

EPA Region 5 Records Ctr.



224257

# First Quarter Results for Lemon Lane Monitoring Wells December 1995 Samples Lemon Lane Landfill Bloomington, Indiana

*Prepared for:*  
U.S. Environmental Protection Agency  
Region 5  
Chicago, Illinois

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U.S. EPA Contract No. 68-W8-0079  
U.S. EPA Work Assignment No. 23-5BZZ

March 1996



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T E C H N I C A L M E M O R A N D U M

Date: March 6, 1996  
To: Dan Hopkins  
U.S. EPA, Region 5  
From: Robert Aten  
Earth Tech  
Subject: First Quarter Results for Lemon Lane Landfill Monitoring Wells

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The monitoring wells at Lemon Lane Landfill were sampled by Westinghouse on December 17 through December 19, 1995. Earth Tech conducted oversight of sampling efforts and collected split samples for analyses of total and dissolved inorganics, volatile organics, semivolatile organics, and pesticides/PCBs. The monitoring wells for which split samples were obtained are MW-1, MW-2, MW-4I, MW-4D, MW-6, MW-7, and MW-8D. Monitoring wells MW-1 and MW-2 did not produce enough water for all of the analyses planned. Only the volatile organic compounds were run for these two wells.

The analytical results are summarized on the following tables.

Table 1	Inorganics (total)
Table 2	Inorganics (dissolved)
Table 3	Volatile Organic Compounds
Table 4	Semivolatile Organic Compounds
Table 5	Pesticides/PCBs



The complete data packages from the analytical laboratories are included in the Attachment. The tentatively identified compounds for the volatile and semivolatile organic analyses are included in the laboratory data packages.

**Table 1**  
**Lemon Lane Landfill**  
**Monitoring Well Water Samples**  
**December 1995**  
**Total Inorganics (ug/L)**

Monitoring Well Sample Date Time EPA Sample #	MW-4I 12/18/95 1210 MEACH8	MW-4D 12/18/95 1106 MEACJ0	MW-6 12/18/95 1605 MEACJ2	MW-6 Duplicate 12/18/95 1605 MEACJ4	MW-7 12/18/95 1450 MEACJ6	MW-8D 12/19/95 0930 MEACJ8
Parameter						
Aluminum	210	218	21.3	13.3	164	8.0 U
Antimony	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Arsenic	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Barium	89.7	70.1	83.0	80.2	26.5	7.8
Beryllium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cadmium	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	118000	125000	91300	87800	22900	385000
Chromium	1.1	1.0 U	1.2	1.0 U	1.0 U	1.2
Cobalt	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.8
Copper	2.5 J	1.8 J	1.7 J	1.0 U	1.3 J	1.5 J
Iron	356	316	67.3	47.4	217	83.0
Lead	2.0 U	2.0 U	2.0 U	2.4	2.0 U	2.0 U
Magnesium	31700	109000	17500	16900	6410	236000
Manganese	12.6	504	2.6	2.2	11.1	24.5
Mercury	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Nickel	2.6	1.1	1.0 U	1.0 U	1.0 U	9.9
Potassium	2160	10000	965	810	887	5050
Selenium	5.1	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Silver	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Sodium	7150 J	15000 J	2960 J	2840 J	669 J	16300 J
Thallium	4.0 J	4.3 J	4.8 J	3.3 J	3.0 U	5.4 J
Radium	1.0 U	2.9	1.0 U	1.0 U	1.0 U	1.0 U
Zinc	6.4 J	6.4 J	4.0 J	3.7 J	3.1 J	45.1
Cyanide	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

U = Indicates analyte not detected at the listed detection limit.

J = Indicates an estimated value.

**Table 2**  
**Lemon Lane Landfill**  
**Monitoring Well Water Samples**  
**December 1995**  
**Dissolved Inorganics (ug/L)**

Monitoring Well Sample Date Time EPA Sample #	MW-4I 12/18/95 1210 MEACH7	MW-4D 12/19/95 0910 MEACH9	MW-6 12/18/95 1605 MEACJ1	MW-6 Duplicate 12/18/95 1605 MEACJ3	MW-7 12/18/95 1450 MEACJ5	MW-8D 12/19/95 1930 MEACJ7
Parameter						
Aluminum	14.5 U	14.5 U	14.5 U	14.5 U	53.0	14.5 U
Antimony	26.6 U	26.6 U	26.6 U	26.6 U	26.6 U	26.6 U
Arsenic	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U	2.7 U
Barium	79.6	63.6	76.6	74.8	23.9	9.9
Beryllium	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Cadmium	3.0 UJ	3.0 UJ	3.0 UJ	3.0 UJ	3.0 UJ	3.0 UJ
Calcium	114000	124000	88200	85800	21300	408000
Chromium	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cobalt	3.4 U	3.4 U	3.4 U	3.4 U	3.4 U	6.8 J
Copper	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U	4.6 U
Iron	5.7 J	4.8 U	7.6 J	4.8 U	36.2 J	794
Lead	1.1 U	1.1 UJ	1.1 U	2.5	1.1 U	1.1 UJ
Magnesium	29500	104000	16500	16200	5740	230000
Manganese	0.70 U	256	0.70 U	0.70 U	3.0 J	117
Mercury	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Nickel	17.7 U	17.7 U	17.7 U	17.7 U	17.7 U	17.7 U
Potassium	862	9040	796 U	796 U	796 U	3550
Selenium	2.5	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ
Silver	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Sodium	6610	14700	2550	2490	606	16500
Thallium	1.5 UJ	1.5 U	1.5 UJ	1.5 UJ	1.5 UJ	1.5 U
Titanium	2.3 U	9.0	2.3 U	2.3 U	2.3 U	2.5
Zinc	22.5	25.1	19.3 J	16.8 J	19.5 J	64.6

