	142920	33.27	ug/ml#	64
65) Acenaphthene	17.81	153	271484	28.09	ug/ml	96
68) 4-Nitrophenol	17.96	109	61293	41.66	ug/ml#	72
93) Pentachlorophenol	20.63	266	98435	41.33	ug/ml	98
108) Pyrene	24.32	202	611570	35.26	ug/ml#	93

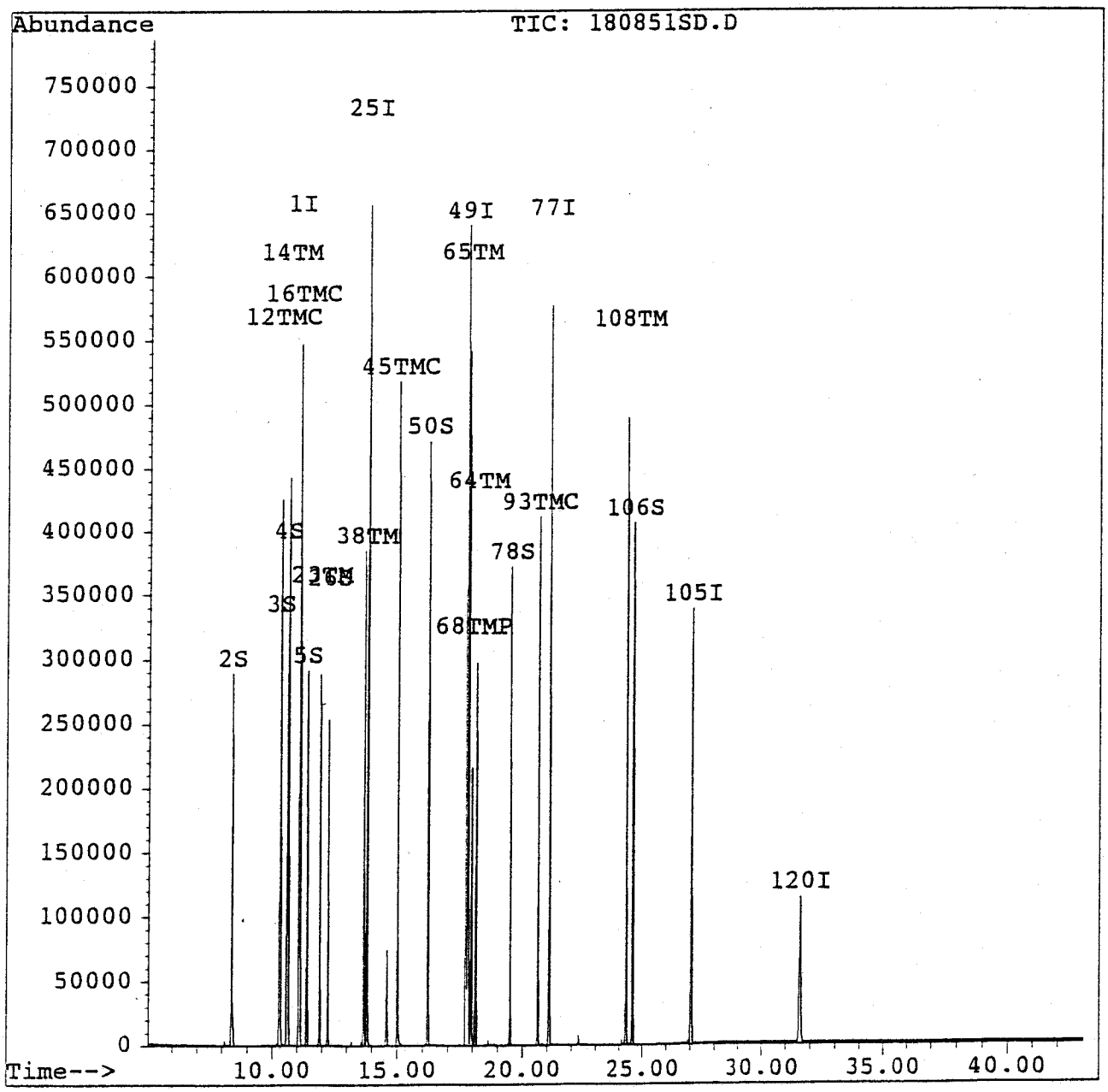
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180851SD.D
Acq Time : 19 Jul 95 4:15 pm
Sample : MW-01MSD [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 22:10 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



415

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180851SD.D
Acq Time : 19 Jul 95 4:15 pm
Sample : MW-01MSD [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 19 22:10 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	208626	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	710506	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.74	164	405596	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	537697	50.00	ug/ml	0.00
105) Chrysene-d12	27.04	240	364996	50.00	ug/ml	-0.02
120) Perylene-d12	31.59	264	219779	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	187001	43.51	ug/ml	58.01%
3) Phenol-d5	10.28	99	234944	47.30	ug/ml	63.07%
4) 2-Chlorophenol-d4	10.59	132	228806	46.81	ug/ml	62.42%
5) 1,2-Dichlorobenzene-d4	11.39	152	94740	26.77	ug/ml	53.54%
26) Nitrobenzene-d5	12.24	82	140916	30.43	ug/ml	60.86%
50) 2-Fluorobiphenyl	16.20	172	318422	32.74	ug/ml	65.47%
78) 2,4,6-Tribromophenol	19.49	330	90201	60.45	ug/ml	80.60%
106) Terphenyl-d14	24.59	244	309633	33.75	ug/ml	67.50%
Target Compounds						Qvalue
12) Phenol	10.31	94	238072	43.88	ug/ml#	90
14) 2-Chlorophenol	10.62	128	237852	44.54	ug/ml#	87
16) 1,4-Dichlorobenzene	11.11	146	176510	29.69	ug/ml	97
23) N-Nitroso-di-n-propylamine	11.91	70	98859	36.56	ug/ml#	80
38) 1,2,4-Trichlorobenzene	13.68	180	162834	33.25	ug/ml	96
45) 4-Chloro-3-methylphenol	15.02	107	216539	51.07	ug/ml#	87
64) 2,4-Dinitrotoluene	18.13	165	141281	37.27	ug/ml#	64
65) Acenaphthene	17.81	153	308324	36.15	ug/ml	96
68) 4-Nitrophenol	17.96	109	59836	46.08	ug/ml#	69
93) Pentachlorophenol	20.63	266	112393	55.01	ug/ml	97
108) Pyrene	24.32	202	578575	41.03	ug/ml#	93

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	44	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	45	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	37	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	51	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	37	
83-32-9	Acenaphthene	36	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	46	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	41	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

VOID

MW-01MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	42	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	46	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	46	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	45	
83-32-9	Acenaphthene	45	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	55	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	51	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-09MS

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

VOID

Matrix: (soil/water) WATER Lab Sample ID: 180882MS

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882MS.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

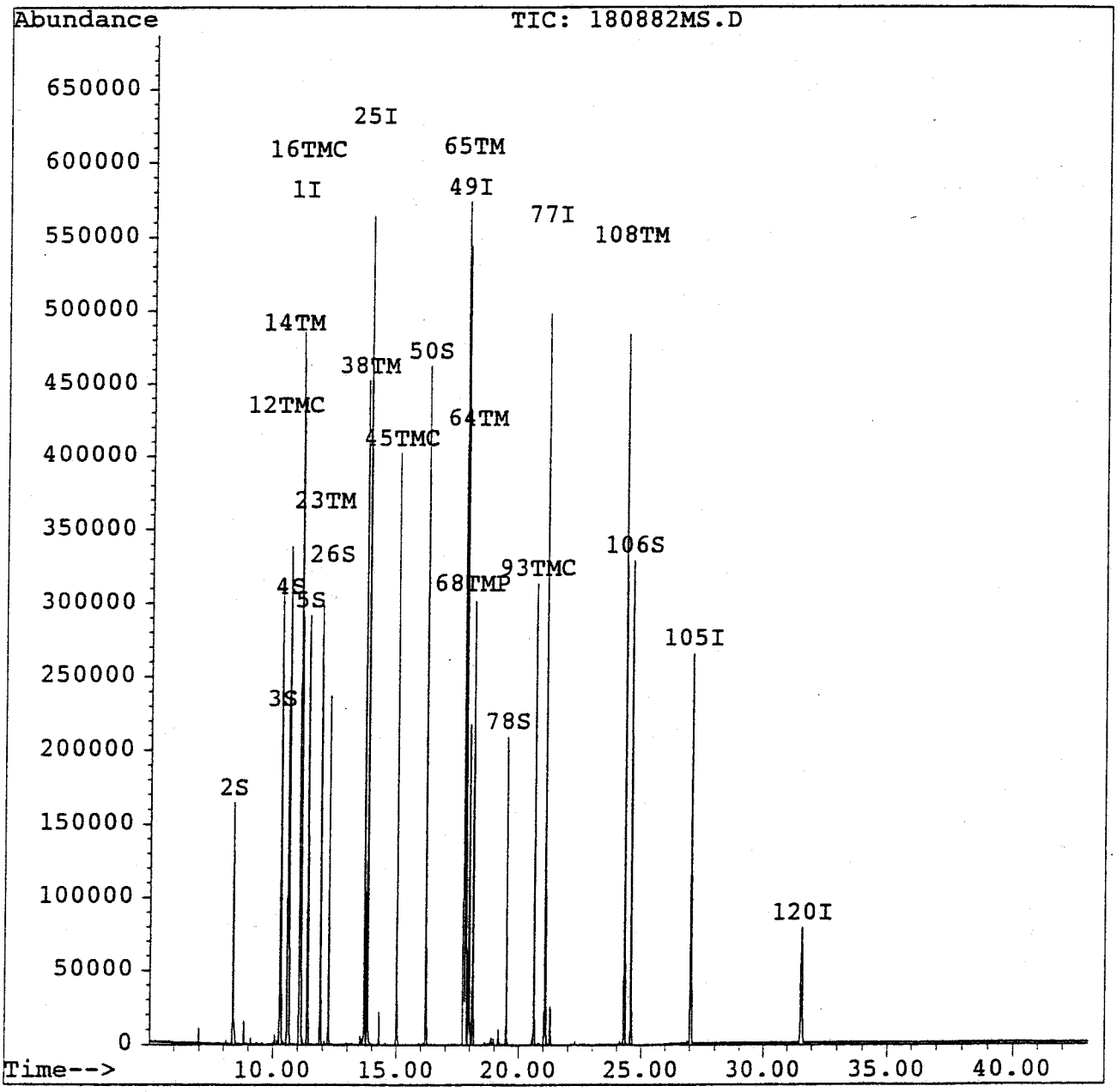
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180882MS.D
Acq Time : 20 Jul 95 5:01 am
Sample : MW-09MS [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 9:00 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



425

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180882MS.D
Acq Time : 20 Jul 95 5:01 am
Sample : MW-09MS [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 9:00 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.06	152	175468	50.00	ug/ml	-0.01
25) Naphthalene-d8	13.82	136	596771	50.00	ug/ml	-0.01
49) Acenaphthene-d10	17.73	164	343757	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.08	188	449368	50.00	ug/ml	0.00
105) Chrysene-d12	27.04	240	276966	50.00	ug/ml	-0.02
120) Perylene-d12	31.58	264	153721	50.00	ug/ml	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	111922	30.96	ug/ml	41.28%
3) Phenol-d5	10.27	99	148928	35.65	ug/ml	47.54%
4) 2-Chlorophenol-d4	10.59	132	160617	39.07	ug/ml	52.10%
5) 1,2-Dichlorobenzene-d4	11.39	152	95237	31.99	ug/ml	63.99%
26) Nitrobenzene-d5	12.24	82	139382	35.84	ug/ml	71.67%
50) 2-Fluorobiphenyl	16.20	172	308007	37.36	ug/ml	74.73%
78) 2,4,6-Tribromophenol	19.49	330	54277	43.52	ug/ml	58.03%
106) Terphenyl-d14	24.58	244	240062	34.48	ug/ml	68.96%
Target Compounds						Qvalue
12) Phenol	10.30	94	173631	38.05	ug/ml#	87
14) 2-Chlorophenol	10.62	128	190010	42.31	ug/ml#	86
16) 1,4-Dichlorobenzene	11.10	146	202547	40.51	ug/ml	99
23) N-Nitroso-di-n-propylamine	11.90	70	105400	46.34	ug/ml	83
38) 1,2,4-Trichlorobenzene	13.68	180	178164	43.31	ug/ml	95
45) 4-Chloro-3-methylphenol	15.01	107	162570	45.65	ug/ml#	87
64) 2,4-Dinitrotoluene	18.13	165	144068	44.84	ug/ml#	66
65) Acenaphthene	17.80	153	325634	45.05	ug/ml	96
68) 4-Nitrophenol	17.96	109	60624	55.09	ug/ml#	72
93) Pentachlorophenol	20.62	266	87659	51.34	ug/ml	98
108) Pyrene	24.31	202	541254	50.58	ug/ml#	93

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

VOID

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	38	
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	41	
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	47	
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	49	
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	48	
83-32-9	Acenaphthene	47	
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	61	
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	52	
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-09MSD

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180882SD

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180882SD.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/17/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/20/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

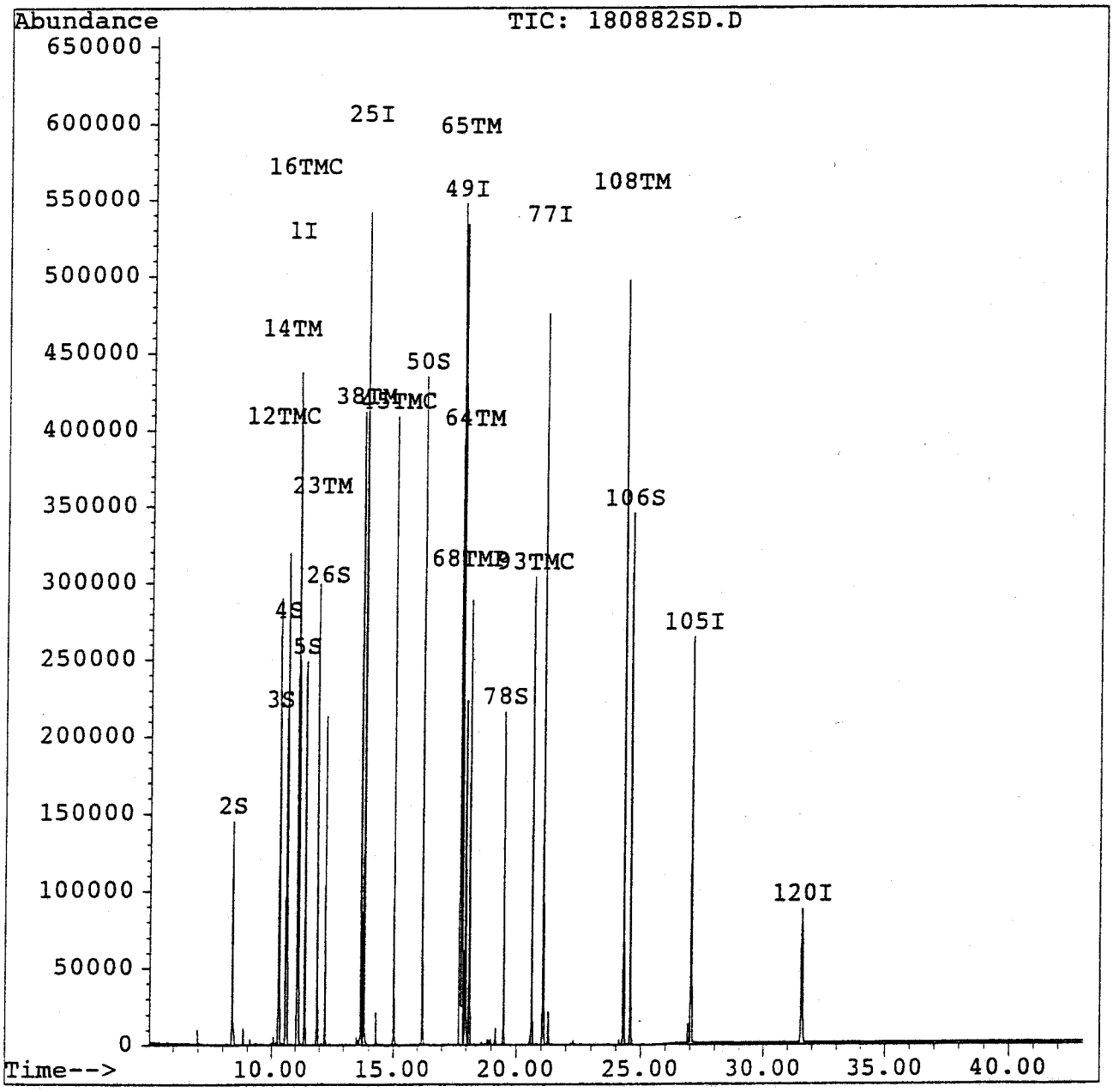
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180882SD.D
Acq Time : 20 Jul 95 5:53 am
Sample : MW-09MSD [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 9:01 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration



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Quantitation Report

Data File : C:\HPCHEM\1\DATA\071995S\180882SD.D
Acq Time : 20 Jul 95 5:53 am
Sample : MW-09MSD [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 20 9:01 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Jul 19 13:37:40 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.06	152	165190	50.00	ug/ml	-0.01
25) Naphthalene-d8	13.82	136	559855	50.00	ug/ml	-0.01
49) Acenaphthene-d10	17.73	164	320825	50.00	ug/ml	-0.01
77) Phenanthrene-d10	21.07	188	432965	50.00	ug/ml	-0.02
105) Chrysene-d12	27.04	240	279742	50.00	ug/ml	-0.02
120) Perylene-d12	31.58	264	171746	50.00	ug/ml	-0.01
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	99752	29.31	ug/ml	39.08%
3) Phenol-d5	10.27	99	137674	35.01	ug/ml	46.68%
4) 2-Chlorophenol-d4	10.59	132	146065	37.74	ug/ml	50.32%
5) 1,2-Dichlorobenzene-d4	11.39	152	82771	29.54	ug/ml	59.07%
26) Nitrobenzene-d5	12.23	82	123487	33.84	ug/ml	67.69%
50) 2-Fluorobiphenyl	16.20	172	289360	37.61	ug/ml	75.22%
78) 2,4,6-Tribromophenol	19.49	330	54423	45.29	ug/ml	60.39%
106) Terphenyl-d14	24.58	244	253726	36.08	ug/ml	72.17%
Target Compounds						Qvalue
12) Phenol	10.30	94	163840	38.14	ug/ml#	87
14) 2-Chlorophenol	10.62	128	173981	41.15	ug/ml#	87
16) 1,4-Dichlorobenzene	11.10	146	180005	38.24	ug/ml	98
23) N-Nitroso-di-n-propylamine	11.90	70	100084	46.74	ug/ml	83
38) 1,2,4-Trichlorobenzene	13.68	180	165681	42.93	ug/ml	96
45) 4-Chloro-3-methylphenol	15.01	107	164536	49.24	ug/ml#	89
64) 2,4-Dinitrotoluene	18.13	165	143647	47.90	ug/ml#	61
65) Acenaphthene	17.81	153	318824	47.26	ug/ml	96
68) 4-Nitrophenol	17.96	109	62403	60.76	ug/ml#	71
93) Pentachlorophenol	20.62	266	84576	51.41	ug/ml	98
108) Pyrene	24.31	202	566047	52.37	ug/ml#	92

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

SECTION 4.4

SW-846 SEMI-VOLATILES ANALYTICAL DATA

Data Package - Semivolatile Organics - EPA 8270

- Narrative and Additional Documentation
- QC Summary
- Sample Data
- Standards Data
- Raw QC Data

VALIDATED
12-7-95

Watauga County Landfill
Watauga County, North Carolina
1st Semi-Annual Assessment Monitoring
SDG #180851

Narrative and Additional Documentation

- Narrative
- Method QC and MDL Data
- Sample Receipt Records
- Sample Extraction Record
- Sample Analysis Record

Watauga County Landfill
Watauga County, North Carolina
1st Semi-Annual Assessment Monitoring
SDG #180851

WATAUGA COUNTY LANDFILL / DRAPER ADEN ASSOCIATES

CASE NARRATIVE

Laboratory Name: ETS Analytical Services, Inc., Roanoke, VA.

Project Number: 6520-21

Landfill: Watauga County Landfill - Watauga County, NC
1st Semi-annual Assessment Monitoring

Sample Receipt Information: (See enclosed sample receipt record)

Sample Preparation Method: EPA 3520 (See enclosed sample preparation log)

Sample Analysis Method: EPA 8270

LOD/LOQ: Please see enclosed

Instrument Identification: HP 5971 GC/MS/DS

Instrument Parameters:
Column: 0.25mm x 30M DB-5 (0.5u) FSCC
Temperature Program: 40C/2 program 12C/min to 310C
Mode: Full scan electron impact. Total scan time 400msec.