U = Indicates analyte not detected at the listed detection limit.

J = Indicates an estimated value.









Table 4 cont.  
Lemon Lane Landfill  
Monitoring Well Water Samples  
December 1995  
Semivolatile Organic Compounds (ug/L)

Monitoring Well	Sample Date	Time	EPA Sample #	MW-4I			MW-4D			MW-6			MW-7			MW-8D					
				12/18/95	1210	EANW1	12/18/95	1100	EANW2	12/18/95	1605	EANW3	Duplicate	12/18/95	1605	EANW4	12/18/95	1450	EANW5	12/18/95	1005
2,4-Dinitrotoluene				10 U			10 U			10 U			10 U			10 U			10 U		
Diethylphthalate				10 U			10 U			10 U			10 U			10 U			10 U		
4-Chlorophenyl-phenylether				10 U			10 U			10 U			10 U			10 U			10 U		
Fluorene				10 U			10 U			10 U			10 U			10 U			10 U		
4-Nitroaniline				25 U			25 U			25 U			25 U			25 U			25 U		
4,6-Dinitro-2-methylphenol				25 U			25 U			25 U			25 U			25 U			25 U		
N-nitrosodiphenylamine (1)				10 U			10 U			10 U			10 U			10 U			10 U		
4-Bromophenyl-phenylether				10 U			10 U			10 U			10 U			10 U			10		
Hexachlorobenzene				10 U			10 U			10 U			10 U			10 U			10 U		
Pentachlorophenol				25 U			25 U			25 U			25 U			25 U			25 U		
Phenanthrene				10 U			10 U			10 U			10 U			10 U			10 U		
Anthracene				10 U			10 U			10 U			10 U			10 U			10 U		
Carbazole				10 U			10 U			10 U			10 U			10 U			10 U		
Di-n-butylphthalate				10 U			10 U			10 U			10 U			10 U			10 U		
Fluoranthene				10 U			10 U			10 U			10 U			10 U			10 U		
Pyrene				10 U			10 U			10 U			10 U			10 U			10 U		
Butylbenzylphthalate				10 U			10 U			10 U			10 U			10 U			10 U		
3,3'-Dichlorobenzidine				10 U			10 U			10 U			10 U			10 U			10 U		
Benzo (a) anthracene				10 U			10 U			10 U			10 U			10 U			10 U		
Chrysene				10 U			10 U			10 U			10 U			10 U			10 U		
bis (2-Ethylhexyl) phthalate				10 U			10 U			10 U			10 U			26			30		
Di-n-octylphthalate				6 J			3 J			10			4 J			4 J			6 J		
Benzo (b) fluoranthene				10 U			10 U			10 U			10 U			10 U			10		
Benzo (k) fluoranthene				10 U			10 U			10 U			10 U			10 U			10 U		
Benzo (a) pyrene				10 U			10 U			10 U			10 U			10 U			10 U		
Indeno (1,2,3-cd) pyrene				10 U			10 U			10 U			10 U			10 U			10 U		
Dibenzo (a,h) anthracene				10 U			10 U			10 U			10 U			10 U			10 U		
Benzo (g,h,i) perylene				10 U			10 U			10 U			10 U			10 U			10 U		

U = Indicates analyte not detected at the listed detection limit.

J = Indicates an estimated value.

**Table 5**  
**Lemon Lane Landfill**  
**Monitoring Well Water Samples**  
**December 1995**  
**Pesticides/PCBs (ug/L)**

Monitoring Well	Sample Date	Time	EPA Sample #	MW-4I	MW-4D	MW-6	MW-6 Duplicate	MW-7	MW-8D
				12/18/95 1210 EANW1	12/18/95 1100 EANW2	12/18/95 1605 EANW3	12/18/95 1605 EANW4	12/18/95 1450 EANW5	12/18/95 1005 EANW6
Parameter									
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.0064 JP
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.0065 JP	0.10 U	0.10 U	0.10 U	0.0045 JP
				0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
				0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.0058 JP
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
				5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
				2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
				0.35 JP	1.0 U	0.32 JP	0.74 J	0.23 JP	1.0 U
				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
				1.0 U	1.0 U	1.0 U	18	1.0 U	1.0 U

U = Indicates analyte not detected at the listed detection limit.