Analytical Comments:
Problems have been encountered attaining the program-specific calibration criteria for all of the analytes, particularly those for the more polar and labile analytes (phenylenediamine, naphthylamines, benzidines). In an effort to minimize this problem, calibration is conducted in six mixtures. The calibration data files are designated nSSTDmm, where n is the designator of the mixture and mm is the sequential number of the continuing calibration, starting with the initial calibration. A table of the analytes is attached, designating the mixture number (from the manufacturer's designation) for each. Because of continuing problems in the analysis of Kepone, this compound is calibrated separately.

Low recoveries of acid surrogates were observed in the analysis of sample MW-17. Low recoveries of 2-fluorophenol and 2-chlorophenol-d4 were also observed in the analysis of sample MW-09 (but not for MW-09MS and MW-09MSD). Reextraction and renalysis of these two samples showed similar results, so the problem is attributed to the sample matrix.

Lab blank 8 (SBLK08) showed contamination with bis(2-ethylhexyl) phthalate; samples MW-2 and MW-4 were also contaminated. These samples were reextracted (after the holding time had expired) and reanalyzed; bis(2-ethylhexyl) phthalate was not detected in the reextracted samples, so the problem was attributed to random laboratory contamination.

The second calibration run on 7/19/95 had a high %D for di-n-octyl phthalate. Samples MW-2, MW-4, and MW-9 required reextraction (as explained in the preceeding paragraphs); sample MW-12 was also reanalyzed on 7/31/95. Since the reanalyzed samples were only being for surrogates and phthalates, a complete calibration for the full list of analytes was not conducted on 7/31/95 - this continuing calibration was conducted only for the affected parameters.

No other problems were encountered with the analyses.

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

Richard R. Whitney, Ph.D.
Organics Laboratory Manager

8/10/95
Date

Appendix 5.1 Compound List

		MIX							
NO.	COMPOUND NAME	1	3	7	8	9	IS	SS	MS
1	1,4-Dichlorobenzene-d4	X	X	X	X	X	X		
2	2-Fluorophenol	X						X	
3	Phenol-d5	X						X	
4	2-Chlorophenol-d4	X						X	
5	1,2-Dichlorobenzene-d4	X						X	
6	N-Nitrosodimethylamine	X							
7	N-Nitrosomethylethylamine				X				
8	Methyl methanesolfonate	X							
9	N-Nitrosodiethylamine				X				
10	Ethyl methanesulfonate	X							
11	Phenol	X							X
12	bis(2-Chloroethyl)ether	X							
13	2-Chlorophenol	X							X
14	1,3-Dichlorobenzene	X							
15	1,4-Dichlorobenzene	X							X
16	1,2-Dichlorobenzene	X							
17	Benzyl alcohol	X							
18	2-Methylphenol	X							
19	3 & 4-methylphenol	X							
20	bis(2-Chloroisopropyl)ether	X							
21	N-Nitrosopyrrolidine				X				
22	N-Nitroso-di-n-propylamine	X							X
23	Hexachloroethane	X							
24	Napthalene-d8	X	X	X	X	X	X		
25	Nitrobenzene-d5	X						X	
26	Acetophenone		X						
27	0-Toluidine				X				
28	Nitrobenzene	X							
29	N-Nitrosopiperidine		X						
30	Isophorone	X							
31	2-Nitrophenol	X							
32	2,4-Dimethylphenol	X							
33	O,O,O-Triethyl phosphorothioate					X			
34	bis(2-Chloroethoxy)methane	X							
35	2,4-Dichlorophenol	X							
36	2,6-Dichlorophenol	X							
37	1,2,4-Trichlorobenzene	X							X
38	Naphthalene	X							
39	4-Chloroaniline	X							
40	Hexachloropropene					X			
41	Hexachlorobutadiene	X							
42	N-Nitrosodibutylamine		X						
43	1,4-Benzenediamine				X				
44	4-Chloro-3-methylphenol	X							X
45	Isosafrole					X			

		MIX							
NO.	COMPOUND NAME	1	3	7	8	9	IS	SS	MS
46	Safrole					X			
47	2-Methylnaphthalene	X							
48	Acenaphthene-d10	X	X	X	X	X	X		
49	2-Fluorobiphenyl	X						X	
50	Hexachlorocyclopentadiene	X							
51	1,2,4,5-Tetrachlorobenzene		X						
52	2,4,6-Trichlorophenol	X							
53	2,4,5-Trichlorophenol	X							
54	2-Chloronaphthalene	X							
55	2-Nitroaniline	X							
56	3-Nitroaniline	X							
57	4-Nitroaniline	X							
58	1,4-Naphthoquinone					X			
59	1,3-Dinitrobenzene					X			
60	Acenaphthylene	X							
61	Dimethylphthalate	X							
62	2,6-Dinitrotoluene	X							
63	2,4-Dinitrotoluene	X							X
64	Acenaphthene	X							X
65	2,4-Dinitrophenol	X							
66	Dibenzofuran	X							
67	4-Nitrophenol	X							X
68	Pentachlorobenzene		X						
69	1-Naphthylamine		X						
70	2-Naphthylamine		X						
71	Thionazin			X					
72	5-Nitroso-o-toluidine				X				
73	Fluorene	X							
74	4-Chlorophenyl-phenylether	X							
75	Diethylphthalate	X							
76	Phenanthrene-d10	X	X	X	X	X	X		
77	2,4,6-Tribromophenol	X						X	
78	2,3,4,6-Tetrachlorophenol	X							
79	4,6-Dinitro-2-methylphenol	X							
80	Diphenylamine		X						
81	1,3,5-Trinitrobenzene	X							
82	trans-Diallate			X					
83	cis-Diallate			X					
84	Phorate			X					
85	Phenacetin		X						
86	4-Bromophenyl-phenylether	X							
87	Hexachlorobenzene	X							
88	Dimethoate			X					
89	4-Aminobiphenyl		X						
90	Pentachlorophenol	X							X

		MIX							
NO.	COMPOUND NAME	1	3	7	8	9	IS	SS	MS
91	Pentachloronitrobenzene		X						
92	Pronamide		X						
93	Disulfoton			X					
94	Phenanthrene	X							
95	Anthracene	X							
96	Methyl parathion			X					
97	Di-n-butylphthalate	X							
98	Parathion			X					
99	Fluoranthene	X							
100	Methapyrilene					X			
101	Isodrin					X			
102	Chrysene-d12	X	X	X	X	X	X		
103	Terphenyl-d14	X						X	
104	Pyrene	X							X
105	Dimethylaminoazobenzene		X						
106	Chlorobenzilate			X					
107	Famphur			X					
108	3,3'-Dimethylbenzidine				X				
109	Butylbenzylphthalate	X							
110	Kepone			X					
111	2-Acetylaminofluorene					X			
112	3,3'-Dichlorobenzidine		X						
113	Benzo[a]anthracene	X							
114	Chrysene	X							
115	bis(2-Ethylhexyl)phthalate	X							
116	Perylene-d12	X	X	X	X	X	X		
117	Di-n-octylphthalate	X							
118	7,12-Dimethylbenz(a)anthracene		X						
119	Benzo[b]fluoranthene	X							
120	Benzo[k]fluoranthene	X							
121	Benzo[a]pyrene	X							
122	3-Methylcholanthrene		X						
123	Indeno[1,2,3-cd]pyrene	X							
124	Dibenz[a,h]anthracene	X							
125	Benzo(g,h,i)perylene	X							

IS = INTERNAL STANDARD
SS = SURROGATE SPIKE COMPOUND
MS = MATRIX SPIKE COMPOUND

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Compound Name	SPIKE AMNT	RUN 01	RUN 01 % REC.	RUN 02	RUN 02 % REC.	RUN 03	RUN 03 % REC.	RUN 04	RUN04 % REC.	MEAN % REC. (X)	STD DEV % REC. (S)
N-Nitrosodimethylamine	100	61.25	61.25	63.18	63.18	63.89	63.89	69.05	69.05	64.34	3.33
N-Nitrosomethylethylamine	100	86.25	86.25	90.60	90.60	85.42	85.42	87.89	87.89	87.54	2.29
Methyl methanesolfonate	100	64.75	64.75	63.18	63.18	67.20	67.20	59.88	59.88	63.76	3.07
N-Nitrosodiethylamine	100	75.95	75.95	78.55	78.55	74.73	74.73	77.78	77.78	76.75	1.73
Ethyl methanesulfonate	100	77.68	77.68	73.35	73.35	77.40	77.40	75.53	75.53	75.99	2.00
Phenol	100	75.53	75.53	76.22	76.22	76.17	76.17	76.34	76.34	76.07	0.36
bis(2-Chloroethyl)ether	100	70.24	70.24	70.62	70.62	70.06	70.06	72.25	72.25	70.79	1.00
2-Chlorophenol	100	76.27	76.27	76.25	76.25	76.43	76.43	76.48	76.48	76.36	0.11
1,3-Dichlorobenzene	100	54.05	54.05	51.77	51.77	54.60	54.60	55.97	55.97	54.10	1.75
1,4-Dichlorobenzene	100	60.70	60.70	59.11	59.11	61.39	61.39	63.39	63.39	61.15	1.77
1,2-Dichlorobenzene	100	55.71	55.71	55.22	55.22	58.55	58.55	58.70	58.70	57.05	1.84
Benzyl alcohol	100	70.56	70.56	70.95	70.95	72.01	72.01	70.68	70.68	71.05	0.66
2-Methylphenol	100	68.28	68.28	67.14	67.14	67.74	67.74	68.60	68.60	67.94	0.64
3 & 4-Methylphenol	100	69.51	69.51	69.00	69.00	69.84	69.84	71.62	71.62	69.99	1.14
bis(2-Chloroisopropyl)ether	100	36.94	36.94	27.72	27.72	36.28	36.28	35.97	35.97	34.23	4.36
N-Nitrosopyrrolidine	100	87.69	87.69	88.92	88.92	85.48	85.48	90.34	90.34	88.11	2.06
N-Nitroso-di-n-propylamine	100	78.57	78.57	78.94	78.94	78.94	78.94	79.63	79.63	79.02	0.44
Hexachloroethane	100	52.22	52.22	51.10	51.10	54.99	54.99	53.43	53.43	52.93	1.67
Acetophenone	100	78.51	78.51	81.68	81.68	85.03	85.03	83.00	83.00	82.06	2.73
0-Toluidine	100	80.16	80.16	83.49	83.49	77.76	77.76	79.95	79.95	80.34	2.36
Nitrobenzene	100	75.20	75.20	73.27	73.27	73.88	73.88	73.64	73.64	74.00	0.84
N-Nitrosopiperidine	100	75.84	75.84	84.34	84.34	85.88	85.88	82.67	82.67	82.18	4.43
Isophorone	100	77.90	77.90	76.59	76.59	76.45	76.45	75.81	75.81	76.69	0.88
2-Nitrophenol	100	72.23	72.23	69.39	69.39	70.21	70.21	71.00	71.00	70.71	1.21
2,4-Dimethylphenol	100	25.09	25.09	22.74	22.74	23.55	23.55	25.12	25.12	24.13	1.18
O,O,O-Triethyl phosphorothioate	100	0.00	0.00	86.22	86.22	81.01	81.01	79.56	79.56	61.70	41.23
bis(2-Chloroethoxy)methane	100	76.71	76.71	74.12	74.12	74.98	74.98	75.08	75.08	75.22	1.08
2,4-Dichlorophenol	100	72.91	72.91	73.08	73.08	73.52	73.52	72.49	72.49	73.00	0.43
2,6-Dichlorophenol	100	91.27	91.27	82.85	82.85	83.84	83.84	83.02	83.02	85.25	4.04
1,2,4-Trichlorobenzene	100	89.39	89.39	81.94	81.94	85.28	85.28	83.92	83.92	85.13	3.15
Naphthalene	100	69.00	69.00	67.17	67.17	70.52	70.52	67.64	67.64	68.58	1.51

Compound Name	SPIKE AMNT	RUN 01	RUN 01 % REC.	RUN 02	RUN 02 % REC.	RUN 03	RUN 03 % REC.	RUN 04	RUN04 % REC.	MEAN % REC. (X)	STD DEV % REC. (S)
4-Chloroaniline	100	42.10	42.10	47.32	47.32	45.02	45.02	47.26	47.26	45.42	2.46
Hexachloropropene	100	46.43	46.43	45.75	45.75	44.34	44.34	43.74	43.74	45.07	1.24
Hexachlorobutadiene	100	63.02	63.02	63.95	63.95	69.04	69.04	62.92	62.92	64.73	2.91
N-Nitrosodibutylamine	100	97.26	97.26	93.35	93.35	94.39	94.39	93.31	93.31	94.58	1.86
1,4-Benzenediamine	100	43.09	43.09	114.18	114.18	73.31	73.31	142.63	142.63	93.30	43.93
4-Chloro-3-methylphenol	100	83.94	83.94	81.20	81.20	82.74	82.74	82.73	82.73	82.66	1.12
Isosafrole	100	82.35	82.35	86.34	86.34	81.29	81.29	79.57	79.57	82.39	2.87
Safrole	100	81.95	81.95	85.21	85.21	79.97	79.97	80.64	80.64	81.94	2.33
2-Methylnaphthalene	100	71.80	71.80	70.55	70.55	72.11	72.11	70.13	70.13	71.15	0.96
Hexachlorocyclopentadiene	100	22.52	22.52	30.96	30.96	29.89	29.89	24.61	24.61	26.99	4.08
1,2,4,5-Tetrachlorobenzene	100	82.61	82.61	82.61	82.61	84.15	84.15	79.25	79.25	82.16	2.07
2,4,6-Trichl rophenol	100	74.74	74.74	73.08	73.08	74.63	74.63	74.84	74.84	74.32	0.83
2,4,5-Trichlorophenol	100	75.24	75.24	73.43	73.43	75.00	75.00	74.50	74.50	74.54	0.80
2-Chloronaphthalene	100	60.61	60.61	59.03	59.03	60.39	60.39	59.69	59.69	59.93	0.71
2-Nitroaniline	100	72.31	72.31	72.08	72.08	72.59	72.59	71.59	71.59	72.14	0.42
3-Nitroaniline	100	58.64	58.64	61.46	61.46	61.82	61.82	63.60	63.60	61.38	2.05
4-Nitroaniline	100	32.00	32.00	41.52	41.52	40.32	40.32	35.54	35.54	37.35	4.40
1,4-Naphthoquinone	100	20.20	20.20	17.75	17.75	22.50	22.50	20.32	20.32	20.19	1.94
1,3-Dinitrobenzene	100	92.61	92.61	98.54	98.54	89.70	89.70	92.18	92.18	93.26	3.75
Acenaphthylene	100	72.26	72.26	72.83	72.83	72.98	72.98	72.47	72.47	72.64	0.33
Dimethylphthalate	100	59.52	59.52	57.22	57.22	59.76	59.76	54.90	54.90	57.85	2.27
2,6-Dinitrotoluene	100	76.41	76.41	75.91	75.91	76.67	76.67	76.15	76.15	76.28	0.33
2,4-Dinitrotoluene	100	81.94	81.94	79.44	79.44	81.21	81.21	80.35	80.35	80.73	1.08
Acenaphthene	100	77.44	77.44	76.42	76.42	78.76	78.76	76.37	76.37	77.25	1.12
2,4-Dinitrophenol	100	83.88	83.88	87.18	87.18	90.62	90.62	88.34	88.34	87.51	2.80
Dibenzofuran	100	76.94	76.94	74.43	74.43	75.90	75.90	74.62	74.62	75.47	1.17
4-Nitrophenol	100	70.01	70.01	79.98	79.98	71.00	71.00	80.66	80.66	75.41	5.69
Pentachlorobenzene	100	96.76	96.76	97.83	97.83	93.14	93.14	83.44	83.44	92.79	6.55
1-Naphthylamine	100	104.02	104.02	104.98	104.98	90.65	90.65	93.87	93.87	98.38	7.20
2-Naphthylamine	100	87.36	87.36	90.78	90.78	70.14	70.14	81.06	81.06	82.33	9.07
Thionazin	100	54.26	54.26	61.70	61.70	71.06	71.06	64.13	64.13	62.79	6.93

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COMPOUND NAME	SPIKE AMOUNT	MEAN % REC.	STD DEV	RSD	LOD	LOQ	RepL	MCL	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
N-Nitrosodimethylamine	10	49	0.68	13.9	2.05	6.8	10		4.26	3.93	5.39	5.02	5.83	5.39	4.63
Pyridine	10	22	0.63	28.5	1.90	6.3	10		2.56	2.83	2.27	3.02	2.07	1.50	1.36
N-Nitrosomethylethylamine	10	50	0.61	12.2	1.83	6.1	10		4.37	4.44	5.26	5.51	5.58	5.58	4.28
Methyl methanesolfonate	10	64	0.76	11.8	2.28	7.6	10		5.36	6.23	6.79	6.39	7.35	7.25	5.63
N-Nitrosodiethylamine	10	66	0.70	10.6	2.09	7.0	10		5.68	6.32	6.64	6.53	7.54	7.40	5.91
Ethyl methanesulfonate	10	71	0.55	7.9	1.66	5.5	10		6.14	6.60	7.28	7.29	7.73	7.48	6.85
Phenol	10	74	0.63	8.4	1.88	6.3	10		6.58	7.13	7.29	7.87	8.15	8.10	6.83
bis(2-Chloroethyl)ether	10	80	0.65	8.2	1.96	6.5	10		7.03	7.72	7.88	8.22	8.69	8.90	7.55
2-Chlorophenol	10	72	0.50	7.0	1.50	5.0	10		6.44	6.97	7.06	7.40	7.66	7.83	6.73
1,3-Dichlorobenzene	10	69	0.54	7.8	1.62	5.4	10		6.23	6.62	6.83	7.19	7.49	7.73	6.56
1,4-Dichlorobenzene	10	73	0.54	7.4	1.63	5.4	10		6.43	7.22	7.32	7.38	7.86	8.13	7.09
1,2-Dichlorobenzene	10	72	0.52	7.3	1.57	5.2	10		6.42	6.91	7.10	7.60	7.67	7.80	6.75
Benzyl alcohol	10	70	0.50	7.0	1.49	5.0	10		6.20	7.02	7.17	6.93	7.69	7.54	6.76
2-Methylphenol	10	73	0.60	8.2	1.79	6.0	10		6.23	7.24	7.20	7.66	7.98	7.79	6.92
3 & 4-methylphenol	10	74	0.71	9.5	2.12	7.1	10		6.35	7.16	7.34	7.92	8.23	8.20	6.90
bis(2-Chloroisopropyl)ether	10	76	0.52	6.8	1.55	5.2	10		6.85	7.18	7.45	7.65	8.32	8.13	7.41
N-Nitrosopyrrolidine	10	74	0.84	11.3	2.51	8.4	10		6.28	6.87	7.62	7.79	8.59	8.12	6.66
N-Nitroso-di-n-propylamine	10	73	0.74	10.1	2.22	7.4	10		6.38	6.54	7.59	7.69	8.33	7.96	6.90
Hexachloroethane	10	71	0.64	9.0	1.91	6.4	10		6.03	6.76	6.92	7.38	7.63	7.97	6.95
Acetophenone	10	75	0.56	7.5	1.69	5.6	10		6.55	7.21	7.59	7.73	8.01	8.20	7.16
0-Toluidine	10	71	0.83	11.8	2.50	8.3	10		5.62	6.90	7.31	7.48	7.97	7.77	6.35
Nitrobenzene	10	74	0.60	8.2	1.81	6.0	10		6.64	7.19	7.03	7.34	8.20	8.21	7.04
N-Nitrosopiperidine	10	67	0.64	9.5	1.91	6.4	10		5.95	6.26	6.84	6.97	7.40	7.48	6.01
Isophorone	10	74	0.62	8.4	1.87	6.2	10		6.55	7.18	7.62	7.45	8.07	8.28	6.86
2-Nitrophenol	10	62	0.64	10.4	1.93	6.4	10		5.49	5.87	6.48	6.14	7.12	6.89	5.51
2,4-Dimethylphenol	10	67	0.61	9.1	1.83	6.1	10		5.76	6.54	6.65	6.77	7.44	7.51	6.33
O,O,O-Triethyl phosphorothioate	10	58	0.94	16.3	2.82	9.4	10		5.15	5.28	6.75	4.95	6.76	6.74	4.71
bis(2-Chloroethoxy)methane	10	77	0.59	7.6	1.77	5.9	10		6.87	7.36	7.66	8.01	8.17	8.63	7.37
2,4-Dichlorophenol	10	64	0.53	8.3	1.59	5.3	10		5.64	6.18	6.69	6.69	6.98	6.91	5.85
2,6-Dichlorophenol	10	68	0.52	7.6	1.55	5.2	10		6.04	6.52	6.74	6.89	7.43	7.44	6.43
1,2,4-Trichlorobenzene	10	66	0.47	7.1	1.41	4.7	10		5.87	6.45	6.83	6.59	7.14	7.24	6.42
Naphthalene	10	71	0.51	7.2	1.52	5.1	10		6.30	7.00	7.14	7.27	7.69	7.67	6.66