J = Indicates an estimated value.

P = Indicates an Aroclor or pesticide target analyte when there is >25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.

135 (4) 24. Monitoring U & W  
Inorganics (Total)

Received 2/13/96

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 02-04-96

SUBJECT: Review of Region V CLP Data  
Received for Review on 1-22-96

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) L. Finkelberg  
Superfund Technical Support Section

TO: Data User: Parth Tech for S. Ostrodka

We have reviewed the data for the following case:

SITE NAME: Limon Lane LF

CASE NUMBER: 24331 SDG NUMBER: MEAC48

Number and Type of Samples: 6 water samples

Sample Numbers: MEAC48, MEAC50, MEAC52, MEAC54, MEAC56  
and MEAC58

Laboratory: AATS Hrs. for Review: 5.5

+0.5

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg

02-01-96

cc: Regional TPO  
Brian Freeman  
HSMC-5J

**NARRATIVE**

SITE : Lemon Lane Landfill  
LABORATORY: AATS

CASE: 24331  
SDG : MEACH8

The laboratory's portion of this case contains six low level water samples analyzed for total metals and total cyanide. The following narrative lists the out of control audits and their possible effects on the results.

**EVIDENTIAL AUDIT:**

The DC-2 forms, DC-1 form, sample tags, airbill, and chain of custody forms are originals. The original mercury raw data for pages 112-117 are with case 24323, SDG: MAHM47.

All forms are present and in the order indicated on the DC- form(s) [inventory sheet].

**WATER SAMPLES (MEACH8, MEACJ0, MEACJ2, MEACJ4, MEACJ6, and MEACJ8)**

**ICP ANALYSES:**

The duplicate audit of aluminum (26.9 RPD), chromium (200 RPD), iron (22.7 RPD), potassium (21.4 RPD), and thallium (200 RPD) were not flagged by the laboratory because the technical criterion for water samples (+/- CRDL) was not exceeded. Aluminum, chromium, iron, and potassium data are not qualified based on this audit and are acceptable. Thallium data are not qualified based on this audit and are qualified below.

The CCB was found to contain copper (1.4 ug/L). The preparation blank was found to contain thallium (3.943 ug/L) and zinc (2.35 ug/L). Copper data for samples MEACH8, MEACJ0, MEACJ2, MEACJ6, and MEACJ8, thallium data for samples MEACH8, MEACJ0, MEACJ2, MEACJ4, and MEACJ8, and zinc data for samples MEACH8, MEACJ0, MEACJ2, MEACJ4, and MEACJ6 are estimated (J) due to contamination.

The ICP serial dilution of sodium (15.1%) is out of control. All sodium data are estimated (J) due to interference.

**OTHER QUALIFIERS:**

All mercury and cyanide data are acceptable.

Samples MEACJ2/MEACJ4 are field duplicates which showed good correlation.

Reviewed by: M. Fletcher M. Fletcher  
Date: 1/23/96

## INORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

- U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J Indicates the associated value is an estimated quantity.
- R Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M Indicates duplicate injection precision is not met.
- N Indictaes the spike sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- \* Indicates the duplicate analysis is not within control limits.

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

CASE\SAS#: 24331  
 DATA SET: M PAC#8  
 LAB QC # \_\_\_\_\_  
 DATE: 1/22/96

SITE: Lemon Lane LDFC MATRIX: Water  
 LAB: PAATS CONC: LOW  
 REVIEWED BY: M. Feltner

WATER SAMPLE SPK: \_\_\_\_\_  
 WATER SAMPLE DUP: \_\_\_\_\_  
 SOIL SAMPLE SPK: \_\_\_\_\_  
 SOIL SAMPLE DUP: \_\_\_\_\_

FORM 1	FORM 2	FORM 3	FORM 4	FORM 5	FORM 6	FORM 7	FORM 8	FORM 9	FORM 10	FORM 11	FORM 12	FORM 13	FORM 14	FORM 15	FORM 16	FORM 17	FORM 18	FORM 19	FORM 20	FORM 21	FORM 22
ELEMENT	HOLD TIME	INITIAL CALIB	CONTIN CALIB	CALIB BLANK	PREP WATER BLANK	PREP SOIL BLANK	ICD SS	SOIL SPIKE SS	SOIL DUP SPD	LCS AQ	LCS SOIL	SERIAL DILUTION AQUEOUS	SERIAL DILUTION SOIL	AQ DUP SPD	AQ SPIKE SS	NAME	DUP SPD	NAME	DUP SPD	CFAA DUP	CFAA ANALYT SPIKE
ALUMINUM																					
ANTIMONY																					
ARSENIC																					
BARIUM																					
BERYLLIUM																					
CADMIUM																					
CALCIUM																					
CHROMIUM																					
COBALT																					
COPPER				1.4																	
IRON																					
LEAD																					
MAGNESIUM																					
MANGANESE																					
MERCURY																					
NICKEL																					
POTASSIUM																					
SELENIUM																					
SILVER																					
SODIUM													15.1								
THALLIUM					2.943																
TIN																					
VANADIUM																					
ZINC					2.351																
CYANIDE																					







