COMPOUND NAME	SPIKE AMOUNT	MEAN % REC.	STD DEV	RSD	LOD	LOQ	RepL	MCL	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
4-Chloroaniline	10	59	0.48	8.2	1.45	4.8	10		5.25	5.67	5.79	5.95	6.62	6.34	5.45
Hexachloropropene	10	61	0.48	7.9	1.45	4.8	10		5.35	5.58	6.61	6.24	6.49	6.47	6.08
Hexachlorobutadiene	10	66	0.48	7.3	1.45	4.8	10		5.86	6.31	6.76	6.80	6.86	7.29	6.21
N-Nitrosodibutylamine	10	74	0.75	10.1	2.24	7.5	10		6.30	6.87	7.55	7.55	8.35	8.20	6.87
1,4-Benzenediamine	100	69	8.14	11.9	24.43	81.4	100		61.33	74.58	79.49	64.60	58.40	65.07	76.22
4-Chloro-3-methylphenol	10	73	0.63	8.6	1.90	6.3	10		6.48	7.15	7.12	7.55	7.98	8.19	6.71
Isosafrole	10	67	0.53	7.9	1.59	5.3	10		6.04	6.38	6.55	6.80	7.63	7.10	6.38
Safrole	10	73	0.72	9.9	2.15	7.2	10		6.11	7.09	7.17	7.53	8.05	8.16	6.78
2-Methylnaphthalene	10	71	0.65	9.1	1.94	6.5	10		6.24	6.76	7.26	7.25	7.62	8.15	6.61
Hexachlorocyclopentadiene	25	104	1.69	6.5	5.08	16.9	20	50	27.63	28.57	24.78	25.81	24.45	26.32	24.02
1,2,4,5-Tetrachlorobenzene	10	65	0.55	8.5	1.66	5.5	10		5.54	6.39	6.75	6.64	6.88	7.27	6.20
2,4,6-Trichlorophenol	10	62	0.51	8.2	1.53	5.1	10		5.44	6.37	6.18	6.41	6.94	6.57	5.71
2,4,5-Trichlorophenol	10	61	0.66	10.8	1.97	6.6	10		5.24	6.15	6.12	6.17	6.95	6.76	5.27
2-Chloronaphthalene	10	63	0.56	8.9	1.69	5.6	10		5.41	6.18	6.42	6.48	6.83	7.05	5.83
2-Nitroaniline	10	64	0.75	11.7	2.25	7.5	10		5.01	6.51	6.67	6.54	7.07	7.09	5.77
3-Nitroaniline	10	39	0.53	13.5	1.59	5.3	10		3.39	3.85	3.94	3.97	4.77	4.39	3.24
4-Nitroaniline	10	54	0.90	16.8	2.71	9.0	10		4.52	4.95	5.14	5.40	7.00	6.14	4.53
1,4-Naphthoquinone	10	44	0.44	10.0	1.33	4.4	10		4.00	4.53	4.37	4.37	4.74	5.12	3.79
1,3-Dinitrobenzene	10	59	0.63	10.6	1.88	6.3	10		5.04	6.10	6.03	6.09	6.77	6.24	5.10
Acenaphthylene	10	67	0.64	9.5	1.91	6.4	10		5.74	6.72	6.67	6.65	7.20	7.60	6.03
Dimethylphthalate	10	66	0.55	8.4	1.66	5.5	10		5.68	6.61	6.56	6.74	6.96	7.38	6.13
2,6-Dinitrotoluene	10	64	0.66	10.4	1.99	6.6	10		5.42	6.24	6.34	6.47	7.25	7.08	5.72
2,4-Dinitrotoluene	10	64	0.58	9.0	1.74	5.8	10		5.66	6.58	6.42	6.19	7.09	7.15	5.81
Acenaphthene	10	67	0.55	8.1	1.64	5.5	10		5.95	6.59	6.82	6.81	7.55	7.23	6.23
2,4-Dinitrophenol	10	31	0.62	20.0	1.86	6.2	10		2.25	3.38	3.07	3.27	4.08	3.29	2.41
Dibenzofuran	10	69	0.62	9.0	1.87	6.2	10		5.97	6.93	6.90	7.04	7.69	7.59	6.30
4-Nitrophenol	10	48	0.73	15.0	2.18	7.3	10		4.08	4.55	4.88	5.52	5.73	5.30	3.82
Pentachlorobenzene	10	70	0.62	8.9	1.86	6.2	10		6.10	6.79	6.96	7.09	7.73	7.82	6.51
1-Naphthylamine	10	56	0.99	17.6	2.96	9.9	10		6.05	5.80	6.62	5.12	4.89	6.72	4.00
2-Naphthylamine	10	43	0.73	16.9	2.19	7.3	10		4.73	4.08	4.99	3.51	3.48	5.36	4.04
Thionazin	10	60	0.74	12.4	2.23	7.4	10		4.81	5.45	6.07	6.30	6.57	7.08	5.85
5-Nitroso-o-toluidine	10	54	0.72	13.3	2.15	7.2	10		4.56	5.10	5.14	5.43	6.61	5.99	4.77

COMPOUND NAME	SPIKE AMOUNT	MEAN % REC.	STD DEV	RSD	LOD	LOQ	RèpL	MCL	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
Fluorene	10	68	0.68	9.9	2.03	6.8	10		5.88	6.76	6.81	6.89	7.65	7.65	6.12
4-Chlorophenyl-phenylether	10	67	0.62	9.2	1.85	6.2	10		5.71	6.57	6.76	6.78	7.38	7.44	6.19
Diethylphthalate	10	69	0.60	8.7	1.79	6.0	10		5.85	7.17	6.74	6.85	7.49	7.50	6.43
2,3,4,6-Tetrachlorophenol	10	63	0.60	9.7	1.81	6.0	10		5.35	6.17	6.59	6.18	6.89	6.95	5.67
4,6-Dinitro-2-methylphenol	10	51	0.46	9.1	1.39	4.6	10		4.46	5.08	4.98	5.03	5.80	5.52	4.66
Diphenylamine	10	66	0.64	9.6	1.91	6.4	10		5.79	6.56	6.45	6.68	7.42	7.38	5.93
1,2-Diphenylhydrazine	10	82	0.69	8.5	2.08	6.9	10		7.12	8.06	8.05	8.03	8.96	9.14	7.73
1,3,5-Trinitrobenzene	10	55	0.59	10.7	1.76	5.9	10		4.92	5.58	5.39	5.20	6.19	6.39	4.90
trans-Diallate	5	77	0.43	11.2	1.29	4.3	10		3.10	3.92	3.70	3.88	4.24	4.39	3.56
cis-Diallate	5	80	0.49	12.2	1.46	4.9	10		3.24	4.11	3.85	3.97	4.74	4.39	3.69
Phorate	10	81	1.33	16.4	3.99	13.3	20		5.99	7.42	8.45	8.04	9.75	9.62	7.37
Phenacetin	10	67	0.72	10.8	2.17	7.2	10		5.74	6.62	6.71	6.50	7.61	7.63	6.01
4-Bromophenyl-phenylether	10	72	0.71	9.9	2.13	7.1	10		5.99	7.06	7.21	7.20	7.98	8.07	6.81
Hexachlorobenzene	10	74	0.62	8.4	1.87	6.2	10		6.40	7.49	7.48	7.54	8.19	8.06	6.91
Dimethoate	10	93	0.99	10.6	2.98	9.9	10		7.77	8.75	9.12	9.75	10.39	10.63	8.94
4-Aminobiphenyl	10	24	0.54	22.8	1.61	5.4	10		2.04	1.87	2.48	2.28	3.45	2.43	1.94
Pentachlorophenol	10	48	0.75	15.8	2.26	7.5	10	1	3.70	4.85	4.98	4.58	5.90	5.36	4.01
Pentachloronitrobenzene	10	70	0.72	10.3	2.15	7.2	10		5.76	7.01	7.02	7.18	7.77	7.64	6.29
Pronamide	10	67	0.45	6.7	1.36	4.5	10		6.97	7.18	5.88	6.82	6.98	6.94	6.36
Disulfoton	10	99	0.63	6.3	1.88	6.3	10		9.00	9.44	10.00	10.01	10.95	10.29	9.65
Phenanthrene	10	70	0.66	9.4	1.97	6.6	10		5.99	6.86	6.98	7.04	7.66	7.83	6.36
Anthracene	10	73	0.70	9.6	2.09	7.0	10		6.15	7.19	7.34	7.27	8.05	8.13	6.72
Methyl parathion	10	78	1.01	13.0	3.04	10.1	10		6.36	7.65	7.65	7.49	9.11	9.11	7.10
Di-n-butylphthalate	10	70	0.64	9.1	1.91	6.4	10		5.98	6.92	6.97	6.86	7.70	7.81	6.52
Parathion	10	61	0.67	11.0	2.02	6.7	10		5.03	6.04	6.25	6.29	7.02	6.69	5.54
Fluoranthene	10	70	0.65	9.4	1.96	6.5	10		6.08	6.86	6.94	6.92	7.75	7.83	6.34
Methapyrilene	10	39	2.04	52.4	6.11	20.4	10		6.66	4.67	3.05	4.97	1.03	1.67	5.18
Isodrin	10	67	0.73	11.0	2.20	7.3	10		5.38	6.71	6.98	7.10	7.38	7.23	5.99
Pyrene	10	72	0.69	9.7	2.08	6.9	10		6.12	7.31	7.13	7.21	7.99	7.96	6.50
Dimethylaminoazobenzene	10	70	0.77	10.9	2.31	7.7	10		5.84	6.93	6.89	7.33	8.04	7.76	6.34
Chlorobenzilate	10	67	0.80	11.9	2.40	8.0	10		5.48	6.69	6.54	6.94	7.61	7.73	6.06
Famphur	10	18	0.27	15.4	0.82	2.7	10		1.59	1.67	1.87	1.89	2.25	1.38	1.81

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COMPOUND NAME	SPIKE AMOUNT	MEAN % REC.	STD DEV	RSD	LOD	LOQ	RepL	MCL	MDL01	MDL02	MDL03	MDL04	MDL05	MDL06	MDL07
3,3'-Dimethylbenzidine	20	99	1.57	7.9	4.72	15.7	20		19.29	18.56	19.51	18.24	19.12	21.75	22.30
Butylbenzylphthalate	10	68	0.72	10.6	2.16	7.2	10		5.74	6.76	6.80	6.87	7.73	7.64	6.15
Kepone	10	152	1.60	10.5	4.79	16.0	10		13.54	15.90	17.17	15.70	16.95	13.25	14.17
2-Acetylaminofluorene	10	55	0.61	11.1	1.84	6.1	10		4.74	5.37	5.61	5.46	6.52	5.99	4.90
3,3'-Dichlorobenzidine	10	72	0.85	11.9	2.56	8.5	10		6.21	7.02	7.11	7.10	8.74	7.69	6.35
Benzo[a]anthracene	10	72	0.70	9.8	2.11	7.0	10		6.12	7.19	7.04	7.14	7.96	8.08	6.55
Chrysene	10	71	0.69	9.8	2.07	6.9	10		6.16	7.09	7.03	7.01	7.95	7.93	6.36
bis(2-Ethylhexyl)phthalate	10	69	0.64	9.2	1.92	6.4	10	7	6.00	6.81	6.97	6.76	7.81	7.69	6.50
Di-n-octylphthalate	10	70	0.68	9.7	2.05	6.8	10		5.99	6.81	6.97	7.18	7.96	7.80	6.59
7,12-Dimethylbenz(a)anthracene	10	38	0.41	10.6	1.22	4.1	10		3.97	4.16	3.81	3.61	4.09	4.11	3.01
Benzo[b]fluoranthene	10	69	0.76	11.0	2.28	7.6	10		5.63	7.02	7.01	7.06	7.19	8.04	6.26
Benzo[k]fluoranthene	10	76	0.64	8.4	1.91	6.4	10		6.65	7.51	7.66	7.51	8.49	8.33	7.16
Benzo[a]pyrene	10	69	0.71	10.3	2.14	7.1	10	0.2	5.86	6.78	6.91	6.83	7.83	7.78	6.33
3-Methylcholanthrene	10	40	0.72	18.0	2.15	7.2	10		3.31	3.50	4.05	3.87	4.91	4.98	3.26
Indeno[1,2,3-cd]pyrene	10	67	0.70	10.5	2.10	7.0	10		5.80	6.50	6.73	6.51	7.56	7.62	6.02
Dibenz[a,h]anthracene	10	67	0.71	10.7	2.14	7.1	10		5.70	6.41	6.77	6.51	7.61	7.55	6.08
Benzo[g,h,i]perylene	10	67	0.59	8.8	1.77	5.9	10		6.04	6.62	6.75	6.54	7.52	7.55	6.21

All units are reported in ug / L except MEAN % REC, and RSD which are Percentages.
RepL = Reporting Limit

VOID

Compound Name	SPIKE AMNT	RUN 01	RUN 01 % REC.	RUN 02	RUN 02 % REC.	RUN 03	RUN 03 % REC.	RUN 04	RUN04 % REC.	MEAN % REC. (X)	STD DEV % REC. (S)
5-Nitroso-o-toluidine	100	100.63	100.63	107.90	107.90	106.67	106.67	110.16	110.16	106.34	4.07
Fluorene	100	70.95	70.95	70.22	70.22	70.58	70.58	69.90	69.90	70.41	0.45
4-Chlorophenyl-phenylether	100	76.25	76.25	76.74	76.74	77.58	77.58	76.81	76.81	76.84	0.55
Diethylphthalate	100	40.46	40.46	49.00	49.00	51.90	51.90	45.23	45.23	46.65	4.95
2,3,4,6-Tetrachlorophenol	100	94.84	94.84	98.94	98.94	96.79	96.79	84.11	84.11	93.67	6.59
4,6-Dinitro-2-methylphenol	100	81.39	81.39	82.65	82.65	81.37	81.37	82.06	82.06	81.87	0.61
Diphenylamine	100	25.84	25.84	25.73	25.73	25.98	25.98	26.59	26.59	26.03	0.39
1,3,5-Trinitrobenzene	100	87.64	87.64	88.53	88.53	90.82	90.82	89.83	89.83	89.21	1.40
trans-Diallate	100	72.10	72.10	72.34	72.34	78.37	78.37	71.51	71.51	73.58	3.21
cis-Diallate	100	77.74	77.74	75.81	75.81	80.27	80.27	73.14	73.14	76.74	3.01
Phorate	100	49.21	49.21	63.23	63.23	72.74	72.74	63.36	63.36	62.13	9.70
Phenacetin	100	101.18	101.18	103.64	103.64	101.38	101.38	90.39	90.39	99.15	5.94
4-Bromophenyl-phenylether	100	76.86	76.86	76.46	76.46	77.92	77.92	77.38	77.38	77.16	0.63
Hexachlorobenzene	100	75.30	75.30	77.10	77.10	77.02	77.02	76.21	76.21	76.41	0.84
Dimethoate	100	9.29	9.29	15.37	15.37	9.17	9.17	9.67	9.67	10.88	3.00
4-Aminobiphenyl	100	100.38	100.38	102.40	102.40	83.41	83.41	90.95	90.95	94.28	8.80
Pentachlorophenol	100	81.56	81.56	80.31	80.31	81.15	81.15	81.84	81.84	81.21	0.66
Pentachloronitrobenzene	100	102.98	102.98	106.98	106.98	103.78	103.78	92.17	92.17	101.48	6.44
Pronamide	100	104.85	104.85	100.45	100.45	104.00	104.00	101.80	101.80	102.77	2.01
Disulfoton	100	57.03	57.03	62.52	62.52	66.39	66.39	61.81	61.81	61.94	3.84
Phenanthrene	100	74.60	74.60	74.77	74.77	75.30	75.30	73.89	73.89	74.64	0.58
Anthracene	100	72.96	72.96	73.55	73.55	73.52	73.52	70.87	70.87	72.73	1.26
Methyl parathion	100	55.01	55.01	65.15	65.15	77.01	77.01	67.58	67.58	66.19	9.04
Di-n-butylphthalate	100	71.48	71.48	70.45	70.45	70.32	70.32	69.97	69.97	70.55	0.65
Parathion	100	68.40	68.40	71.52	71.52	78.69	78.69	72.26	72.26	72.72	4.32
Fluoranthene	100	73.31	73.31	73.03	73.03	73.04	73.04	72.77	72.77	73.03	0.22
Methapyrilene	100	42.52	42.52	8.42	8.42	43.58	43.58	51.44	51.44	36.49	19.13
Isodrin	100	82.79	82.79	87.07	87.07	77.85	77.85	81.18	81.18	82.22	3.83
Pyrene	100	72.48	72.48	72.26	72.26	71.89	71.89	71.41	71.41	72.01	0.47
Dimethylaminoazobenzene	100	99.77	99.77	101.41	101.41	97.48	97.48	87.92	87.92	96.65	6.04
Chlorobenzilate	100	25.20	25.20	50.73	50.73	62.22	62.22	52.67	52.67	47.71	15.83

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Compound Name	SPIKE AMNT	RUN 01	RUN 01 % REC.	RUN 02	RUN 02 % REC.	RUN 03	RUN 03 % REC.	RUN 04	RUN04 % REC.	MEAN % REC. (X)	STD DEV % REC. (S)
Famphur	100	69.33	69.33	77.76	77.76	89.17	89.17	82.99	82.99	79.81	8.40
3,3'-Dimethylbenzidine	100	32.57	32.57	47.75	47.75	40.97	40.97	52.35	52.35	43.41	8.61
Butylbenzylphthalate	100	69.84	69.84	68.16	68.16	68.47	68.47	67.50	67.50	68.49	0.99
Kepone	100	130.22	130.22	102.21	102.21	119.31	119.31	135.61	135.61	121.84	14.74
2-Acetylaminofluorene	100	89.30	89.30	94.29	94.29	88.47	88.47	92.54	92.54	91.15	2.73
3,3'-Dichlorobenzidine	100	109.30	109.30	111.21	111.21	104.19	104.19	95.83	95.83	105.13	6.87
Benzo[a]anthracene	100	75.53	75.53	74.90	74.90	75.50	75.50	75.18	75.18	75.28	0.30
Chrysene	100	72.33	72.33	71.48	71.48	71.37	71.37	70.18	70.18	71.34	0.89
bis(2-Ethylhexyl)phthalate	100	69.39	69.39	69.25	69.25	67.67	67.67	67.34	67.34	68.41	1.06
Di-n-octylphthalate	100	72.08	72.08	69.69	69.69	69.43	69.43	68.86	68.86	70.01	1.42
7,12-Dimethylbenz(a)anthracene	100	93.89	93.89	95.20	95.20	88.94	88.94	83.92	83.92	90.49	5.14
Benzo[b]fluoranthene	100	75.38	75.38	75.44	75.44	74.61	74.61	75.72	75.72	75.29	0.48
Benzo[k]fluoranthene	100	76.65	76.65	77.92	77.92	75.88	75.88	74.01	74.01	76.12	1.64
Benzo[a]pyrene	100	73.18	73.18	73.07	73.07	72.87	72.87	72.83	72.83	72.99	0.16
3-Methylcholanthrene	100	73.00	73.00	70.57	70.57	77.30	77.30	74.09	74.09	73.74	2.79
Indeno[1,2,3-cd]pyrene	100	72.20	72.20	71.98	71.98	72.81	72.81	71.87	71.87	72.21	0.42
Dibenz[a,h]anthracene	100	71.21	71.21	71.82	71.82	71.35	71.35	70.89	70.89	71.32	0.39
Benzo[g,h,i]perylene	100	75.71	75.71	75.76	75.76	76.23	76.23	74.77	74.77	75.62	0.61
2-Fluorophenol	75	61.39	81.85	64.24	85.66	61.27	81.70	61.50	82.00	82.80	1.91
Phenol-d5	75	63.62	84.82	68.32	91.10	65.39	87.19	66.66	88.87	88.00	2.65
2-Chlorophenol-d4	75	63.32	84.42	67.00	89.34	64.29	85.72	64.99	86.65	86.53	2.08
1,2-Dichlorobenzene-d4	50	35.85	71.70	37.41	74.81	35.69	71.38	37.16	74.31	73.05	1.76
Nitrobenzene-d5	50	40.66	81.32	43.28	86.56	40.07	80.15	40.46	80.91	82.24	2.92
2-Fluorobiphenyl	50	39.36	78.71	41.13	82.25	38.74	77.48	39.91	79.82	79.57	2.03
2,4,6-Tribromophenol	75	70.94	94.59	77.34	103.12	71.92	95.90	73.17	97.56	97.79	3.76
Terphenyl-d14	50	41.22	82.45	45.33	90.66	40.93	81.86	42.67	85.33	85.08	4.02

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ETS ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTION LOGBOOK

TECH INIT	ETSAS SAMPLE ID	EXTRACTION DATE START	SAMPLE MATRIX	START VOLUMN (MLS)	FINAL VOLUMN (MLS)	SURROGATE ADDED (ID)	SURROGATE ADDED AMOUNT	SPIKE/DUP ADDED (ID)	SPIKE/DUP ADDED AMOUNT	OBSERVATIONS
DM	179499MS	6.28.95	Soil (PAH)	30.0g	1	OIB-70	1ml	PAH-10M 100ug/ml Lot 132-53A	0.5ml	
↓	179499MSD	↓	↓	30.0g	1	↓	↓	↓	↓	
	179500			30.7g	1					
	179501			30.1g	5					
	179502			30.5g	5					
↓	179503	↓	↓	30.0g	5	↓	↓			
DM	Prep Blank	6.29.95	Aq	1000	1	OIB-70	1ml			
↓	178811	↓	TCLP	250	5 ~~8~~ TM	↓	↓			
DM/JW	Prep Blank	7.5.95	Aq	10	1	OIB-82	1ml			
↓	180045	↓	↓	10	1	↓	↓			
DM/JW	Prep Blank	7.6.95	Aq.	1000	1	OIB-82	1ml			
↓	180050	↓	Aq.	1000	1	↓	↓			
↓	180051	↓	Aq.	1000	1					
	180051MS		Aq.	400	1			OIB-77	1ml	
↓	180051MSD	↓	Aq.	400	1	↓	↓	↓	↓	
DM/JW	Prep Blank	7.14.95	Aq	1000	1	OIB-82	1ml			
↓	180851	↓	Aq	1000	1	↓	↓			

MW

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ETS ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTION LOGBOOK

PAGE : _____

TECH INIT	ETSAS SAMPLE ID	EXTRACTION DATE START	SAMPLE MATRIX	START VOLUMN (MLS)	FINAL VOLUMN (MLS)	SURROGATE ADDED		SPIKE/DUP ADDED		OBSERVATIONS
						(ID)	AMOUNT	(ID)	AMOUNT	
DM/JW	180851MS	7.14.95	Aq.	1000	1	01B-82	1ml	01B-77	1ml	
↓	180851MSD	↓	↓	1000	1	↓	↓	↓	↓	
	180852			1000	1					
	180853			1000	1					
	180854			200	1					
	180855			1000	1					
	180856			1000	1					
	180857			1000	1					
	180858			1000	1					
	180859	TB-1		1000	1	↓	↓			
DRM 7.14.95 ↓	180860	↓	↓	—	—					
DM	PrepBlank	7.15.95	TCLP	40	1	01B-82	1ml			
↓	180715	↓	TCLP	250	1	↓	↓			
	PrepBlank	7.17.95	Aq.	1000	1	01B-82	1ml			
	180880			1000	1					
	180881			1000	1					
	180882	↓	↓	1000	1	↓	↓			

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ETS ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTION LOGBOOK

PAGE : _____

TECH INIT	ETSAS SAMPLE ID	EXTRACTION DATE START	SAMPLE MATRIX	START VOLUMN (MLS)	FINAL VOLUMN (MLS)	SURROGATE ADDED (ID)	SURROGATE ADDED AMOUNT	SPIKE/DUP ADDED (ID)	SPIKE/DUP ADDED AMOUNT	OBSERVATIONS
	180882MS	7-17-95	Ag	1000	1	01B-82	1ml	01B-77	1ml	
	180882MSD			1000	1					
	180883			1000	1					
	180884			1000	1					
	~~18~~ DEM PBTK	7-19-95	Soil (PAH)	—						
	180923			30.2	1	01B-82	1ml			
PM	~~180924~~ 3D	JSW								
	180925 3HS	JSW		30.0	1			Lot 132-53A PAH 10M 100ug/ml	0.5ml	
	180926 3HSD	JSW		30.0	1					
	180924			30.4	1					
	180925			30.3	1					
	180926			30.4	1					
	180927			30.4	1					
	180928			30.6	5					
	180929			30.6	5					
	180930			30.7	5					
	180931			30.3	1					

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ETS ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTION LOGBOOK

PAGE : _____

TECH INIT	ETSAS SAMPLE ID	EXTRACTION DATE START	SAMPLE MATRIX	START VOLUMN (MLS)	FINAL VOLUMN (MLS)	SURROGATE ADDED		SPIKE/DUP ADDED		OBSERVATIONS
						(ID)	AMOUNT	(ID)	AMOUNT	
JSW	180947	7-19-95	Soil (PAH)	30.0	1	01B-82	1ml			
↓	180948	↓	↓	30.0	1	↓	↓			
↓	180943	↓	↓	10.0	1	↓	↓			
	PBLK	7-20-95	BNA	1000	1	01B-82	1ml			Re-extraction
	180858			990	1					↓
	180880			990	1					
	180881			970	1					
↓	180882	↓	↓	990	1	↓	↓			
	GBLK		BAP	—	1	01B-44	1ml	~~01B-48~~	~~1ml~~	
	PBLK			1000	1			—	—	
	181202			1000	1			—	—	
	181203			1000	1			—	—	
	181204			1000	1			—	—	
	181205			1000	1			—	—	
	181205MS			1000	1			01B-48	1ml	
↓	181205MSD	↓	↓	1000	1	↓	↓	↓	↓	

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ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

61

ANALYST'S INITIALS: MRC	INSTRUMENT ID: MS5971.B	DATE: 07.10.95
ANALYSIS TYPE: SV0 A	DATA FILE PATH: C:\HPCHEM\1\DATA\SCAL0710	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 818-34
SS:
SPK:

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	16:32	Z	DFTPP TUNE 01		DFTPP625	DFTPP625	STUN01.D	1
	16:51		SV CAL STD	MIX 01 20ppm	MASTER	MIX 01	1SCAL020.D	2
	17:44			MIX 01 50ppm			1SCAL050.D	3
	18:36			80 ppm			1SCAL080.D	4
	19:28			120 ppm			1SCAL120.D	5
	20:20			160 ppm			1SCAL160.D	6
	21:12		↓	200ppm			1SCAL200.D	7
	22:05		SV ICV		↓	↓	ICV0710.D	8
	03:30		DFTPP TUNE 02		DFTPP625	DFTPP625	STUN02.D	9
	03:50		SV CAL STD	MIX 07 20ppm	MASTER	MIX 07	7SCAL020.D	10
	04:43			50ppm			7SCAL050.D	11
	05:35			80ppm			7SCAL080.D	12
	06:28			120ppm			7SCAL120.D	13
	07:20			160ppm			7SCAL160.D	14
	08:13			MIX 08 020ppm		MIX 08	8SCAL020.D	15
	09:05			050ppm			8SCAL050.D	16
	09:58			080ppm			8SCAL080.D	17
	10:51			120ppm			8SCAL120.D	18
	11:43			160ppm			8SCAL160.D	19
↓	12:35	↓	↓	200ppm	↓	↓	8SCAL200.D	20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

INT. STD. ABSOLUTE RESPONSES		COMMENTS:

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:
1	01			2µl			PASSED
2	02			1µl			
3	03						
4	04						CAL CURVE MIX 01
5	05						
6	06						
7	07						
8	08			↓			
9	01			2µl			PASSED
10	14			1µl			
11	15						
12	16						CAL CURVE MIX 07
13	17						
14	18						
15	19						
16	20						
17	21						CAL CURVE MIX 08
18	22						
19	23						
20	24			↓			
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

ANALYST'S SIGNITURE: CONT NEXT PAGE DATE: 7-13-95

REVIEWED BY: _____ DATE: _____

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ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

ANALYST'S INITIALS: MRC	INSTRUMENT ID: MS5971.B	DATE: 07.10.95
ANALYSIS TYPE: SVOA	DATA FILE PATH: C:\HPCHEM\1\DATA\SCAL0710	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 818-84
SS:
SPK:

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	13:27	Z	DFTPP TUNE 03		DFTPP625	DFTPP625	STUN03.D	1
"	13:48	"	SV CAL STD	MIX 09 20ppm	MASTER	MIX 09	9SCAL020.D	2
"	14:40	"	"	50ppm	"	"	9SCAL050.D	3
"	15:32	"	"	80ppm	"	"	9SCAL080.D	4
"	16:25	"	"	120ppm	"	"	9SCAL120.D	5
"	17:17	"	"	160ppm	"	"	9SCAL160.D	6
"	18:09	"	"	MIX 03 20ppm	"	MIX 03	3SCAL020.D	7
"	19:01	"	"	50ppm	"	"	3SCAL050.D	8
"	19:54	"	"	80ppm	"	"	3SCAL080.D	9
"	20:46	"	"	120ppm	"	"	3SCAL120.D	10
"	21:39	"	"	160ppm	"	"	3SCAL160.D	11
MRC	22:26	"	DFTPP TUNE 04		DFTPP625	DFTPP625	STUN04.D	12
"	23:03	"	SV CAL STD	KEPONE 20ppm	MASTER	KEPONE	KPNE020.D	13
"	23:56	"	"	50ppm	"	"	KPNE050.D	14
"	.:48	"	"	80ppm	"	"	KPNE080.D	15
"	1:41	"	"	120ppm	"	"	KPNE120.D	16
"	2:33	"	"	160ppm	"	"	KPNE160.D	17
"	3:26	"	"	200ppm	"	"	KPNE200.D	18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

64

INT. STD. ABSOLUTE RESPONSES	

COMMENTS:
CONTINUED FROM PREVIOUS PAGE

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:
1	01			2ul			PASSED
2	25			1ul			
3	26						
4	27						CALIBRATION STD MIX 09
5	28						
6	29						
7	09						
8	10						
9	11						CALIBRATION STD MIX 03
10	12						RE-RUN NO GOOD
11	13			↓			
12	01			2ul			
13	30			1ul			
14	31						
15	32						KEPONE CAL CURVE
16	33						
17	34						
18	35			↓			
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

ANALYST'S SIGNITURE: Michael R Casalena DATE: 07-13-95

REVIEWED BY: _____ DATE: _____

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ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

ANALYST'S INITIALS: MRC	INSTRUMENT ID: [illegible]	DATE: 7.18.95
ANALYSIS TYPE: SVOA	DATA FILE PATH: C:\HPCHEM\1\DATA\SCHL0718\	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 018-83
SS: 018-82
SPK: 018-77

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	7:50	Z	DFTPP TUNE 06	50ng INJECTION	DFTPP625	DFTPP625	STUN06.D	1
	8:20		MIX 03 CAL CURVE	20 PPM	MASTER	MIX03	3SCAL020.D	2
	9:03			50 PPM			3SCAL050.D	3
	10:5			80 PPM			3SCAL080.D	4
	10:51			120 PPM			3SCAL120.D	5
	11:41			160 PPM			3SCAL160.D	6
								7
MRC	12:51 13:57	Z	DFTPP TUNE 07	50ng INJECTION	DFTPP625	DFTPP625	STUN07.D	8
	13:11		CCV 50PPM MIX 01		MASTER	MIX01	1SSTD07.D	9
	14:04		CCV 50PPM MIX 03			MIX03	3SSTD07.D	10
	14:56		CCV 50PPM MIX 07			MIX07	7SSTD07.D	11
	15:48		CCV 50PPM MIX 08			MIX08	8SSTD07.D	12
	16:41		CCV 50PPM MIX 09			MIX09	9SSTD07.D	13
	17:33	W	PREP BLANK	FOR 7/14/95		MASTER	SPBLK07.D	14
	18:25		180959	TRIP BLANK			180959.D	15
	19:18		180851	MW-01			180851.D	16
~~[illegible]~~	~~20:10~~		~~180851MS~~	~~MW-01 MS~~			~~180851MS.D~~	~~17~~
~~[illegible]~~	~~21:00~~		~~180851MSD~~	~~MW-01 MSD~~			~~180851SD.D~~	18
	21:53		180852	MW-03			180852.D	19
	22:45		180853	MW-06			180853.D	20
	23:38	TCLP	TCLP PREP BLK			TCLP	STBLK01.D	21
	00:30		180795				180795.D	22
								23
								24
								25
								26
								27
								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

68

INT. STD. ABSOLUTE RESPONSES	
385415	1019411
1325760	648020
736027	407313

COMMENTS:
PART 2 FROM LINE 8 IS NEW TUNE + DATA
STORED IN PATH C:\HPCHEM\1\DATA\071895S

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:
1	01			2ul			PASSED
2	09			1ul			
3	10			↓			MIX 03 CALIBRATION CURVE
4	11						
5	12						
6	13			↓			
7							
8	01			2ul			PASSED
9	02			1ul			OK ①
10	03						OK CCV ②
11	04						OK 2 >30% RSD ② ①
12	05						OK USE FOR SAMPLES ④
13	06						OK ⑤
14	07	1000 mls			✓	✓	OK RPT
15	08	↓			✓	✓	OK RPT
16	09	↓			✓	✓	OK RPT WATAUGA
17	~~10~~	~~↓~~	~~↓~~	~~↓~~	~~✓~~	~~✓~~	~~OK RPT~~ RE-RUN
18	~~11~~	~~↓~~	~~↓~~	~~↓~~	~~✓~~	~~✓~~	~~OK RPT~~ RE-RUN
19	12	1000 mls			✓	✓	OK RPT
20	13	↓			✓	✓	OK RPT
21	14	↓			✓	✓	OK RPT
22	15	↓			✓	✓	OK RPT
23							
24							
25							
26							
27							
28							
29							
30							

ANALYST'S SIGNITURE: Michael R Pavelina DATE: 7-19-95

REVIEWED BY: _____ DATE: _____

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

69

ANALYST'S INITIALS: MRC	INSTRUMENT ID: MS5971.B	DATE: 07.19.95
ANALYSIS TYPE: SVOA	DATA FILE PATH: C:\HPCHEM\1\DATA\071995S	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 81B-83
SS: 81B-82
SPK: 81B-77

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	8:56	Z	DFTPP TUNE 08 50ng		DFTPP625	DFTPP625	STUN08.D	1
	9:17		CCV 50ppm mix 1		MASTER	MIX01	1SSTD08.D	2
	10:09		mix 3			MIX03	3SSTD08.D	3
	11:01		mix 7			MIX 07	7SSTD08.D	4
	11:53		mix 8			MIX 08	8SSTD08.D	5
	12:46	↓	↓ mix 9			MIX 09	9SSTD08.D	6
	13:38	W	PREP BLANK 08	FOR 7-17-95		MASTER	SPBLK08.D	7
	14:30		180884	TRIP BLANK		MASTER	180884.D	8
	15:23		180851MS	MW-01 MS			180851MS.D	9
	16:15		180851MSD	MW-01 MSD			180851MSD.D	10
	17:07		180854	MW-07			180854.D	11
	17:59		180855	MW-08			180855.D	12
	18:51		180856	MW-10			180856.D	13
	19:43		180857	MW-11			180857.D	14
	20:36		180858	MW-17	↓	↓	180858.D	15
	21:40	Z	DFTPP TUNE 09 50ng INJECTION		DFTPP625	DFTPP625	MRC STUN09.D	16
	22:00		CCV 50ppm mix 1		MASTER	MIX01	1SSTD09.D	17
	22:53		CCV 50ppm mix 3			MIX03	3SSTD09.D	18
	23:45		mix 7			MIX07	7SSTD09.D	19
	:38		mix 8			MIX 08	8SSTD09D	20
	1:31	↓	↓ mix 9			mix 09	9SSTD09.D	21
	2:23	W	180880	MW-02		MASTER	180880.D	22
	3:16		180881	MW-04			180881.D	23
	4:08		180882	MW-09			180882.D	24
	5:01		180882MS	MW-09 MS			180882MS.D	25
	5:53		180882MSD	MW-09 MSD			180882SD.D	26
↓	6:46	↓	180883	MW-12	↓	↓	180883.D	27
								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

7C

INT. STD. ABSOLUTE RESPONSES	
180312	471398
616713	298377
335428	189476

COMMENTS:

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:	
1	01			2µl			PASSED	
2	02			1µl			OK	①
3	03						OK	①
4	04						OK	2
5	05						OK	①
6	06						OK ~~BIS-2-ETHYLHEXYL PHTHALATE~~ OK	④ 2
7	07	1000mls			✓	✓	OK ~~BIS-2EHP~~	
8	08	↓			✓	✓	OK	
9	09				✓	✓	OK	
10	10	↓			✓	✓	OK	
11	11	200mls			✓	✓	OK	WATAUGA
12	12	1000mls			✓	✓	OK	
13	13	↓			✓	✓	OK	
14	14				✓	✓	OK	
15	15	↓			✓	N	RE-EXTRACT	
16	01			2µl			PASSED	
17	02			1µl			~~USE~~ (CCC OUT)	②
18	03						USE	①
19	04						USE	①
20	05						USE	①
21	06						USE	②
22	16				✓	✓	RE-EXTRACT	
23	17				✓	✓	↓	
24	18				✓	N	~~OK~~ RE-EXTRACT	WATAUGA
25	19				✓	✓	OK	
26	20				✓	✓	OK	
27	21				✓	✓	OK	
28								
29							RE-RUN	
30								

ANALYST'S SIGNITURE: Michael Rhoades DATE: _____

REVIEWED BY: _____ DATE: _____

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ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

79

ANALYST'S INITIALS: MRC	INSTRUMENT ID: MS5971.B	DATE: 07.29.95
ANALYSIS TYPE: SVOA	DATA FILE PATH: C:\HPCHEM\1\DATA\072995S	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 01B-93
SS:
SPK:

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	10:38	Z	DFTPP TUNE 13	[50ng]	DFTPP625	DFTPP625	STUN13.D	1
"	10:59	"	MIX 01 CAL CRV	20ppm	MASTER	MIX01	1SCAL020.D	2
"	11:51	"	"	50ppm	"	"	1SCAL050.D	3
"	12:44	"	"	80ppm	"	"	1SCAL080.D	4
"	13:36	"	"	120ppm	"	"	1SCAL120.D	5
"	14:28	"	"	160ppm	"	"	1SCAL160.D	6
"	15:20	"	↓	200ppm	"	↓	1SCAL200.D	7
"	17:05	"	MIX 07 CAL CRV	20ppm	"	MIX 07	7SCAL020.D	8
"	17:57	"	"	50ppm	"	"	7SCAL050.D	9
"	18:49	"	"	80ppm	"	"	7SCAL080.D	10
↓	19:42	"	"	120ppm	"	"	7SCAL120.D	11
↓	20:34	↓	↓	160ppm	↓	↓	7SCAL160.D	12
								13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
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								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

80

INT. STD. ABSOLUTE RESPONSES		COMMENTS:

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:
1	01			2ml			PASSED
2	02			1ml			
3	03			"			
4	04						MIX 81 CURVE
5	05						
6	06						
7	07						
8	08						
9	09						
10	10						MIX 37 CURVE
11	11						
12	12			"			
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

ANALYST'S SIGNITURE: Michael L Casalena DATE: 7-29-95

REVIEWED BY: _____ DATE: _____

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ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

81

ANALYST'S INITIALS: MRC	INSTRUMENT ID: MS5971.B	DATE: 07,31.95
ANALYSIS TYPE: SVOA	DATA FILE PATH: C:\HPCHEM\1\DATA\073195S	
BACKUP TAPE ID:	MAINTENANCE REF:	

STANDARD ID'S
IS: 81-01
SS: 81B-82
SPK:

OPER INIT.	TIME	MATRIX	ETSAS SAMPLE ID	CLIENT SAMPLE ID	AQUISITION METHOD	QUANT METHOD	DATA FILE ID	LINE
MRC	10:29	Z	DFTPP TUNE 14	50ng	DFTPP625	DFTPP625	STUN14.D	1
	10:49	"	SV MIX 01 CCV	50PPM	MASTER	MIX01	1SSTD14.D	2
	11:41	"	SV MIX 03 CCV	"		MIX 03	3SSTD14.D	3
	12:33	"	SV MIX 07 CCV	"		MIX 07	7SSTD14.D	4
	13:26	"	SV MIX 08 CCV	"		MIX 08	8SSTD14.D	5
	14:18	↓	SV MIX 09 CCV	↓		MIX 09	9SSTD14.D	6
	15:10	W	PREP BLANK 14			MASTER	SPBLK14.D	7
	16:02		180884 RE-RUN	TRIP BLANK		MASTER	180884R.D	8
	16:55		180853 RE-EXT.	MW-17		MASTER	180853RE.D	9
	17:47		180882 RE-EXT.	MW-02		MASTER	180882RE.D	10
	18:39		180881 RE-EXT.	MW-04		MASTER	180881RE.D	11
	19:31		180852 RE-EXT.	MW-09		MASTER	180852RE.D	12
	22:08		180883 RE-~~EXT~~ RUN	MW-12		MASTER	180883R.D	13
								14
								15
								16
								17
								18
								19
								20
								21
								22
								23
								24
								25
								26
								27
								28
								29
								30

ETS ANALYTICAL SERVICES, INC
INSTRUMENT LOGBOOK

82

INT. STD. ABSOLUTE RESPONSES	
143421	226749
485175	81324
253969	62269

COMMENTS:

LINE	POS. NO.	SAMPLE AMOUNT	DILUTION	INJECTION VOLUME	IS OK	SS OK	RUN COMMENTS:
1	01			2µl			PASSED
2	02			1µl			
3	03						
4	04						
5	05						
6	06						
7	07				✓	✓	OK
8	08				✓	✓	OK
9	09				✓	N	2ND RUN SURR ACID OUT RPT
10	10				✓	✓	OK
11	11				✓	✓	OK
12	12				✓	N	RE-EXT SURR-OUT RPT
13	13				✓	✓	OK
14	14 mC						
15	15 mC						
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
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ANALYST'S SIGNITURE: Michael L Casalena DATE: 08-01-95

REVIEWED BY: _____ DATE: _____

[451]

DRAPER ADEN pH LOG

LANDFILL: Watauga Co. JOB #: 6520-21 SDG NUMBER: 180880

DATE	INT.	FIELD ID NUMBER	LAB ID NUMBER	SAMPLE DESCRIPTION	TEMP.	8270A	8260 <2	Acryl. 4-5	Sulfide >12							PROBLEMS:
7/13/05	LKG	MW2	180880	clear/colorless	4°	✓	<2	5	>12							
		MW4	180881	clear/colorless	4°	✓	<2	5	>12							
		MW9	180882	clear/colorless	4°	✓	<2	5	>12							d15
		MW12	180883	clear/colorless	4°	✓	<2	5	>12							
		Trip Blank-2	180884	clear/colorless	4°	✓	<2	5	>12							
		Trip Blank-3	180885	clear/colorless	4°	✓	<2	5	>12		CANCEL					Not on paperwork

MW2, 4, 9, MS, MSD, 12 were not preserved w/ NaOH + Zn Acetate. Preservative vials returned w/ samples.