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ANALYSIS RUN LOG

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_

Contract: 68-D5-0141

Lab Code: AATS\_\_ Case No.: 24331\_\_

SAS No.: \_\_\_\_\_ SDG No.: MEACH8

Instrument ID Number: TJA61\_\_\_\_\_

Method: P\_

Start Date: 01/02/96

End Date: 01/02/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K I	S E	A G	A L	N T	T V	Z N	C N		
SO	1.00	1217																	X										
S	1.00	1222																	X										
ICV	1.00	1228																	X										
ICB	1.00	1233																	X										
CRI	1.00	1238																											
ICSA	1.00	1243																	X										
ICSAB	1.00	1248																	X										
CCV	1.00	1253																	X										
CCB	1.00	1258																	X										
BW	1.00	1303																	X										
LCSW	1.00	1309																											
LCSW	1.00	1314																	X										
MEACH8	1.00	1319																	X										
MEACJ0	1.00	1324																	X										
MEACJ2	1.00	1329																	X										
MEACJ4	1.00	1334																	X										
MEACJ6	1.00	1339																	X										
MEACJ6L	5.00	1344																	X										
ZZZZZZ	1.00	1349																											
CCV	1.00	1355																	X										
CCB	1.00	1400																	X										
MEACJ6D	1.00	1405																	X										
MEACJ6S	1.00	1410																											
MEACJ8	1.00	1415																	X										
ZZZZZZ	1.00	1420																											
CRI	1.00	1430																											
ICSA	1.00	1435																	X										
ICSAB	1.00	1440																	X										
CCV	1.00	1445																	X										
CCB	1.00	1450																	X										



U.S. EPA - CLP

041

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ANALYSIS RUN LOG

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_

Contract: 68-D5-0141

Lab Code: AATS\_\_ Case No.: 24331\_\_

SAS No.: \_\_\_\_\_ SDG No.: MEACH8

Instrument ID Number: PS200A\_\_\_\_\_

Method: AV

Start Date: 01/09/96

End Date: 01/09/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
S	1.00	1234															X										
S0.2	1.00	1237															X										
S0.5	1.00	1241															X										
S1	1.00	1244															X										
S5	1.00	1248															X										
S10	1.00	1251															X										
ICV	1.00	1255															X										
ICB	1.00	1258															X										
CRA	1.00	1302															X										
CV	1.00	1305															X										
CCB	1.00	1309															X										
ZZZZZZ	1.00	1311																									
ZZZZZZ	1.00	1314																									
ZZZZZZ	1.00	1316																									
ZZZZZZ	1.00	1319																									
ZZZZZZ	1.00	1322																									
Z ZZZ	1.00	1324																									
ZZZZZZ	1.00	1327																									
ZZZZZZ	1.00	1330																									
ZZZZZZ	1.00	1332																									
ZZZZZZ	1.00	1335																									
CCV	1.00	1338															X										
CCB	1.00	1340															X										
ZZZZZZ	1.00	1343																									
ZZZZZZ	1.00	1346																									
ZZZZZZ	1.00	1348																									
ZZZZZZ	1.00	1351																									
ZZZZZZ	1.00	1353																									
ZZZZZZ	1.00	1356																									
CCV	1.00	1359															X										
CCB	1.00	1401															X										
CCV	1.00	1415															X										









United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case N

211331

<b>1. Matrix</b> (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	<b>2. Preservative</b> (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved	<b>2. Region No.</b> 5	<b>Sampling Co.</b> EarthTech	<b>4. Date Shipped</b> 12/19/95	<b>Carrier</b> Federal Express	<b>6. Date Received -- Received by:</b> Received by: <i>J. Sullivan</i> 12-20-95		
		<b>Sampler (Name)</b> 1.4. E. Conway		<b>Airbill Number</b> 7359267926		<b>Laboratory Contract Number</b> 68-D5-0141	<b>Unit Price</b> \$86.50	
		<b>Sampler Signature</b> <i>[Signature]</i>		<b>5. Ship To</b> American Analytical & Technical Services 1700 West Albany Proctor, Arrow OK 74012		<b>7. Transfer to:</b> Received by:		<b>Date Received</b>
<b>3. Purpose</b> <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input checked="" type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLO		<b>ATTN: Sample Custodian</b>		<b>Contract Number</b>		<b>Price</b>		