DAH does not require Sulfides to be preserved with NaOH.

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DRAPER ADEN SAMPLE LOG-IN SHEET

ETS Analytical Services — Page ____ of ____

Received By (Print): Lisa Gilley — Log-In-Date: 7/13/95

Received By (Signature): Lisa Gilley

JOB #: 6520-21
SDG #: 180880
LANDFILL: Watauga County

Remarks:
1. Custody Seals ~~Present~~/Absent (Intact)/Broken
2. Cooler Temperature: 4°
3. Chain-of-Custody Records (Present)/Absent
4. Method of Shipment: del. by ETAS personnel
5. Sampling Event Date: 7/6, 7/12
6. Sample Condition: (Intact) Broken Leaking
7. Does information on custody records and samples agree? NO
8. Date Received at Lab 7/13/95
9. Time Received at Lab 1710 pm

Reviewed By: Lisa Gilley

Date: 7/13/95

FIELD Sample #	Corrosponding LAB Sample #	Remarks: Condition of sample shipment:
MW2	180880	Good
MW4	180881	
MW9	180882	
MW12	180883	
Trip Blank-2	180884	
Trip Blank 3	180885	

Sample Transfer

Fraction: ____ ____
Area #: ____ ____
By: ____ ____
On: ____ ____

CHAIN OF CUSTODY RECORD

SDG-2

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? X Yes ___ No (See Note 1)
Carrier: ETS pickup at DAA
Tracking No.: ___

Box 1: Matrix
SW. Surface Water
GW. Groundwater
L. Leachate
S. Soil
T. Trip Blank
E. Equipment Blank
P. Product
O. Other

Box 2: Preservative
A. HCl
B. HNO_3
C. H_2SO_4
D. $Na_2S_2O_3$
E. NaOH
F. ZnAc
G. Other (specify)
H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: X Yes ___ No
Bill: X Client ___ Consultant
Preserved and shipped on ice: X Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acrolacryl.	9030 SULFIDES								Special Instructions/Comments
MW-2	7/12	1730	GW	A	U	G	<2		3		X										
MW-2	7/12	1730	"	A	U	G	4-5		3			X									
MW-2	7/12	1730	"	H	U	G	...		2	X											
MW-2	7/12	1730	"	F	U	G	...		1				X								Sulfides unpreserved - preserve in lab
MW-4	7/12	1815	"	A	U	G	<2		3		X										
MW-4	7/12	1815	"	A	U	G	4-5		3			X									
MW-4	7/12	1815	"	H	U	G	...		2	X											
MW-4	7/12	1815	GW	F	U	G	...		1				X								Sulfides unpreserved - preserve in lab
~~MW~~				~~A~~	~~U~~	~~G~~	~~<2~~				~~X~~		~~X~~								

Special Instructions/Comments:
SEE ATTACHED PARAMETER LISTS
1. 8260 methods collected in 40 ml clear glass bottles.
2. 8270A method collected in 1 L amber glass bottles and maintained in the dark.
3. Sulfides collected in white plastic bottles.

Client's Special Instructions:

Lab: Received in Good Condition? ___ Yes ___ No Custody Seal Intact? ___ Yes ___ No Temp. on arrival ___ Received on Ice ___ Describe problems, if any:

Sampler Name (print): Jeff Pack	Date: 7-13-95	#1 Relinquished By (Sig.): Jeff Pack	Date: 7-13-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature: Jeff Pack	Time: 1100	Company Name: DAA	Time: 1615	Company Name:	Time:	
Sampler Name (print): Tom DiFonzo	Date: 7-13-95	#1 Received By (Sig.): Kim Altiger	Date: 7/13/95	#2 Received By (Sig.):	Date:	30 (No. Days)
Sampler Signature: Tom DiFonzo	Time: 1100	Company Name: ETSAS	Time: 1615	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

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CHAIN OF CUSTODY RECORD

SDG-2

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County Attn: Mr. Jim Ratchford Address: P.O. Box 143 Boone, NC Phone: (704) 265-8003 Fax: (704) 265-8018	Consultant: Draper Aden Assoc. Attn: Janet M. Cleary 2206 South Main Street Blacksburg, Virginia 24060 Phone: (703) 552-0444 Fax: (703) 552-0291	Sample Site: Watauga County Landfill Location: Watauga County, NC Event: 1st Semi-annual Assessment Monitoring JN: 6520-21 Lab JN:	Project Specific (PS) or Batch (B) QC: PS Sampling for Project Complete? _X_ Yes ___ No (See Note 1) Carrier: ETS pickup at DAA Tracking No.:

Box 1: Matrix
SW. Surface Water; GW. Groundwater; L. Leachate; S. Soil; T. Trip Blank; E. Equipment Blank; P. Product; O. Other

Box 2: Preservative
A. HCl; B. HNO_3; C. H_2SO_4; D. $Na_2S_2O_3$; E. NaOH; F. ZnAc; G. Other (specify); H. None

Box 3: Filtered/Unfiltered
F. Filtered; U. Unfiltered

Box 4: Sample Type
C. Composite; G. Grab

Copy to Consultant: _X_ Yes ___ No
Bill: _X_ Client ___ Consultant
Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19-95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acrolacryl	9030 SULFIDES	Special Instructions/Comments
MW-9 MS	7/12	0845	GW	A	U	G	<2	X	3		X			SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-9 MS	7/12	0845	GW	A	U	G	4-5	X	3			X		
MW-9 MS	7/12	0845	GW	H	U	G	---	X	2	X				
MW-9 MS	7/12	0845	GW	F	U	G	---	X	1				X	
MW-9 MSD	7/12	0845	GW	A	U	G	<2	X	3		X			
MW-9 MSD	7/12	0845	GW	A	U	G	4-5	X	3			X		
MW-9 MSD	7/12	0845	GW	H	U	G	---	X	2	X				
MW-9 SD	7/12	0845	GW	F	U	G	---	X	1				X	

Client's Special Instructions:

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): JEFF PACK	Date: 7-13-95	#1 Relinquished By (Sig.):	Date: 7-13-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:	
Sampler Signature:	Time: 1100	Company Name: DAA	Time: 1615	Company Name:	Time:		
Sampler Name (print):	Date: 7-13-95	#1 Received By (Sig.):	Date: 7/13/95	#2 Received By (Sig.):	Date:	30 (No. Days)	
Sampler Signature:	Time: 1100	Company Name ETSAS	Time: 1615	Company Name	Time:		

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-2

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County Attn: Mr. Jim Ratchford Address: P.O. Box 143 Boone, NC Phone: (704) 265 8003 Fax: (704) 265-8018	Consultant: Draper Aden Assoc. Attn: Janet M. Cleary 2206 South Main Street Blacksburg, Virginia 24060 Phone: (703) 552-0444 Fax: (703) 552-0291	Sample Site: Watauga County Landfill Location: Watauga County, NC Event: 1st Semi-annual Assessment Monitoring JN: 6520-21 Lab JN:	Project Specific (PS) or Batch (B) QC: PS Sampling for Project Complete? _X_ Yes ___ No (See Note 1) Carrier: ETS pickup at DAA Tracking No.:

Box 1: Matrix SW. Surface Water GW. Groundwater L. Leachate S. Soil T. Trip Blank E. Equipment Blank P. Product O. Other	Box 2: Preservative A. HCl B. HNO_3 C. H_2SO_4 D. $Na_2S_2O_3$ E. NaOH F. ZnAc G. Other (specify) H. None	Box 3: Filtered/Unfiltered F. Filtered U. Unfiltered	Box 4: Sample Type C. Composite G. Grab	Copy to Consultant: _X_ Yes ___ No Bill: _X_ Client ___ Consultant Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment) 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro/acryl.	9030 SULFIDES								Special Instructions/Comments
MW-12	7/12	1000	GW	A	U	G	<2		3		X										SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-12	7/12	1000	GW	A	U	G	4-5		3			X									
MW-12	7/12	1000	GW	H	U	G	...		2	X											
MW-12	7/12	1000	GW	F	U	G	...		1				X								
MW-9	7/12	0815	GW	A	U	G	<2		3		X										
MW-9	7/12	0815	GW	A	U	G	4-5		3			X									
MW-9	7/12	0815	GW	H	U	G	...		2	X											
MW-9	7/12	0815	GW	F	U	G	...		1				X								

Client's Special Instructions:

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Jeff Pack	Date: 7-13-95	#1 Relinquished By (Sig.): Jeff Pack	Date: 7-13-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:		
Sampler Signature: Jeff Pack	Time: 1168	Company Name: DAA	Time: 1615	Company Name:	Time:			
Sampler Name (print): Tom Dillon Jr	Date: 7-13-95	#1 Received By (Sig.): Kim Altiger	Date: 7/13/95	#2 Received By (Sig.):	Date:	30 (No. Days)		
Sampler Signature: Tom Dillon	Time: 1100	Company Name ETSAS	Time: 1615	Company Name	Time:			

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-2

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County Attn: Mr. Jim Ratchford Address: P.O. Box 143 Boone, NC Phone: (704) 265-8003 Fax: (704) 265-8018	Consultant: Draper Aden Assoc. Attn: Janet M. Cleary 2206 South Main Street Blacksburg, Virginia 24060 Phone: (703) 552-0444 Fax: (703) 552-0291	Sample Site: Watauga County Landfill Location: Watauga County, NC Event: 1st Semi-annual Assessment Monitoring JN: 6520-21 Lab JN:	Project Specific (PS) or Batch (B) QC: PS Sampling for Project Complete? _X_ Yes ___ No (See Note 1) Carrier: ETS pick up at DAA Tracking No.: ___

Box 1: Matrix SW. Surface Water GW. Groundwater L. Leachate S. Soil T. Trip Blank E. Equipment Blank P. Product O. Other	Box 2: Preservative A. HCl B. HNO_3 C. H_2SO_4 D. $Na_2S_2O_3$ E. NaOH F. ZnAc G. Other (specify) H. None	Box 3: Filtered/Unfiltered F. Filtered U. Unfiltered	Box 4: Sample Type C. Composite G. Grab

Copy to Consultant: _X_ Yes ___ No

Bill: _X_ Client ___ Consultant

Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro./acryl.	9030 SULFIDES								Special Instructions/Comments
TRIP BLANK- 2	7/6	1400		A	U	G	<2		3		X										SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
TRIP BLANK- 2	7/6	1400		A	U	G	4-5		3			X									
TRIP BLANK- 2	7/6	1400		H	U	G	...		2	X											
TRIP BLANK- 2	7/6	1400		F	U	G	...		1				X								

Client's Special Instructions:

Lab: Received in Good Condition? ___ Yes ___ No Custody Seal Intact? ___ Yes ___ No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): JEFF PACK	Date: 7-13-95	#1 Relinquished By (Sig.):	Date: 7-13-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:	
Sampler Signature:	Time: 1100	Company Name: DAA	Time: 1615	Company Name:	Time:		
Sampler Name (print): KEN DIXON	Date: 7-13-95	#1 Received By (Sig.): Kevin Altinger	Date: 7/13/95	#2 Received By (Sig.):	Date:	30 (No. Days)	
Sampler Signature:	Time: 1100	Company Name ETSAS	Time: 1615	Company Name	Time:		

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.

Note: Always mail invoice and results to consultant.

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ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW 2
Sample Matrix: GROUNDWATER
Project: 180880
Collected by: J. PACK
Description: WATAUGA COUNTY LANDFILL

ETS Lab Number:180880
Date Received: 07/13/95
Due Date: 08/02/95
Client No: 6973
Date: 07/12/95 Time: 1730

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Sulfide	138			MG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW 4
Sample Matrix: GROUNDWATER
Project: 180580
Collected by: J. PACK
Description: WATAUGA COUNTY LANDFILL

ETS Lab Number:180881
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/12/95 Time: 1815

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Sulfide	138			MG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW 9
Sample Matrix: GROUNDWATER
Project: 180880
Collected by: J. PACK
Description: WATAUGA COUNTY LANDFILL

ETS Lab Number: 180882
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6972
Date: 07/12/95 Time: 0845

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Sulfide	138			MG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW 12
Sample Matrix: GROUNDWATER
Project: 180880
Collected by: J. PACK
Description: WATAUGA COUNTY LANDFILL

ETS Lab Number: 180882
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/12/95 Time: 1000

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Sulfide	138			MG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: TRIP BLANK-2
Sample Matrix: WATER
Project: 180880
Collected by: J. PACK
Description: WATAUGA COUNTY LANDFILL

ETS Lab Number: 180884
Date Received: 07/13/95
Due Date: 08/02/95
Client No: 6973
Date: 07/06/95 Time: 1400

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Sulfide	138			MG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

[3851]

DRAPER ADEN pH LOG

LANDFILL: Watauga Co. JOB #: 6520-21 SDG NUMBER: 180851

DATE	INT.	FIELD ID NUMBER	LAB ID NUMBER	SAMPLE DESCRIPTION	TEMP.	8260 <2	8260 Acid. 4-5	8270	Sulfide							PROBLEMS:
7/13/95	LKG/SBB	MW1	180851	clear/colorless	2°	<2	5	✓	>12							D/S
		MW3	180852	cloudy/beige	2°	<2	5	✓	>12							
		MW6	180853	clear/colorless	2°	<2	5	✓	>12							
		MW7	180854	opaque/colorless	2°	✓	—	✓	—							8270 + 8260 very low volume
		MW8	180855	cloudy/colorless	2°	<2	<2	✓	>12							
		MW10	180856	opaque/colorless	2°	<2	5	✓	>12							
		MW11	180857	clear/colorless	2°	<2	<2	✓	>12							
		MW17	180858	clear/colorless	2°	<2	5	✓	>12							
		TripBlank1	180859	clear/colorless	2°	<2	5	—	>12							
		MW1A	180860	clear/colorless	2°	<2	—	—	—							

CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? X Yes ___ No (See Note 1)
Carrier: FEDERAL EXPRESS
Tracking No.: HKYA76.

Box 1: Matrix
SW. Surface Water, GW. Groundwater, L. Leachate, S. Soil, T. Trip Blank, E. Equipment Blank, P. Product, O. Other

Box 2: Preservative
A. HCl, B. HNO_3, C. H_2SO_4, D. $Na_2S_2O_3$, E. NaOH, F. ZnAc, G. Other (specify), H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: X Yes ___ No
Bill: X Client ___ Consultant
Preserved and shipped on ice: X Yes ___ No

Analytical Method (Assessment)

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro.Jacryl.	9030 SULFIDES								
MW-1	7/10	1230	GW	A	U	G	<2		3		X										
MW-1	7/10	1230	GW	A	U	G	4-5		3			X									
MW-1	7/10	1230	GW	H	U	G	---		2	X											
MW-1	7/10	1230	GW	F	U	G	---		1				X								
MW-1 MS	7/10	1230	GW	A	U	G	<2	X	3		X										
MW-1 MS	7/10	1230	GW	A	U	G	4-5	X	3			X									
MW-1 MS	7/10	1230	GW	H	U	G	---	X	2	X											
MW-1 MS	7/10	1230	GW	F	U	G	---	X	1				X								

Special Instructions/Comments

SEE ATTACHED PARAMETER LISTS

1. 8260 methods collected in 40 ml clear glass bottles.
2. 8270A method collected in 1 L amber glass bottles and maintained in the dark.
3. Sulfides collected in white plastic bottles.

Client's Special Instructions:

Lab: Received in Good Condition? ___ Yes ___ No Custody Seal Intact? ✓ Yes ___ No Temp. on arrival 2°C. Received on Ice Yes Describe problems, if any:

Sampler Name (print): [signature]	Date: 7-12-95	#1 Relinquished By (Sig.): [signature]	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature: [signature]	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): JEFF PACK	Date: 7-12-95	#1 Received By (Sig.): Sherry Romonger	Date: 7-12-95	#2 Received By (Sig.): [signature]	Date: 7-13-95	30 (No. Days)
Sampler Signature: [signature]	Time: 1300	Company Name Watauga County	Time: 2:15pm	Company Name ETSAS	Time: 0900	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

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CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? X Yes ___ No (See Note 1)
Carrier: Federal Express
Tracking No.: HKYA 76

Box 1: Matrix
SW. Surface Water
GW. Groundwater
L. Leachate
S. Soil
T. Trip Blank
E. Equipment Blank
P. Product
O. Other

Box 2: Preservative
A. HCl
B. HNO_3
C. H_2SO_4
D. $Na_2S_2O_3$
E. NaOH
F. ZnAc
G. Other (specify)
H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: X Yes ___ No
Bill: X Client ___ Consultant
Preserved and shipped on ice: X Yes ___ No

Analytical Method (Assessment)

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro./acryl.	9030 SULFIDES								Special Instructions/Comments
MW-1 MSD	7/10	1230	GW	A	U	G	<2	X	3		X										SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-1 MSD	7/10	1230	GW	A	U	G	4-5	X	3			X									
MW-1 MSD	7/10	1230	GW	H	U	G	---	X	2	X											
MW-1 SD	7/10	1230	GW	F	U	G	---	X	1				X								
MW-6	7/10	1430	GW	A	U	G	<2		3		X										
MW-6	7/10	1430	GW	A	U	G	4-5		3			X									
MW-6	7/10	1430	GW	H	U	G	---		2	X											
MW-6	7/10	1430	GW	F	U	G	---		1				X								

Client's Special Instructions:

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): [signature]	Date: 7-12-95	#1 Relinquished By (Sig.): [signature]	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature: [signature]	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): JEFF PACK	Date: 7-12-95	#1 Received By (Sig.): [signature]	Date: 7-12-95	#2 Received By (Sig.):	Date:	30 (No. Days)
Sampler Signature: [signature]	Time: 1300	Company Name: Watauga County	Time: 2:15pm	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

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CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265 8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? _X_ Yes ___ No (See Note 1)
Carrier: Federal Express
Tracking No.: HKYA76

Box 1: Matrix
SW. Surface Water
GW. Groundwater
L. Leachate
S. Soil
T. Trip Blank
E. Equipment Blank
P. Product
O. Other

Box 2: Preservative
A. HCl
B. HNO_3
C. H_2SO_4
D. $Na_2S_2O_3$
E. NaOH
F. ZnAc
G. Other (specify)
H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: _X_ Yes ___ No
Bill: _X_ Client ___ Consultant
Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro/Acryl.	9030 SULFIDES								Special Instructions/Comments
MW-3	7/10	1530	GW	A	U	G	<2		3		X										
MW-3	7/10	1530	GW	A	U	G	4-5		3			X									
MW-3	7/10	1530	GW	H	U	G	--		2	X											
MW-3	7/10	1530	GW	F	U	G	--		1				X								
MW-7	7/10	1620	GW	A	U	G	<2		1		X										1 bottle 8260 only (insufficient H_2O)
~~MW-7~~				~~A~~	~~U~~	~~G~~	~~4-5~~					X									insufficient H_2O
MW-7	7/11	1530	GW	H	U	G	--		1	X											collected only approx. 200 ml (insuff. H_2O)
~~MW-7~~				~~A~~	~~U~~	~~G~~							X								insufficient H_2O

Client's Special Instructions:

SEE ATTACHED PARAMETER LISTS

1. 8260 methods collected in 40 ml clear glass bottles.
2. 8270A method collected in 1 L amber glass bottles and maintained in the dark.
3. Sulfides collected in white plastic bottles.

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Ken DeVore	Date: 7-12-95	#1 Relinquished By (Sig.):	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature:	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Received By (Sig.): Sherri Tomlinson	Date: 7-12-95	#2 Received By (Sig.):	Date:	30 (No. Days)
Sampler Signature:	Time: 1300	Company Name: Watauga County	Time: 2:15pm	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County Attn: Mr. Jim Ratchford Address: P.O. Box 143 Boone, NC Phone: (704) 265-8003 Fax: (704) 265-8018	Consultant: Draper Aden Assoc. Attn: Janet M. Cleary 2206 South Main Street Blacksburg, Virginia 24060 Phone: (703) 552-0444 Fax: (703) 552-0291	Sample Site: Watauga County Landfill Location: Watauga County, NC Event: 1st Semi-annual Assessment Monitoring JN: 6520-21 Lab JN:	Project Specific (PS) or Batch (B) QC: PS Sampling for Project Complete? X Yes ___ No (See Note 1) Carrier: Federal Express Tracking No.: HKYA76

Box 1: Matrix SW. Surface Water GW. Groundwater L. Leachate S. Soil T. Trip Blank E. Equipment Blank P. Product O. Other	Box 2: Preservative A. HCl B. HNO_3 C. H_2SO_4 D. $Na_2S_2O_3$ E. NaOH F. ZnAc G. Other (specify) H. None	Box 3: Filtered/Unfiltered F. Filtered U. Unfiltered	Box 4: Sample Type C. Composite G. Grab	Copy to Consultant: X Yes ___ No Bill: X Client ___ Consultant Preserved and shipped on ice: X Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro./acryl.	9030 SULFIDES	Special Instructions/Comments
MW-8	7/10	1645	GW	A	U	G	<2		3		X			SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-8	7/10	1645	GW	A	U	G	4-5		3			X		
MW-8	7/10	1645	GW	H	U	G	--		2	X				
MW-8	7/10	1645	GW	F	U	G	--		1				X	
MW-11	7/11	0930	GW	A	U	G	<2		3		X			
MW-11	7/11	0930	GW	A	U	G	4-5		3			X		
MW-11	7/11	0930	GW	H	U	G	--		2	X				
MW-11	7/11	0930	GW	F	U	G	--		1				X	

Cap cracked on one 8270 bottle.

Client's Special Instructions:

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival_____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Ken Dotson	Date: 7-12-95	#1 Relinquished By (Sig.):	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested: 30 (No. Days)
Sampler Signature:	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Received By (Sig.):	Date: 7-12-95	#2 Received By (Sig.):	Date:	
Sampler Signature:	Time: 1300	Company Name: Watauga County	Time: 2:15pm	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.

Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? _X_ Yes ___ No (See Note 1)
Carrier: Federal Express
Tracking No.: HKYA 76

Box 1: Matrix
SW. Surface Water — T. Trip Blank
GW. Groundwater — E. Equipment Blank
L. Leachate — P. Product
S. Soil — O. Other

Box 2: Preservative
A. HCl — E. NaOH
B. HNO_3 — F. ZnAc
C. H_2SO_4 — G. Other (specify)
D. $Na_2S_2O_3$ — H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: _X_ Yes ___ No
Bill: _X_ Client ___ Consultant
Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro/Acryl.	9030 SULFIDES	Special Instructions/Comments
MW-10	7/11	1030	GW	A	U	G	<2		3		X			SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-10	7/11	1030	GW	A	U	G	4-5		3			X		
MW-10	7/11	1030	GW	H	U	G	...		2	X				
MW-10	7/11	1030	GW	F	U	G	...		1				X	
~~MW-~~				A	U	G	<2				X		JSR	
~~MW-~~				A	U	G	4-5					X	JSR	
~~MW-~~				H	U	G				X			JSR	
~~MW-~~				F	U	G							X JSR	
~~MW-~~				A	U	G	<2				X		JSR	

Client's Special Instructions:

Lab: Received in Good Condition? ___ Yes ___ No Custody Seal Intact? ___ Yes ___ No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Relinquished By (Sig.): J Pack	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested: 30 (No. Days)
Sampler Signature: Jeff Pack	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): JEFF PACK	Date: 7-12-95	#1 Received By (Sig.): Sherry Romines	Date: 7-12-95	#2 Received By (Sig.):	Date:	
Sampler Signature: J Pack	Time: 1300	Company Name: Watauga County	Time: 2:15pm	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? X Yes ___ No (See Note 1)
Carrier: Federal Express
Tracking No.: HKYA 76

Box 1: Matrix
SW. Surface Water
GW. Groundwater
L. Leachate
S. Soil
T. Trip Blank
E. Equipment Blank
P. Product
O. Other

Box 2: Preservative
A. HCl
B. HNO_3
C. H_2SO_4
D. $Na_2S_2O_3$
E. NaOH
F. ZnAc
G. Other (specify)
H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: X Yes ___ No
Bill: X Client ___ Consultant
Preserved and shipped on ice: X Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro/Acryl.	9030 SULFIDES								Special Instructions/Comments
MW-17	7/11	1220	GW	A	U	G	<2		3		X										SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
MW-17	7/11	1220	GW	A	U	G	4.5		3			X									
MW-17	7/11	1220	GW	H	U	G	---		2	X											
MW-17	7/11	1220	GW	F	U	G	---		1				X								
MW-1A	7/12	0730	GW	A	U	G	<2		3		X										
~~MW-~~				~~A~~	~~U~~	~~G~~	~~4.5~~					X	3&l								
~~MW-~~				~~H~~	~~U~~	~~G~~	~~---~~			X			3&l								
~~MW-~~				~~F~~	~~U~~	~~G~~							X	3&l							

Client's Special Instructions:

Lab: Received in Good Condition? ___ Yes ___ No Custody Seal Intact? ___ Yes ___ No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Relinquished By (Sig.):	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature:	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): JEFF PACK	Date: 7-12-95	#1 Received By (Sig.): Sherry Tomme	Date: 7-12-95	#2 Received By (Sig.):	Date:	6 MO ~~(No. Days)~~
Sampler Signature:	Time: 1300	Company Name: Watauga County	Time: 2:15pm	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

CHAIN OF CUSTODY RECORD

SDG-1

Laboratory: ETS Analytical Services 1401 Municipal Road NW Roanoke, VA 24012-1309 (703) 265-0004 FAX (703) 563-4866 Attn: Sue Deegan

Client: Watauga County
Attn: Mr. Jim Ratchford
Address: P.O. Box 143
Boone, NC
Phone: (704) 265-8003 Fax: (704) 265-8018

Consultant: Draper Aden Assoc.
Attn: Janet M. Cleary
2206 South Main Street
Blacksburg, Virginia 24060
Phone: (703) 552-0444 Fax: (703) 552-0291

Sample Site: Watauga County Landfill
Location: Watauga County, NC
Event: 1st Semi-annual Assessment Monitoring
JN: 6520-21 Lab JN:

Project Specific (PS) or Batch (B) QC: PS
Sampling for Project Complete? _X_ Yes ___ No (See Note 1)
Carrier: Federal Express
Tracking No.: HKYA 76

Box 1: Matrix
SW. Surface Water
GW. Groundwater
L. Leachate
S. Soil
T. Trip Blank
E. Equipment Blank
P. Product
O. Other

Box 2: Preservative
A. HCl
B. HNO_3
C. H_2SO_4
D. $Na_2S_2O_3$
E. NaOH
F. ZnAc
G. Other (specify)
H. None

Box 3: Filtered/Unfiltered
F. Filtered
U. Unfiltered

Box 4: Sample Type
C. Composite
G. Grab

Copy to Consultant: _X_ Yes ___ No
Bill: _X_ Client ___ Consultant
Preserved and shipped on ice: _X_ Yes ___ No

Sample I.D.	Date 19 95	Time	Box 1 Matrix	Box 2 Preservative	Box 3 Filtered/Unfiltered	Box 4 Sample Type	pH	Use as Lab QC (MS/MSD/SD)	Total No. of Bottles	Analytical Method (Assessment): 8270A SEMI-VOLATILES	8260 VOLATILES	8260 Acro/acryl.	9030 SULFIDES	Special Instructions/Comments
TRIP BLANK- 1	7/6	1400	T	A	U	G	<2		3		X			SEE ATTACHED PARAMETER LISTS 1. 8260 methods collected in 40 ml clear glass bottles. 2. 8270A method collected in 1 L amber glass bottles and maintained in the dark. 3. Sulfides collected in white plastic bottles.
TRIP BLANK- 1	7/6	1400	T	A	U	G	4-5		3			X		
TRIP BLANK- 1	7/6	1400	T	H	U	G	--		1	X				
TRIP BLANK- 1	7/6	1400	T	F	U	G	--		1				X	

Client's Special Instructions:

Lab: Received in Good Condition? ___Yes ___No Custody Seal Intact? ___Yes ___No Temp. on arrival _____ Received on Ice _____ Describe problems, if any:

Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Relinquished By (Sig.):	Date: 7-12-95	#2 Relinquished By (Sig.):	Date:	Sample Storage Time Requested:
Sampler Signature:	Time: 1300	Company Name: DAA	Time: 1415	Company Name:	Time:	
Sampler Name (print): Jeff Pack	Date: 7-12-95	#1 Received By (Sig.):	Date: 7-12-95	#2 Received By (Sig.):	Date:	6 MO (No. Days)
Sampler Signature:	Time: 1300	Company Name: Watauga County	Time: 2:15PM	Company Name	Time:	

Note (1): If "No" lab to hold samples to await remainder of project maximizing batch size and minimizing QC ratio. If "Yes", lab to begin processing.
Note: Always mail invoice and results to consultant.

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW1
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number:180851
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/10/95 Time: 1230

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW3
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA

ETS Lab Number: 180852
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/10/95 Time: 1530

Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Semi-Volatiles/Draper Aden	DA8NA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW6
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number: 180853
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/10/95 Time: 1430

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Semi-Volatiles/Draper Aden	DABNA			UG/L
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW7
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number:180854
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/11/95 Time: 1530

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MWS
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number:180855
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/10/95 Time: 1645

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW10
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number: 180856
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/11/95 Time: 1030

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW11
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number: 130857
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/11/95 Time: 0930

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: MW17
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number: 180858
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/11/95 Time: 1220

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ETS ANALYTICAL SERVICES
Laboratory Data

Client Name: Draper Aden Associates
Client/Field ID: TRIP BLANK 1
Sample Matrix: GROUNDWATER
Project: 180851
Collected by: L. DiIOIA
Description: WATAUGA CO./1ST SEMI-ANNUAL ASSESSMENT MONITORING

ETS Lab Number: 180859
Date Received: 07/13/95
Due Date: 08/03/95
Client No: 6973
Date: 07/06/95 Time: 1400

>>>> ANALYTES TO IDENTIFIED AND MEASURED <<<<

Test(s) to be Performed	TCode	Test Result	FG	UNITS
Volatiles/Draper Aden	DAVOA			UG/L
Acrylonitrile/Draper Aden	DAACR			UG/L
Semi-Volatiles/Draper Aden	DABNA			UG/L
Sulfide	138			MG/L

Comments: _____

Released By: _____ Date of Release: _____

ANALYTICAL METHOD: 8270A
TYPE METHOD: GCMS
CLASS: SEMI-VOLATILE

LANDFILL: Watauga County NC
SAMPLING EVENT: 1st Semi-annual Assessment
SAMPLING DATE: July 10-14, 1995
DAA JN: 6520-21

NORTH CAROLINA ASSESSMENT
SW-846 TABLE 2 PARAMETERS

No.	PARAMETER		CAS RN
1	Acenapthene		83-32-9
2	Acenapthylene		208-96-8
3	Acetophenone		98-86-2
4	2-acetylaminofluorene		53-96-3
5	4-aminobiphenyl		92-67-1
6	Anthracene	(class: PNA)	120-12-7
7	Benzo[a]anthracene	(class: PNA)	56-55-3
8	Benzo[b]fluoranthene	(class: PNA)	205-99-2
9	Benzo[k]fluoranthene	(class: PNA)	207-08-9
10	Benzo[ghi]perylene	(class: PNA)	191-24-2
11	Benzyl alcohol		100-51-6
12	bis(2-chloroethoxy) methane		111-91-1
13	bis(2-chloroethyl) ether		111-44-4
14	bis(2-chloro-1-methylethyl) ether		108-60-1
15	bis(2-ethylhexyl) phthalate		117-81-7
16	4-bromophenyl phenyl ether		101-55-3
17	Butyl benzyl phthalate		85-68-7
18	p-chloroaniline		106-47-8
19	Chlorobenzilate		510-15-6
20	p-chloro-m-cresol		59-50-7
21	2-chloronapthalene		91-58-7
22	2-chlorophenol		95-57-8
23	4-chlorophenyl phenyl ether		7005-72-3
24	Chrysene	(class: PNA)	218-01-9
25	m-cresol		108-39-4
26	o-cresol		95-48-7
27	p-cresol		106-44-5
28	Diallate		2303-16-4
29	Dibenz[a,h]anthracene	(class: PNA)	53-70-3
30	Dibenzofuran		132-64-9
31	di-n-butyl phthalate		84-74-2
32	3,3'-dichlorobenzidine		91-94-1
33	2,4-dichlorophenol		120-83-2
34	2,6-dichlorophenol		87-65-0
35	Diethyl phthalate		84-66-2

37	Dimethoate	(class: OP pesticide)	60-51-5
38	p-(dimethylamino)azobenzene		60-11-7
39	7,12-dimethylbenz[a]anthracene		57-97-6
40	3,3'-dimethylbenzidine		119-93-7
41	2,4-dimethylphenol		105-67-9
42	Dimethyl phthalate		131-11-3
43	m-dinitrobenzene		99-65-0
44	4,6-dinitro-o-cresol		534-52-1
45	2,4-dinitrophenol		51-28-5
46	2,4-dinitrotoluene		121-14-2
47	2,6-dinitrotoluene		606-20-2
48	di-n-octyl phthalate		117-84-0
49	Diphenylamine		122-39-4
50	Disulfoton	(class: OP pesticide)	298-04-4
51	Ethyl methacrylate		97-63-2
52	Ethyl methanesulfonate		62-50-0
53	Famphur		52-85-7
54	Fluoranthene	(class: PNA)	206-44-0
55	Fluorene	(class: PNA)	86-73-7
56	Hexachlorobutadiene		87-68-3
57	Hexachlorocyclopentadiene		77-47-4
58	Hexachloroethane		67-72-1
59	Hexachloropropene		1888-71-7
60	Indeno[1,2,3-cd] pyrene	(class: PNA)	193-39-5
61	Isodrin		465-73-6
62	Isophorone		78-59-1
63	Isosafrole		120-58-1
64	Kepone		143-50-0
65	Methapyrilene		91-80-5
66	3-methylcholanthrene		56-49-5
67	Methyl methanesulfonate		66-27-3
68	2-methylnapthalene		91-57-6
69	Methyl parathion		298-00-0
70	Napthalene		91-20-3
71	1,4-napthoquinone		130-15-4
72	1-napthylamine		134-32-7
73	2-napthylamine		91-59-8
74	o-nitroaniline		88-74-4
75	m-nitroaniline		99-09-2
76	p-nitroaniline		100-01-6
77	Nitrobenzene		98-95-3
78	o-nitrophenol		88-75-5
79	p-nitrophenol		100-02-7
80	N-nitrosodi-n-butylamine		924-16-3
81	N-nitrosodiethylamine		55-18-5
82	N-nitrosodimethylamine		62-75-9

83	N-nitrosodiphenylamine		86-30-6
84	N-nitrosodipropylamine		621-64-7
85	N-nitrosomethylethylamine		10595-95-6
86	N-nitrosopiperidine		100-75-4
87	N-nitrosopyrrolidine		930-55-2
88	5-nitro-o-toluidine		99-55-8
89	Parathion	(class: OP pesticide)	56-38-2
90	Pentachlorobenzene		608-93-5
91	Pentachloronitrobenzene		82-68-8
92	Phenacetin		62-44-2
93	Phenanthrene	(class: PNA)	85-01-8
94	Phenol		108-95-2
95	p-phenylenediamine		106-50-3
96	Phorate	(class: OP pesticide)	298-02-2
97	Pronamide		23950-58-5
98	Pyrene	(class: PNA)	129-00-0
99	Safrole		94-59-7
100	1,2,4,5-tetrachlorobenzene		95-94-3
101	2,3,4,6-tetrachlorophenol		58-90-2
102	o-toluidine		95-53-4
103	2,4,5-trichlorophenol		95-95-4
104	2,4,6-trichlorophenol		88-06-2
105	O,O,O-triethyl phosphorothioate		126-68-1
106	sym-trinitrobenzene		99-35-4

QC Summary

- Surrogate Summary (Form II)
- Matrix Spike Summary (Form III)
- Method Blank Summary (Form IV)
- GC/MS Instrument Performance Check (Form V)
- Internal Standard Area and RT Summary (Form VIII)

Watauga County Landfill
Watauga County, North Carolina
1st Semi-Annual Assessment Monitoring
SDG #180851

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

	SAMPLE NO.	S1 (FBP) #	S2 (PNL) #	S3 (CPL) #	S4 (DCB) #	S5 (NTB) #	S6 (FBP) #	S7 (TBP) #	S8 (TRP) #	TOT OUT
01	SBLK07	58	61	62	52	57	62	67	59	
02	TRIP BLANK	67	71	74	62	69	75	83	72	
03	MW-01	54	58	59	50	56	59	69	57	
04	MW-03	78	83	85	72	82	88	102	82	
05	MW-06	57	68	72	70	82	85	84	51	
06	SBLK08	73	77	79	65	69	77	80	83	
07	TRIP BLANK 2	60	64	65	54	58	65	71	75	
08	MW-01MS	55	57	57	49	52	51	69	60	
09	MW-01MSD	58	63	62	54	61	65	81	68	
10	MW-07	74	79	80	66	74	80	87	92	
11	MW-08	49	58	61	65	74	80	72	78	
12	MW-10	80	83	85	73	80	84	91	79	
13	MW-11	59	66	71	67	71	77	65	62	
14	MW-17	1 *	10	5 *	61	67	73	3 *	68	3
15	MW-02	65	70	72	62	66	69	66	56	
16	MW-04	64	68	70	58	63	71	81	83	
17	MW-09	14 *	21	27 *	60	69	78	42	82	2
18	MW-09MS	41	48	52	64	72	75	58	69	
19	MW-09MSD	39	47	50	59	68	75	60	72	
20	MW-12	64	67	68	59	62	70	81	80	
21	SBLK14	54	53	55	39	48	52	66	69	
22	MW-17RE	0 *	3 *	2 *	35	46	51	0 *	70	4
23	MW-02RE	57	56	61	42	52	59	83	60	
24	MW-04RE	54	45	57	38	49	51	66	63	
25	MW-09RE	16 *	19	26 *	37	52	57	38	80	2
26	MW-12R	64	60	67	48	53	60	89	78	
27										
28										
29										
30										

	QC LIMITS
S1 (FBP) = 2-Fluorophenol	(21-100)
S2 (PNL) = Phenol-d5	(10-94)
S3 (CPL) = 2-Chlorophenol-d4	(33-110)
S4 (DCB) = 1,2-Dichlorobenzene-d4	(16-110)
S5 (NTB) = Nitrobenzene-d5	(35-114)
S6 (FBP) = 2-Fluorobiphenyl	(43-116)
S7 (TBP) = 2,4,6-Tribromophenol	(10-123)
S8 (TRP) = Terphenyl-d14	(33-141)

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: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Matrix Spike - Sample No.: MW-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0	39	52	(12-110)
2-Chlorophenol	75	0	40	53	(27-123)
1,4-Dichlorobenzene	50	0	27	54	(36-97)
N-Nitroso-di-n-propylamine	50	0	28	56	(41-116)
1,2,4-Trichlorobenzene	50	0	29	58	(39-98)
4-Chloro-3-methylphenol	75	0	40	53	(23-97)
2,4-Dinitrotoluene	50	0	33	66	(24-96)
Acenaphthene	50	0	28	56	(46-118)
4-Nitrophenol	75	0	42	56	(10-80)
Pentachlorophenol	75	0	41	55	(9-103)
Pyrene	50	0	35	70	(26-127)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	44	59	12	42	(12-110)
2-Chlorophenol	75	45	60	12	40	(27-123)
1,4-Dichlorobenzene	50	30	60	11	28	(36-97)
N-Nitroso-di-n-propylamine	50	37	74	28	38	(41-116)
1,2,4-Trichlorobenzene	50	33	66	13	28	(39-98)
4-Chloro-3-methylphenol	75	51	68	24	42	(23-97)
2,4-Dinitrotoluene	50	37	74	11	38	(24-96)
Acenaphthene	50	36	72	25	31	(46-118)
4-Nitrophenol	75	46	61	9	50	(10-80)
Pentachlorophenol	75	55	73	29	50	(9-103)
Pyrene	50	41	82	16	31	(26-127)

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: _____

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Matrix Spike - Sample No.: MW-09