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases		
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Fluoride	pH	Conduct.						Solids	Water-Miscible Lq.	Water-Immns. Lq.
MEACTJ4	2	L	G	3		X						5-153159	LS-MW-6-1	12/18/95/1605	EANW4	BSC			
↓	↓	↓	↓	2		X						5-153158	↓	↓	↓	↓			
MEACTJ2	2	L	G	3		X						5-153142	LS-MW-6-1	12/18/95/1605	EANW3	BSC			
↓	↓	↓	↓	2		X						5-153141	↓	↓	↓	↓			
MEACTJ6	2	L	G	2		X						5-153191	LS-MW-7-1	12/18/95/1450	EANW5	BSC			
↓	↓	↓	↓	2		X						5-153192	↓	↓	↓	↓			
↓	↓	↓	↓	2		X						5-153200	↓	↓	↓	↓			
↓	↓	↓	↓	3		X						5-153177	↓	↓	↓	↓			
↓	↓	↓	↓	3		X						5-153178	↓	↓	↓	↓			
↓	↓	↓	↓	3		X						5-153190	↓	↓	↓	↓			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 2	MEACTJ6 - 11/14/MSD		416755, 416756

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <i>Betty Conway</i>	Date / Time 12/19/95 1300	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>J. Sullivan</i>	Date / Time 12/19/95 1545	Remarks intact	Is custody seal intact? Y/N/none

DISTRIBUTION: Green - Region Copy      White - Lab Copy for Return to Region      - SMO Copy      ow - Lab Copy for Return to SMO      EPA Form MEACTJ6      SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS      SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-6 REV. 3/93

250087

1st Lt.

Received 2/13/96

Monitoring well

Inorganics

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN

Case No: 24331 Site Name Location: Leiman Lane + L.O.

Contractor or EPA Lab: AATS Data User: Earthtech

No. of Samples: 6 Date Sampled or Data Received: \_\_\_\_\_

Have Chain-of-Custody records been received? Yes  No

Have traffic reports or packing lists been received? Yes  No

If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes \_\_\_\_\_ No \_\_\_\_\_

If no, which traffic report or packing list numbers are missing \_\_\_\_\_

Are basic data forms in? Yes  No

No of samples claimed: 6 No. of samples received: 6

Received by: M. Jettner Date: 1-22-96

Received by LSSS: \_\_\_\_\_ Date: \_\_\_\_\_

Review started: 1/22/96 Reviewer Signature: M. Jettner

Total time spent on review: 5.5 Date review completed: 1/23/96

Copied by: Lynette Burnett<sup>+0500</sup> Date: 2-5-96

Mailed to user by: Lynette Burnett Date: 2-5-96

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, SSCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if
- Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if
- Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if
- SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

1450 L. H. Chemistry 4-110 Received 2/29/96  
Inorganics (Disposal)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Region V CLP Data  
Received for Review on

Feb 27, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

TO: Data User:

Earth-Teek

We have reviewed the data for the following case:

SITE NAME:

Lemon Lane (IN)

CASE NUMBER:

24331

SDG NUMBER:

MEACH 7

Number and Type of Samples:

6 (water)

Sample Numbers:

MEACH 7, 9 MEACT 5, 2 MEACT 3

Laboratory:

Chester Labnet

Hrs. for Review:

Following are our findings:

cc: Regional TPO  
Brian Freeman  
HSMC-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN  
Case No: 24331 Site Name Location: Lemon Lane  
Contractor or EPA Lab: Chester Data User: Earth Tech  
No. of Samples: 6 Date Sampled or Data Received: 1-25-96

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 6 No. of samples received: 6  
Received by: Lynette Burnett Date: 2-27-96  
Received by LSSB: \_\_\_\_\_ Date: \_\_\_\_\_

Review started: \_\_\_\_\_ Reviewer Signature: \_\_\_\_\_  
Total time spent on review: \_\_\_\_\_ Date review completed: \_\_\_\_\_  
Copied by: \_\_\_\_\_ Date: \_\_\_\_\_  
Mailed to user by: \_\_\_\_\_ Date: \_\_\_\_\_

**DATA USER:**  
Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCL  
Data received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

Received 2/10/96

DATE: 02-01-96

SUBJECT: Review of Region V CLP Data Received for Review on 1-25-96

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) Superfund Technical Support Section  
L. Finkelberg  
for S. Ostrodka

TO: Data User: CDM

We have reviewed the data for the following case:

SITE NAME: Continental Steel

CASE NUMBER: 24231(3) SDG NUMBER: MEACH7

Number and Type of Samples: 6 (water)

Sample Numbers: MEACH7, MEACH9, MEACT1, MEACT3, MEACT5,  
and MEACT7

Laboratory: Chester Labnet Hrs. for Review: 1.2  
+ 0.6 hr

Following are our findings:

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg

02-01-96

cc: Regional TPO  
Brian Freeman  
HSMC-5J

## NARRATIVE

SITE : Continental Steel  
 LABORATORY: Chester Labnet

CASE: 24231  
 SDG : MEACH7

The laboratory's portion of this case contains six low level water samples analyzed for filtered metals. The following narrative lists the out of control audits and their possible effects on the results.

## EVIDENTIAL AUDIT:

The DC-2 forms, DC-1 form, sample tags, all raw data, airbill, and chain of custody forms are originals. The IDL of lead in the raw data is not consistent with the IDL listed on all forms.

WATER SAMPLES (MEACH7, MEACJ1, MEACJ3, MEACJ5, MEACJ7, and MEACH9)

## ICP ANALYSES:

The matrix spike recovery of cadmium (65.2%) is out of control. All cadmium data are estimated (J) due to possible elevated detection L.F. limits. (4J)

The CCBs were found to contain cobalt (4.6 ug/L), iron (31.6 ug/L), manganese (1.2 ug/L), and zinc (4.4 ug/L). Cobalt data for samples MEACJ7, manganese data for sample MEACJ5, iron data for samples MEACH7, MEACJ1, and MEACHJ5, and zinc data for samples MEACJ1, MEACJ3, and MEACJ5 are estimated (J) due to contamination.

## GFAA ANALYSES:

Thallium data for samples MEACH7, MEACJ1, MEACJ3, and MEACJ5 were flagged "W" by the laboratory and are estimated (UJ) due to interference.

Selenium data for sample MEACH9 was flagged "W" and sample MEACJ7 was flagged "E" by the laboratory and are estimated (UJ) due to interference.

Lead data for samples MEACH9 and MEACJ7 were flagged "W" by the laboratory and are estimated (UJ) due to interference.

## OTHER QUALIFIERS:

All mercury data are acceptable.

Reviewed by: M. Fletcher M. Fletcher  
 Date: 1/26/96

OTHER QUALIFIERS:

Samples MEACJ1/MEACJ3 are field duplicates which showed good correlation.

Reviewed by: M. Fletcher M. Fletcher  
Date: 1/26/96

## INORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provided:

- U    Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
  - J    Indicates the associated value is an estimated quantity.
  - R    Indicates the data are unusable. (Note: The analyte may or may not be present.)
  - UJ   Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
  - E    Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
  - M    Indicates duplicate injection precision is not met.
  - N    Indicates the spike sample recovery is not within control limits.
  - S    Indicates the reported value was determined by the Method of Standard Addition (MSA).
  - W    Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
  - +    Indicates the correlation coefficient for the MSA is less than 0.995.
  - \*    Indicates the duplicate analysis is not within control limits.
- Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.





1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACH7

Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030902

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.5	U		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	79.6	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	J N	P
7440-70-2	Calcium	114000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	5.7	B	J	P
7439-92-1	Lead	1.1	U		F
7439-95-4	Magnesium	29500			P
7439-96-5	Manganese	0.70	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	862	B		P
7782-49-2	Selenium	2.5	B		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	6610			P
7440-28-0	Thallium	1.5	U	J W	F
7440-62-2	Vanadium	2.3	U		P
7440-66-6	Zinc	22.5			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000006



1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACH9

Lab Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030903

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.5	U		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	63.6	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	J N	P
7440-70-2	Calcium	124000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	4.8	U		P
7439-92-1	Lead	1.1	U	J W	F
7439-95-4	Magnesium	104000			P
7439-96-5	Manganese	256			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	9040			P
7782-49-2	Selenium	2.0	U	J W	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	14700			P
7440-28-0	Thallium	1.5	U		F
7440-62-2	Vanadium	9.0	B		P
7440-66-6	Zinc	25.1			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACJ1

Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030904

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.5	U		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	76.6	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	JN	P
7440-70-2	Calcium	88200			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	7.6	B	J	P
7439-92-1	Lead	1.1	U		F
7439-95-4	Magnesium	16500			P
7439-96-5	Manganese	0.70	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	796	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2550	B		P
7440-28-0	Thallium	1.5	U	JW	F
7440-62-2	Vanadium	2.3	U		P
7440-66-6	Zinc	19.3	B	J	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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000008

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACJ3

Lab Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030905

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.5	U		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	74.8	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	JN	P
7440-70-2	Calcium	85800			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	4.8	U		P
7439-92-1	Lead	2.5	B		F
7439-95-4	Magnesium	16200			P
7439-96-5	Manganese	0.70	U		P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	796	U		P
7440-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	2490	B		P
7440-28-0	Thallium	1.5	U	JW	F
7440-62-2	Vanadium	2.3	U		P
7440-66-6	Zinc	16.8	B	J	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACJ5

Name: CHESTER LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030906

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	53.0	B		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	23.9	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	JN	P
7440-70-2	Calcium	21300			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	3.4	U		P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	36.2	B	J	P
7439-92-1	Lead	1.1	U		F
7439-95-4	Magnesium	5740			P
7439-96-5	Manganese	3.0	B	J	P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	796	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	606	B		P
7440-28-0	Thallium	1.5	U	JW	F
7440-62-2	Vanadium	2.3	U		P
7440-66-6	Zinc	19.5	B	J	P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