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0	38	51	(12-110)
2-Chlorophenol	75	0	42	56	(27-123)
1,4-Dichlorobenzene	50	0	41	82	(36-97)
N-Nitroso-di-n-propylamine	50	0	46	92	(41-116)
1,2,4-Trichlorobenzene	50	0	43	86	(39-98)
4-Chloro-3-methylphenol	75	0	46	61	(23-97)
2,4-Dinitrotoluene	50	0	45	90	(24-96)
Acenaphthene	50	0	45	90	(46-118)
4-Nitrophenol	75	0	55	73	(10-80)
Pentachlorophenol	75	0	51	68	(9-103)
Pyrene	50	0	51	102	(26-127)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	75	38	51	0	42	(12-110)
2-Chlorophenol	75	41	55	2	40	(27-123)
1,4-Dichlorobenzene	50	38	76	8	28	(36-97)
N-Nitroso-di-n-propylamine	50	47	94	2	38	(41-116)
1,2,4-Trichlorobenzene	50	43	86	0	28	(39-98)
4-Chloro-3-methylphenol	75	49	65	6	42	(23-97)
2,4-Dinitrotoluene	50	48	96	6	38	(24-96)
Acenaphthene	50	47	94	4	31	(46-118)
4-Nitrophenol	75	61	81 *	10	50	(10-80)
Pentachlorophenol	75	51	68	0	50	(9-103)
Pyrene	50	52	104	2	31	(26-127)

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: 1 out of 22 outside limits

Comments: _____

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLK07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: SPBLK07.D Lab Sample ID: SPBLK07

Instrument ID: MS5971.B Date Extracted: 7/14/95

Matrix: (soil/water) WATER Date Analyzed: 7/18/95

Level: (low/med) Time Analyzed: 1733

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	TRIP BLANK	180859S	180859.D	07/18/95
02	MW-01	180851S	180851.D	07/18/95
03	MW-03	180852S	180852.D	07/18/95
04	MW-06	180853S	180853.D	07/18/95
05	MW-01MS	180851MS	180851MS.D	07/19/95
06	MW-01MSD	180851SD	180851SD.D	07/19/95
07	MW-07	180854S	180854.D	07/19/95
08	MW-08	180855S	180855.D	07/19/95
09	MW-10	180856S	180856.D	07/19/95
10	MW-11	180857S	180857.D	07/19/95
11	MW-17	180858S	180858.D	07/19/95
12				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLK08

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: SPBLK08.D Lab Sample ID: SPBLK08

Instrument ID: MS5971.B Date Extracted: 7/17/95

Matrix: (soil/water) WATER Date Analyzed: 7/19/95

Level: (low/med) Time Analyzed: 1338

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	TRIP BLANK 2	180884S	180884.D	07/19/95
02	MW-02	180880S	180880.D	07/20/95
03	MW-04	180881S	180881.D	07/20/95
04	MW-09	180882S	180882.D	07/20/95
05	MW-09MS	180882MS	180882MS.D	07/20/95
06	MW-09MSD	180882SD	180882SD.D	07/20/95
07	MW-12	180883S	180883.D	07/20/95
08	MW-12R	180883R	180883R.D	07/31/95
09				
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COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

SBLK14

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: SPBLK14.D Lab Sample ID: SPBLK14

Instrument ID: MS5971. B Date Extracted: 7/20/95

Matrix: (soil/water) WATER Date Analyzed: 7/31/95

Level: (low/med) Time Analyzed: 1510

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	MW-17RE	180858R	180858RE.D	07/31/95
02	MW-02RE	180880R	180880RE.D	07/31/95
03	MW-04RE	180881R	180881RE.D	07/31/95
04	MW-09RE	180882R	180882RE.D	07/31/95
05				
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COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN01.D DFTPP Injection Date: 7/10/95

Instrument ID: MS5971.B DFTPP Injection Time: 1631

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	41.7
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	55.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.1
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	16.3
365	Greater than 1.0% of mass 198	1.5
441	Present, but less than mass 443	7.1
442	40.0 - 99.0% of mass 198	48.7
443	17.0 - 23.0% of mass 442	8.9 (18.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	1SCAL020	1SCAL020.D	7/10/95	1651
02	SSTD050	1SCAL050	1SCAL050.D	7/10/95	1744
03	SSTD080	1SCAL080	1SCAL080.D	7/10/95	1836
04	SSTD120	1SCAL120	1SCAL120.D	7/10/95	1928
05	SSTD160	1SCAL160	1SCAL160.D	7/10/95	2020
06	SSTD200	1SCAL200	1SCAL200.D	7/10/95	2112
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN02.D DFTPP Injection Date: 7/11/95

Instrument ID: MS5971.B DFTPP Injection Time: 0329

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.9
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	17.4
365	Greater than 1.0% of mass 198	1.5
441	Present, but less than mass 443	8.0
442	40.0 - 99.0% of mass 198	55.8
443	17.0 - 23.0% of mass 442	10.6 (19.0)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	7SCAL020	7SCAL020.D	7/11/95	0350
02	SSTD050	7SCAL050	7SCAL050.D	7/11/95	0443
03	SSTD080	7SCAL080	7SCAL080.D	7/11/95	0535
04	SSTD120	7SCAL120	7SCAL120.D	7/11/95	0628
05	SSTD160	7SCAL160	7SCAL160.D	7/11/95	0720
06	SSTD020	8SCAL020	8SCAL020.D	7/11/95	0813
07	SSTD050	8SCAL050	8SCAL050.D	7/11/95	0905
08	SSTD080	8SCAL080	8SCAL080.D	7/11/95	0958
09	SSTD120	8SCAL120	8SCAL120.D	7/11/95	1051
10	SSTD160	8SCAL160	8SCAL160.D	7/11/95	1143
11	SSTD200	8SCAL200	8SCAL200.D	7/11/95	1235
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN03.D DFTPP Injection Date: 7/11/95

Instrument ID: MS5971.B DFTPP Injection Time: 1326

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	37.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.8
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.8
275	10.0 - 30.0% of mass 198	17.9
365	Greater than 1.0% of mass 198	1.5
441	Present, but less than mass 443	7.9
442	40.0 - 99.0% of mass 198	52.7
443	17.0 - 23.0% of mass 442	10.4 (19.8)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	9SCAL020	9SCAL020.D	7/11/95	1348
02	SSTD050	9SCAL050	9SCAL050.D	7/11/95	1420
03	SSTD080	9SCAL080	9SCAL080.D	7/11/95	1532
04	SSTD120	9SCAL120	9SCAL120.D	7/11/95	1625
05	SSTD160	9SCAL160	9SCAL160.D	7/11/95	1717
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN04.D DFTPP Injection Date: 7/11/95

Instrument ID: MS5971.B DFTPP Injection Time: 2226

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	36.1
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	46.8
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	18.7
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	8.2
442	40.0 - 99.0% of mass 198	55.9
443	17.0 - 23.0% of mass 442	11.5 (20.5)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD020	KPNE020	KPNE020.D	7/11/95	2303
02	SSTD050	KPNE050	KPNE050.D	7/11/95	2356
03	SSTD080	KPNE080	KPNE080.D	7/12/95	0048
04	SSTD120	KPNE120	KPNE120.D	7/12/95	0141
05	SSTD160	KPNE160	KPNE160.D	7/12/95	0233
06	SSTD200	KPNE200	KPNE200.D	7/12/95	0326
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN06.D DFTPP Injection Date: 7/18/95

Instrument ID: MS5971.B DFTPP Injection Time: 0759

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.4
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	19.2
365	Greater than 1.0% of mass 198	2.2
441	Present, but less than mass 443	9.2
442	40.0 - 99.0% of mass 198	56.2
443	17.0 - 23.0% of mass 442	10.8 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	3SCAL020	3SCAL020	3SCAL020.D	7/18/95	0820
02	3SCAL050	3SCAL050	3SCAL050.D	7/18/95	0913
03	3SCAL080	3SCAL080	3SCAL080.D	7/18/95	1005
04	3SCAL120	3SCAL120	3SCAL120.D	7/18/95	1057
05	3SCAL160	3SCAL160	3SCAL160.D	7/18/95	1149
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID: STUN13.D DFTPP Injection Date: 7/29/95

Instrument ID: MS5971.B DFTPP Injection Time: 1037

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	43.6
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	46.4
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	18.2
365	Greater than 1.0% of mass 198	1.7
441	Present, but less than mass 443	7.2
442	40.0 - 99.0% of mass 198	41.0
443	17.0 - 23.0% of mass 442	7.9 (19.2)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	1SCAL020	1SCAL020	1SCAL020.D	7/29/95	1059
02	1SCAL050	1SCAL050	1SCAL050.D	7/29/95	1151
03	1SCAL080	1SCAL080	1SCAL080.D	7/29/95	1244
04	1SCAL120	1SCAL120	1SCAL120.D	7/29/95	1336
05	1SCAL160	1SCAL160	1SCAL160.D	7/29/95	1428
06	1SCAL200	1SCAL200	1SCAL200.D	7/29/95	1520
07	3SCAL020	3SCAL020	3SCAL020.D	7/29/95	1705
08	3SCAL050	3SCAL050	3SCAL050.D	7/29/95	1757
09	3SCAL080	3SCAL080	3SCAL080.D	7/29/95	1849
10	3SCAL120	3SCAL120	3SCAL120.D	7/29/95	1942
11	3SCAL200	3SCAL200	3SCAL200.D	7/29/95	2034
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: STUN07.D DFTPP Injection Date: 7/18/95

Instrument ID: MS5971.B DFTPP Injection Time: 1251

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	40.0
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.6
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	44.3
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.0
275	10.0 - 30.0% of mass 198	18.4
365	Greater than1.0% of mass 198	1.9
441	Present, but less than mass 443	8.1
442	40.0 - 99.0% of mass 198	51.5
443	17.0 - 23.0% of mass 442	10.0 (19.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	1SSTD07	1SSTD07.D	7/18/95	1311
02	SSTD050	3SSTD07	3SSTD07.D	7/18/95	1404
03	SSTD050	7SSTD07	7SSTD07.D	7/18/95	1456
04	SSTD050	8SSTD07	8SSTD07.D	7/18/95	1548
05	SSTD050	9SSTD07	9SSTD07.D	7/18/95	1641
06	SBLK07	SPBLK07	SPBLK07.D	7/18/95	1733
07	TRIP BLANK	180859S	180859.D	7/18/95	1825
08	MW-01	180851S	180851.D	7/18/95	1918
09	MW-03	180852S	180852.D	7/18/95	2153
10	MW-06	180853S	180853.D	7/18/95	2245
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TB-1 MW-1 MW-3 MW-6

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: STUN08.D DFTPP Injection Date: 7/19/95

Instrument ID: MS5971.B DFTPP Injection Time: 0856

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	39.4
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	49.2
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	43.2
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.5
275	10.0 - 30.0% of mass 198	19.0
365	Greater than1.0% of mass 198	1.5
441	Present, but less than mass 443	0.4
442	40.0 - 99.0% of mass 198	57.8
443	17.0 - 23.0% of mass 442	11.0 (18.9)2

1-Value is % mass 69 2-Value is % mass 442

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

start here →

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	1SSTD08	1SSTD08.D	7/19/95	0917
02	SSTD050	3SSTD08	3SSTD08.D	7/19/95	1009
03	SSTD050	7SSTD08	7SSTD08.D	7/19/95	1101
04	SSTD050	8SSTD08	8SSTD08.D	7/19/95	1153
05	SSTD050	9SSTD08	9SSTD08.D	7/19/95	1246
06	SBLK08	SPBLK08	SPBLK08.D	7/19/95	1338
07	TRIP BLANK 2	180884S	180884.D	7/19/95	1430
08	MW-01MS	180851MS	180851MS.D	7/19/95	1523
09	MW-01MSD	180851SD	180851SD.D	7/19/95	1615
10	MW-07	180854S	180854.D	7/19/95	1707
11	MW-08	180855S	180855.D	7/19/95	1759
12	MW-10	180856S	180856.D	7/19/95	1851
13	MW-11	180857S	180857.D	7/19/95	1943
14	MW-17	180858S	180858.D	7/19/95	2036
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Trip Blank -2

MW-1 MS

MW-1 MSD

MW-7

MW-8

MW-10

MW-11

MW-17

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Lab File ID: STUN09.D DFTPP Injection Date: 7/19/95

Instrument ID: MS5971.B DFTPP Injection Time: 2139

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	38.2
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	48.3
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	42.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.9
275	10.0 - 30.0% of mass 198	18.8
365	Greater than1.0% of mass 198	2.2
441	Present, but less than mass 443	9.0
442	40.0 - 99.0% of mass 198	55.2
443	17.0 - 23.0% of mass 442	10.8 (19.6)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	1SSTD09	1SSTD09.D	7/19/95	2200
02	SSTD050	3SSTD09	3SSTD09.D	7/19/95	2253 ~~1053~~
03	SSTD050	7SSTD09	7SSTD09.D	7/19/95	2345 ~~1145~~
04	SSTD050	8SSTD09	8SSTD09.D	7/20/95	0038
05	SSTD050	9SSTD09	9SSTD09.D	7/20/95	0131
06	MW-02	180880S	180880.D	7/20/95	0223
07	MW-04	180881S	180881.D	7/20/95	0316
08	MW-09	180882S	180882.D	7/20/95	0408
09	MW-09MS	180882MS	180882MS.D	7/20/95	0501
10	MW-09MSD	180882SD	180882SD.D	7/20/95	0553
11	MW-12	180883S	180883.D	7/20/95	0646
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name : ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID: STUN14.D DFTPP Injection Date: 7/31/95

Instrument ID: MS5971.B DFTPP Injection Time: 1028

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	50.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	54.5
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.5
197	Less than 1.0% of mass 198	0.0
198	Base Peak, 100 % relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.6
275	10.0 - 30.0% of mass 198	16.7
365	Greater than1.0% of mass 198	1.6
441	Present, but less than mass 443	5.6
442	40.0 - 99.0% of mass 198	40.3
443	17.0 - 23.0% of mass 442	7.4 (18.3)2

1-Value is % mass 69 2-Value is % mass 442

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	1SSTD14	1SSTD14.D	7/31/95	1049
02	SBLK14	SPBLK14	SPBLK14.D	7/31/95	1510
03	MW-17RE	180858R	180858RE.D	7/31/95	1655
04	MW-02RE	180880R	180880RE.D	7/31/95	1747
05	MW-04RE	180881R	180881RE.D	7/31/95	1839
06	MW-09RE	180882R	180882RE.D	7/31/95	1931
07	MW-12R	180883R	180883R.D	7/31/95	2208
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD07.D Date Analyzed: 7/18/95

Instrument ID: MS5971.B Time Analyzed: 1311

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	385415	11.08	1325760	13.84	736027	17.75
	UPPER LIMIT	770830	11.58	2651520	14.34	1472054	18.25
	LOWER LIMIT	192708	10.58	662880	13.34	368014	17.25
	SAMPLE NO.						
01	SBLK07	527597	11.07	1833596	13.83	1016714	17.75
02	TRIP BLANK	423512	11.07	1453292	13.83	797803	17.75
03	MW-01	554927	11.07	1923040	13.83	1059479	17.75
04	MW-03	448796	11.07	1519448	13.83	840580	17.74
05	MW-06	405387	11.07	1380535	13.82	764993	17.74
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD07.D Date Analyzed: 7/18/95

Instrument ID: MS5971.B Time Analyzed: 1311

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1019411	21.09	648020	27.07	407313	31.62
	UPPER LIMIT	2038822	21.59	1296040	27.57	814626	32.12
	LOWER LIMIT	509706	20.59	324010	26.57	203657	31.12
	SAMPLE NO.						
01	SBLK07	1393587	21.09	989779	27.06	647072	31.62
02	TRIP BLANK	1075885	21.08	707468	27.05	459673	31.61
03	MW-01	1419495	21.09	974339	27.05	640544	31.62
04	MW-03	1126380	21.08	767841	27.05	471866	31.60
05	MW-06	1024956	21.08	746950	27.05	502824	31.60
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD08.D Date Analyzed: 7/19/95

Instrument ID: MS5971.B Time Analyzed: 0917

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	180312	11.07	616173	13.83	335428	17.74
	UPPER LIMIT	360624	11.57	1232346	14.33	670856	18.24
	LOWER LIMIT	90156	10.57	308087	13.33	167714	17.24
	SAMPLE NO.						
01	SBLK08	171989	11.06	605869	13.82	330216	17.73
02	TRIP BLANK 2	163032	11.06	565845	13.81	314052	17.73
03	MW-01MS	235681	11.07	802290	13.82	459551	17.74
04	MW-01MSD	208626	11.07	710506	13.82	405596	17.74
05	MW-07	183912	11.07	615932	13.82	333739	17.74
06	MW-08	179120	11.07	614186	13.82	340655	17.74
07	MW-10	188162	11.07	651348	13.82	358912	17.73
08	MW-11	170175	11.06	589724	13.82	324075	17.73
09	MW-17	194642	11.06	664318	13.82	368831	17.73
10							
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD08.D Date Analyzed: 7/19/95

Instrument ID: MS5971.B Time Analyzed: 0917

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	471398	21.08	298377	27.05	189470	31.59
	UPPER LIMIT	942796	21.58	596754	27.55	378940	32.09
	LOWER LIMIT	235699	20.58	149189	26.55	94735	31.09
	SAMPLE NO.						
01	SBLK08	455113	21.07	284775	27.04	184081	31.59
02	TRIP BLANK 2	432466	21.07	269253	27.03	157159	31.58
03	MW-01MS	626728	21.08	448882	27.05	291777	31.60
04	MW-01MSD	537697	21.08	364996	27.04	219779	31.59
05	MW-07	428362	21.08	224754	27.03	123054	31.57
06	MW-08	465862	21.07	316759	27.04	195559	31.59
07	MW-10	492438	21.07	316208	27.03	219168	31.59
08	MW-11	435302	21.07	297126	27.04	174104	31.59
09	MW-17	508464	21.07	338045	27.04	211796	31.58
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD09.D Date Analyzed: 7/19/95

Instrument ID: MS5971.B Time Analyzed: 2200

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	188320	11.07	651840	13.83	355569	17.74
	UPPER LIMIT	376640	11.57	1303680	14.33	711138	18.24
	LOWER LIMIT	94160	10.57	325920	13.33	177785	17.24
	SAMPLE NO.						
01	MW-02	188386	11.06	644363	13.81	363321	17.73
02	MW-04	187835	11.06	636093	13.81	351451	17.73
03	MW-09	175292	11.06	593217	13.81	326368	17.73
04	MW-09MS	175468	11.06	596771	13.82	343757	17.73
05	MW-09MSD	165190	11.06	559855	13.82	320825	17.73
06	MW-12	180204	11.06	623617	13.81	337677	17.73
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD09.D Date Analyzed: 7/19/95

Instrument ID: MS5971.B Time Analyzed: 2200

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	499504	21.08	303138	27.05	172764	31.58
	UPPER LIMIT	999008	21.58	606276	27.55	345528	32.08
	LOWER LIMIT	249752	20.58	151569	26.55	86382	31.08
	SAMPLE NO.						
01	MW-02	500114	21.07	304627	27.03	194962	31.58
02	MW-04	481458	21.07	294955	27.03	173558	31.58
03	MW-09	437787	21.07	262785	27.03	156809	31.57
04	MW-09MS	449368	21.08	276966	27.04	153721	31.58
05	MW-09MSD	432965	21.07	279742	27.04	171746	31.58
06	MW-12	462462	21.07	282655	27.03	164680	31.56
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22							

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract: _____

Project No.: 6520-21 Site: WATAUGA Location: _____ Group: 180851S

Lab File ID (Standard): 1SSTD14.D Date Analyzed: 7/31/95

Instrument ID: MS5971.B Time Analyzed: 1049

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	143421	10.50	485175	13.22	253969	17.11
	UPPER LIMIT	286842	11.00	970350	13.72	507938	17.61
	LOWER LIMIT	71711	10.00	242588	12.72	126985	16.61
	SAMPLE NO.						
01	SBLK14	169399	10.50	549974	13.23	260061	17.10
02	MW-17RE	155350	10.50	501499	13.23	229050	17.10
03	MW-02RE	153324	10.50	499139	13.22	234275	17.10
04	MW-04RE	170144	10.50	540313	13.23	253588	17.10
05	MW-09RE	129020	10.49	429228	13.22	210063	17.10
06	MW-12R	149240	10.49	489955	13.22	228848	17.10
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22							

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Lab File ID (Standard): 1SSTD14.D Date Analyzed: 7/31/95

Instrument ID: MS5971.B Time Analyzed: 1049

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	226749	20.41	81324	26.27	62266	30.29
	UPPER LIMIT	453498	20.91	162648	26.77	124532	30.79
	LOWER LIMIT	113375	19.91	40662	25.77	31133	29.79
	SAMPLE NO.						
01	SBLK14	174189	20.40	56848	26.27	45307	30.28
02	MW-17RE	152241	20.40	44785	26.26	35649	30.28
03	MW-02RE	164289	20.40	54197	26.27	43411	30.28
04	MW-04RE	176743	20.40	66941	26.27	53804	30.28
05	MW-09RE	152745	20.40	52925	26.27	40692	30.27
06	MW-12R	163173	20.40	56994	26.27	45637	30.27
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk.
* Values outside of QC limits.