000010

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEACJ7

Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Lab Sample ID: H5030909

Level (low/med): LOW Date Received: 12/20/95

Solids: 0.0

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.5	U		P
7440-36-0	Antimony	26.6	U		P
7440-38-2	Arsenic	2.7	U		F
7440-39-3	Barium	9.9	B		P
7440-41-7	Beryllium	0.30	U		P
7440-43-9	Cadmium	3.0	U	JN	P
7440-70-2	Calcium	408000			P
7440-47-3	Chromium	5.0	U		P
7440-48-4	Cobalt	6.8	B	J	P
7440-50-8	Copper	4.6	U		P
7439-89-6	Iron	794			P
7439-92-1	Lead	1.1	U	JW	F
7439-95-4	Magnesium	230000			P
7439-96-5	Manganese	117			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	17.7	U		P
7440-09-7	Potassium	3550	B		P
7782-49-2	Selenium	2.0	U	JE	F
7440-22-4	Silver	2.0	U		P
7440-23-5	Sodium	16500			P
7440-28-0	Thallium	1.5	U		F
7440-62-2	Vanadium	2.5	B		P
7440-66-6	Zinc	64.6			P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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000011



U.S. EPA - CLP

3  
BLANKS

Lab Name: CHESTER\_LABNET \_\_\_\_\_ Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Preparation Blank	C	M
			1	C	2	C	3	C			
Aluminum			14.5	U							P
Antimony			26.6	U							P
Arsenic			2.7	U							F
Barium			0.5	B							P
Beryllium			0.9	B							P
Cadmium			3.0	U							P
Calcium			17.3	B							P
Chromium			5.0	U							P
Cobalt			3.4	U							P
Copper			4.6	U							P
Iron			31.6	B							P
Lead			-1.5	B	-2.1	B	1.1	U			F
Magnesium			38.6	B							P
Manganese			0.8	B							P
Mercury											NR
Nickel			17.7	U							P
Potassium			-1940.6	B							P
Selenium			2.0	U							F
Silver			2.0	U							P
Sodium			21.5	U							P
Thallium			1.5	U							F
Vanadium			2.3	U							P
Zinc			4.3	B							P
Cyanide											NR

U.S. EPA - CLP

3  
BLANKS

Lab Name: CHESTER\_LABNET \_\_\_\_\_

Contract: 68-D5-0140

Lab Code: CHESTX

Case No.: 24231\_

SAS No.: \_\_\_\_\_

SDG No.: MEACH7

Preparation Blank Matrix (soil/water): \_\_\_\_\_

Preparation Blank Concentration Units (ug/L or mg/kg): \_\_\_\_\_

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum										NR	
Antimony										NR	
Arsenic										NR	
Barium										NR	
Beryllium										NR	
Cadmium										NR	
Calcium										NR	
Chromium										NR	
Cobalt										NR	
Copper										NR	
Iron										NR	
Lead			1.1	U	-1.4	B	1.1	U		F	
Cesium										NR	
Manganese										NR	
Mercury										NR	
Nickel										NR	
Potassium										NR	
Selenium										NR	
Silver										NR	
Sodium										NR	
Thallium										NR	
Vanadium										NR	
Zinc										NR	
Cyanide										NR	

000021



U.S. EPA - CLP

5A  
SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEACJ5S

Lab Name: CHESTER LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Level (low/med): LOW

Solids for Sample: 0.0

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2070.8100	52.9700 B	2000.00	100.9		P
Antimony	75-125	542.0600	26.6000 U	500.00	108.4		P
Arsenic	75-125	42.2500	2.7000 U	40.00	105.6		F
Barium	75-125	2142.3300	23.8800 B	2000.00	105.9		P
Beryllium	75-125	51.1600	0.3000 U	50.00	102.3		P
Cadmium	75-125	3.2600	3.0000 U	5.00	65.2	N	P
Calcium							NR
Chromium	75-125	210.8300	5.0000 U	200.00	105.4		P
Cobalt	75-125	516.9500	3.4000 U	500.00	103.4		P
Copper	75-125	249.1400	4.6000 U	250.00	99.7		P
Iron	75-125	1048.9700	36.2000 B	1000.00	101.3		P
Lead	75-125	18.5500	1.1000 U	20.00	92.8		F
Magnesium							NR
Manganese	75-125	521.6900	3.0100 B	500.00	103.7		P
Mercury	75-125	1.0300	0.1000 U	1.00	103.0		CV
Nickel	75-125	523.3500	17.7000 U	500.00	104.7		P
Potassium							NR
Selenium	75-125	11.1000	2.0000 U	10.00	111.0		F
Silver	75-125	51.2400	2.0000 U	50.00	102.1		P
Sodium							NR
Thallium	75-125	55.3000	1.5000 U	50.00	110.6		F
Vanadium	75-125	519.7200	2.3000 U	500.00	103.9		P
Zinc	75-125	545.5500	19.4600 B	500.00	105.2		P
Cyanide							NR