Sample Data

- Target Compound Results (Form I)
- Raw Data
  - * Chromatogram
  - * Quantitation Report
  - * Target Compound Spectra

Watauga County Landfill
Watauga County, North Carolina
1st Semi-Annual Assessment Monitoring
SDG #180851

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-01

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

VOID

Matrix: (soil/water) WATER Lab Sample ID: 180851S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180851.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

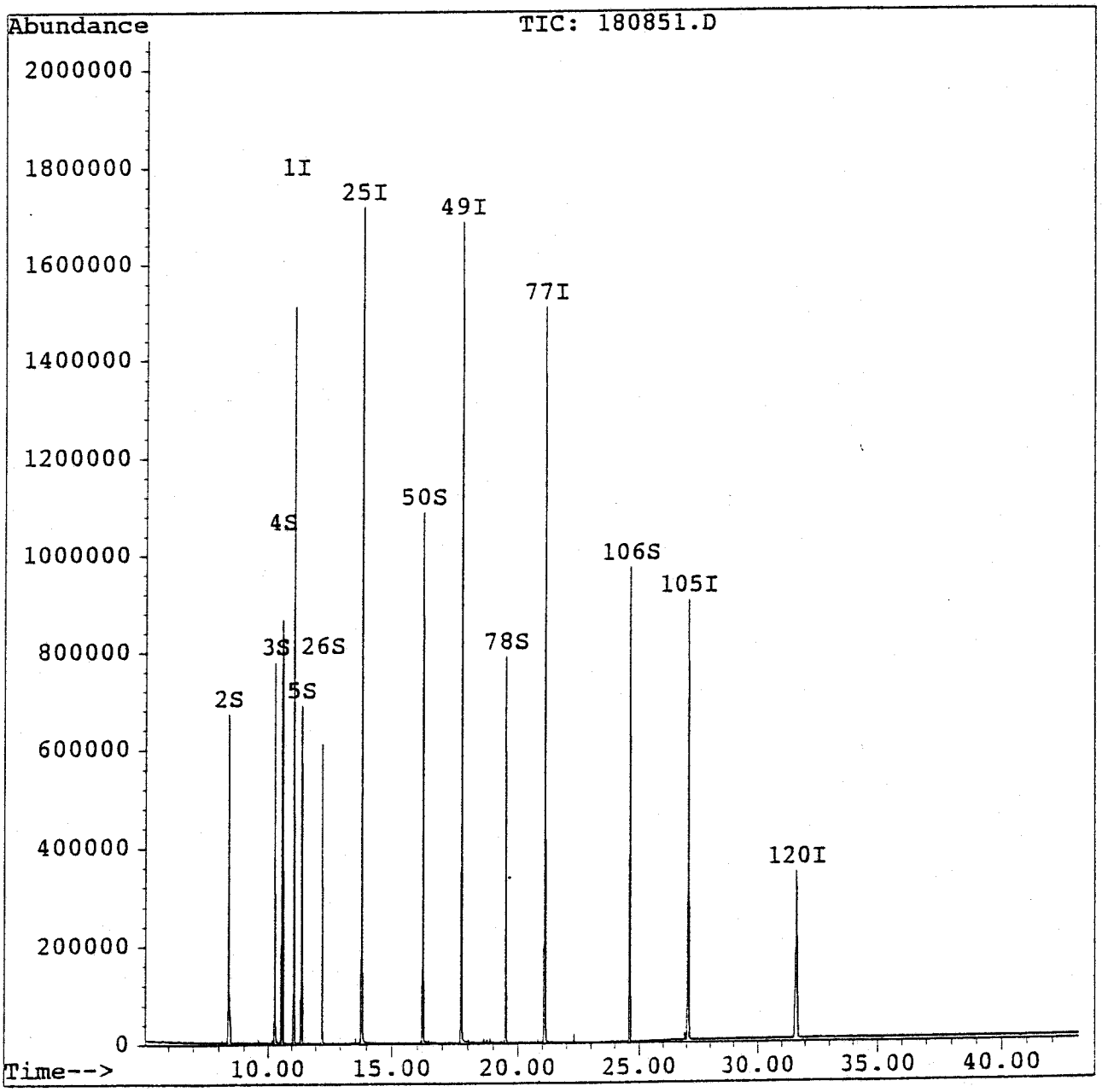
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180851.D
Acq Time : 18 Jul 95 7:18 pm
Sample : MW-01 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 21:11 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration



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Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180851.D
Acq Time : 18 Jul 95 7:18 pm
Sample : MW-01 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 21:11 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : c:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	554927	50.00	ug/ml	0.00
25) Naphthalene-d8	13.83	136	1923040	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.75	164	1059479	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.09	188	1419495	50.00	ug/ml	0.00
105) Chrysene-d12	27.05	240	974339	50.00	ug/ml	-0.01
120) Perylene-d12	31.62	264	640544	50.00	ug/ml	0.00
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.39	112	465646	40.83	ug/ml	54.44%
3) Phenol-d5	10.28	99	568317	43.77	ug/ml	58.36%
4) 2-Chlorophenol-d4	10.59	132	570666	44.45	ug/ml	59.27%
5) 1,2-Dichlorobenzene-d4	11.40	152	236686	25.09	ug/ml	50.18%
26) Nitrobenzene-d5	12.25	82	342577	27.83	ug/ml	55.67%
50) 2-Fluorobiphenyl	16.21	172	736214	29.71	ug/ml	59.42%
78) 2,4,6-Tribromophenol	19.51	330	196848	51.88	ug/ml	69.17%
106) Terphenyl-d14	24.60	244	717333	28.42	ug/ml	56.83%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-03

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

MW-03

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

VOID

Matrix: (soil/water) WATER Lab Sample ID: 180852S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180852.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

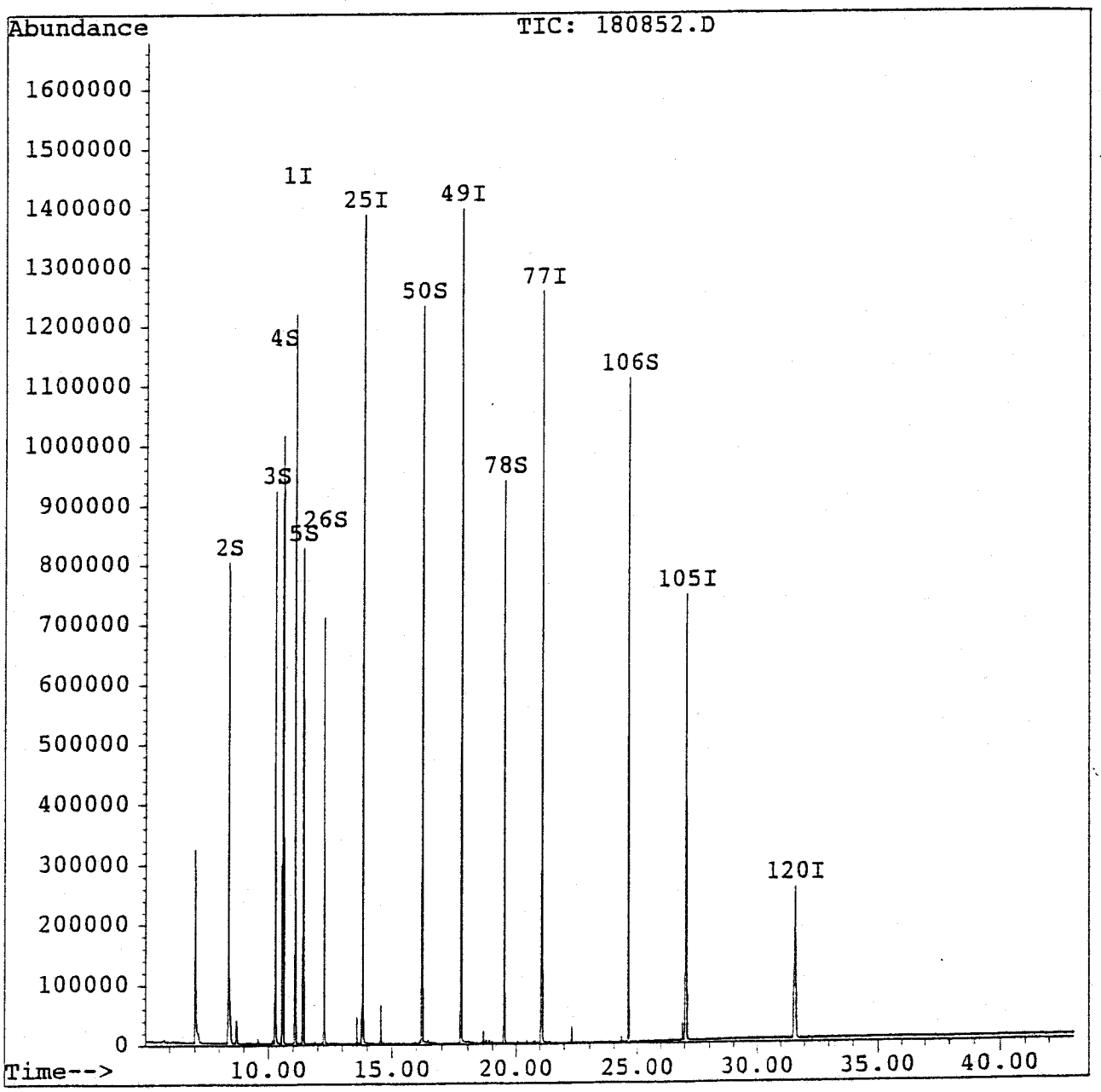
CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	10	U
193-39-5	Indeno[1,2,3-cd]pyrene	10	U
53-70-3	Dibenz[a,h]anthracene	10	U
191-24-2	Benzo[g,h,i]perylene	10	U

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180852.D
Acq Time : 18 Jul 95 9:53 pm
Sample : MW-03 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 22:37 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration



97

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180852.D
Acq Time : 18 Jul 95 9:53 pm
Sample : MW-03 [8270]
Misc : WATAUGA COUNTY
Quant Time: Jul 18 22:37 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Tue Jul 18 20:58:10 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	448796	50.00	ug/ml	0.00
25) Naphthalene-d8	13.83	136	1519448	50.00	ug/ml	0.00
49) Acenaphthene-d10	17.74	164	840580	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	1126380	50.00	ug/ml	0.00
105) Chrysene-d12	27.05	240	767841	50.00	ug/ml	-0.02
120) Perylene-d12	31.60	264	471866	50.00	ug/ml	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	541140	58.67	ug/ml	78.22%
3) Phenol-d5	10.28	99	655670	62.44	ug/ml	83.25%
4) 2-Chlorophenol-d4	10.59	132	661906	63.75	ug/ml	85.00%
5) 1,2-Dichlorobenzene-d4	11.40	152	275563	36.12	ug/ml	72.23%
26) Nitrobenzene-d5	12.25	82	401056	41.24	ug/ml	82.48%
50) 2-Fluorobiphenyl	16.20	172	863910	43.94	ug/ml	87.88%
78) 2,4,6-Tribromophenol	19.50	330	229573	76.25	ug/ml	101.66%
106) Terphenyl-d14	24.60	244	819346	41.19	ug/ml	82.38%
Target Compounds						Qvalue

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

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
2303-16-4	cis-Diallate	10	U
298-02-2	Phorate	20	U
62-44-2	Phenacetin	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
60-51-5	Dimethoate	10	U
92-67-1	4-Aminobiphenyl	10	U
82-68-8	Pentachloronitrobenzene	10	U
23950-58-5	Pronamide	10	U
298-04-4	Disulfoton	10	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
298-00-0	Methyl parathion	10	U
84-74-2	Di-n-butylphthalate	10	U
56-38-2	Parathion	10	U
206-44-0	Fluoranthene	10	U
91-80-5	Methapyrilene	10	U
465-73-6	Isodrin	10	U
129-00-0	Pyrene	10	U
60-11-7	Dimethylaminoazobenzene	10	U
510-15-6	Chlorobenzilate	10	U
52-85-7	Famphur	10	U
119-93-7	3,3'-Dimethylbenzidine	20	U
85-68-7	Butylbenzylphthalate	10	U
143-50-0	Kepone	10	U
53-96-3	2-Acetylaminofluorene	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	U
117-84-0	Di-n-octylphthalate	10	U
57-97-9	7,12-Dimethylbenz(a)anthracene	10	U
205-99-2	Benzo[b]fluoranthene	10	U
207-08-9	Benzo[k]fluoranthene	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-06

VOID

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180853S

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: 180853.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/18/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
56-49-5	3-Methylcholanthrene	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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180853.D
Acq Time : 18 Jul 95 10:45 pm
Sample : MW-06 [8270]
Misc : WATAUGA COUNTY
Quant Time: Aug 9 14:50 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Aug 09 14:44:44 1995
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	11.07	152	405387	50.00	ug/ml	0.00
25) Naphthalene-d8	13.82	136	1380535	50.00	ug/ml	-0.01
49) Acenaphthene-d10	17.74	164	764993	50.00	ug/ml	0.00
77) Phenanthrene-d10	21.08	188	1024956	50.00	ug/ml	0.00
105) Chrysene-d12	27.05	240	746950	50.00	ug/ml	-0.02
120) Perylene-d12	31.60	264	502824	50.00	ug/ml	-0.02
System Monitoring Compounds						%Recovery
2) 2-Fluorophenol	8.38	112	355337	42.65	ug/ml	56.86%
3) Phenol-d5	10.28	99	482630	50.88	ug/ml	67.84%
4) 2-Chlorophenol-d4	10.60	132	506154	53.97	ug/ml	71.96%
5) 1,2-Dichlorobenzene-d4	11.40	152	241333	35.02	ug/ml	70.04%
26) Nitrobenzene-d5	12.24	82	361840	40.95	ug/ml	81.91%
50) 2-Fluorobiphenyl	16.21	172	758055	42.37	ug/ml	84.73%
78) 2,4,6-Tribromophenol	19.50	330	172751	63.05	ug/ml	84.07%
106) Terphenyl-d14	24.59	244	490440	25.34	ug/ml	50.69%
Target Compounds						Qvalue

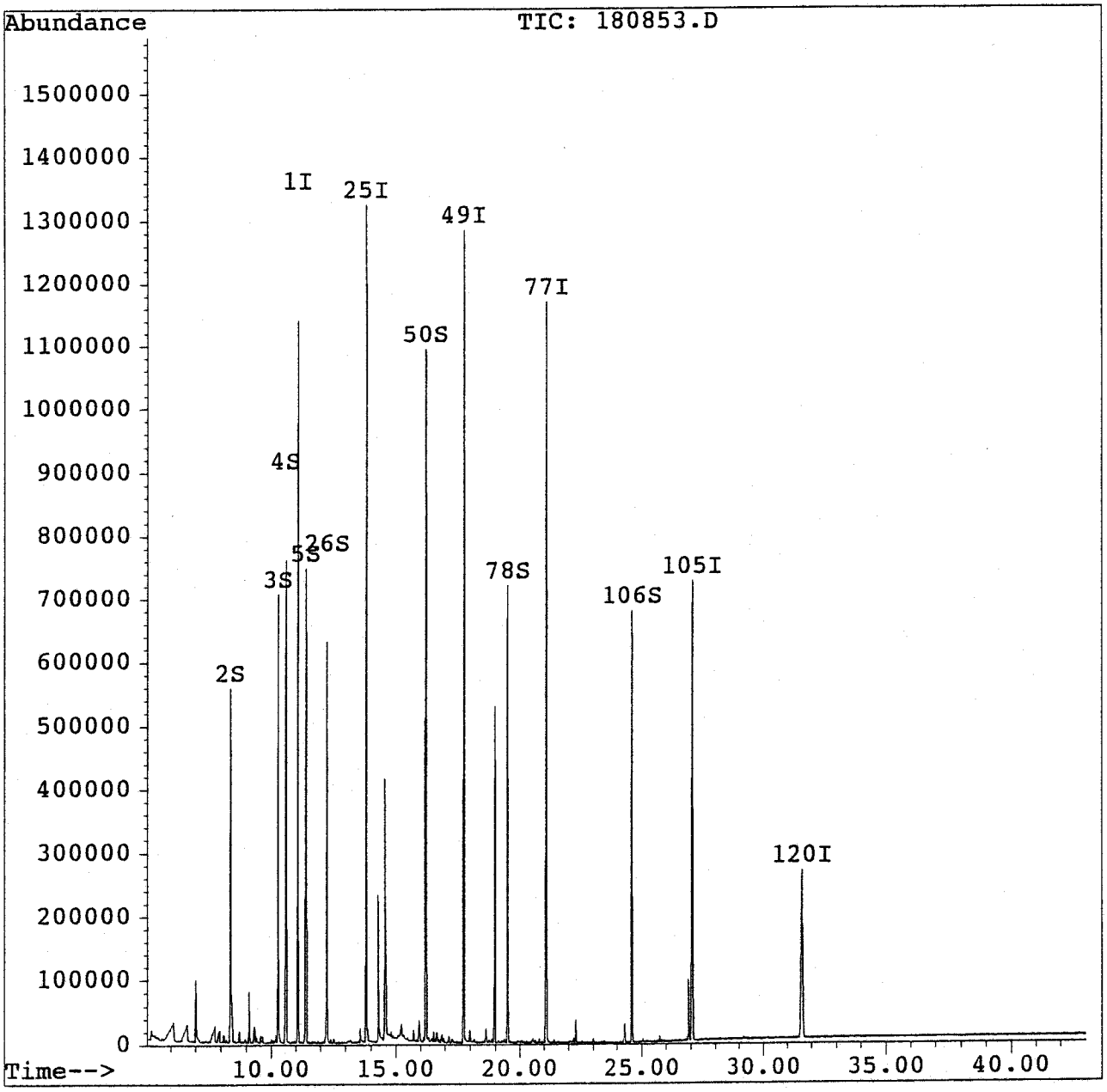
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\071895S\180853.D
Acq Time : 18 Jul 95 10:45 pm
Sample : MW-06 [8270]
Misc : WATAUGA COUNTY
Quant Time: Aug 9 14:50 1995

Operator: MRC
Inst : MS_5971.B
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\MASTER.M
Title : BNA Calibration
Last Update : Wed Aug 09 14:44:44 1995
Response via : Single Level Calibration



1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
62-75-9	N-Nitrosodimethylamine	10	U
10595-95-6	N-Nitrosomethylethylamine	10	U
66-27-3	Methyl methanesolfonate	10	U
55-18-5	N-Nitrosodiethylamine	10	U
62-50-0	Ethyl methanesulfonate	10	U
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
100-51-6	Benzyl alcohol	10	U
95-48-7	2-Methylphenol	10	U
106-44-5	3 & 4-Methylphenol	10	U
108-60-1	bis(2-Chloroisopropyl)ether	10	U
930-55-2	N-Nitrosopyrrolidine	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-86-2	Acetophenone	10	U
95-53-4	0-Toluidine	10	U
98-95-3	Nitrobenzene	10	U
100-75-4	N-Nitrosopiperidine	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
126-68-1	O,O,O-Triethyl phosphorothioate	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
87-65-0	2,6-Dichlorophenol	10	U
106-47-8	4-Chloroaniline	10	U
1888-71-7	Hexachloropropene	10	U
924-16-3	N-Nitrosodibutylamine	10	U
106-50-3	1,4-Benzenediamine	100	U
59-50-7	4-Chloro-3-methylphenol	10	U
102-58-1	Isosafrole	10	U
94-59-7	Safrole	10	U

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-07

Lab Name: ETSAS Contract:

Project No.: 6520-21 Site: WATAUGA Location: Group: 180851S

Matrix: (soil/water) WATER Lab Sample ID: 180854S

Sample wt/vol: 200.0 (g/mL) ML Lab File ID: 180854.D

Level: (low/med) Date Received: 7/13/95

% Moisture: decanted: (Y/N): Date Extracted: 7/14/95

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 7/19/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS No.	Compound	Concentration Units: (ug/L or ug/Kg) ug/L	Q
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	20	U
95-94-3	1,2,4,5-Tetrachlorobenzene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	10	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	10	U
99-09-2	3-Nitroaniline	10	U
100-01-6	4-Nitroaniline	10	U
130-15-4	1,4-Naphthoquinone	10	U
99-65-0	1,3-Dinitrobenzene	10	U
208-96-8	Acenaphthylene	10	U
131-11-3	Dimethylphthalate	10	U
606-20-2	2,6-Dinitrotoluene	10	U
121-14-2	2,4-Dinitrotoluene	10	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	10	U
132-64-9	Dibenzofuran	10	U
100-02-7	4-Nitrophenol	10	U
608-93-5	Pentachlorobenzene	10	U
134-32-7	1-Naphthylamine	10	U
91-59-8	2-Naphthylamine	10	U
297-97-2	Thionazin	10	U
99-58-8	5-Nitroso-o-toluidine	10	U
86-73-7	Fluorene	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
84-66-2	Diethylphthalate	10	U
935-95-5	2,3,4,6-Tetrachlorophenol	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-3-6	N-Nitrososdiphenylamine	10	U
122-39-4	Diphenylamine	10	U
99-35-4	1,3,5-Trinitrobenzene	10	U
2303-16-4	trans-Diallate	10	U