Comments:

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000025

U.S. EPA - CLP

5B  
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MEACJ5A

Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water) : WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium		10.41	3.00 U	10.0	104.1		P
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

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000026

MEACJ5D

Name: CHESTER\_LABNET Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231 SAS No.: SDG No.: MEACH7

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

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

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	M
Aluminum		52.9700 B	51.3200 B	3.2		P
Antimony		26.6000 U	26.6000 U			
Arsenic		2.7000 U	2.7000 U			F
Barium		23.8800 B	24.0700 B	0.8		P
Beryllium		0.3000 U	0.3000 U			P
Cadmium		3.0000 U	3.0000 U			P
Calcium	5000.0	21345.6600	21442.3400	0.5		P
Chromium		5.0000 U	5.0000 U			P
Cobalt		3.4000 U	3.4000 U			P
Copper		4.6000 U	4.6000 U			P
Iron		36.2000 B	37.4400 B	3.4		P
Lead		1.1000 U	1.1000 U			F
Magnesium	5000.0	5735.0600	5746.8600	0.2		P
Manganese		3.0100 B	2.6200 B	13.9		P
Mercury		0.1000 U	0.1000 U			CV
Nickel		17.7000 U	17.7000 U			P
Potassium		796.0000 U	796.0000 U			P
Selenium		2.0000 U	2.0000 U			F
Silver		2.0000 U	2.0000 U			
Sodium		606.3200 B	610.2100 B	0.6		F
Thallium		1.5000 U	1.5000 U			F
Vanadium		2.3000 U	2.3000 U			P
Zinc		19.4600 B	19.7100 B	1.3		P
Cyanide						NR

Instrument Detection Limits (Quarterly)

Name: CHESTER\_LABNET\_\_\_\_\_ Contract: 68-D5-0140  
 Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7  
 P ID Number: TXTJA61\_\_\_\_\_ Date: 01/15/96  
 Flame AA ID Number : \_\_\_\_\_  
 Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum	308.22		200	14.5	P
Antimony	206.83		60	26.6	P
Arsenic			10		NR
Barium	455.40		200	0.4	P
Beryllium	313.04		5	0.3	P
Cadmium	249.77		5	3.0	P
Calcium	317.93		5000	3.0	P
Chromium	267.72		10	5.0	P
Cobalt	228.62		50	3.4	P
Copper	324.75		25	4.6	P
Iron	259.94		100	4.8	P
Lead			3		NR
Magnesium	279.08		5000	27.2	P
Manganese	257.61		15	0.7	P
Mercury			0.2		NR
Nickel	231.60		40	17.7	P
Potassium	766.49		5000	796.0	P
Selenium			5		NR
Silver	328.07		10	2.0	P
Sodium	589.00		5000	21.5	P
Thallium			10		NR
Vanadium	292.40		50	2.3	P
Zinc	213.86		20	1.6	P

Comments:

Instrument Detection Limits (Quarterly)

Name: CHESTER\_LABNET\_\_\_\_\_ Contract: 68-D5-0140  
 Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7  
 ICP ID Number: \_\_\_\_\_ Date: 10/15/95  
 Flame AA ID Number : \_\_\_\_\_  
 Furnace AA ID Number : TXPE4100\_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium	196.00	BZ	5	2.0	F
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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000032

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Name: CHESTER\_LABNET \_\_\_\_\_ Contract: 68-D5-0140  
 Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7  
 CP ID Number: \_\_\_\_\_ Date: 10/15/95  
 Flame AA ID Number : \_\_\_\_\_  
 Furnace AA ID Number : TXPE560\_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead	283.30	BD	3	1.1	F
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

000033

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Name: CHESTER\_LABNET\_\_\_\_\_ Contract: 68-D5-0140  
 Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7  
 ICP ID Number: \_\_\_\_\_ Date: 10/15/95  
 Flame AA ID Number : TXMAS50A\_\_\_\_\_  
 Furnace AA ID Number : \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic			10		NR
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury	253.70		0.2	0.1	CV
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium			10		NR
Vanadium			50		NR
Zinc			20		NR

Comments:

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000034

U.S. EPA - CLP

10

Instrument Detection Limits (Quarterly)

Name: CHESTER\_LABNET \_\_\_\_\_ Contract: 68-D5-0140  
 Lab Code: CHESTX Case No.: 24231\_ SAS No.: \_\_\_\_\_ SDG No.: MEACH7  
 CP ID Number: \_\_\_\_\_ Date: 10/15/95  
 Sample AA ID Number : \_\_\_\_\_  
 Furnace AA ID Number : TXPE3030 \_\_\_\_\_

Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
Aluminum			200		NR
Antimony			60		NR
Arsenic	193.70	BZ	10	2.7	F
Barium			200		NR
Beryllium			5		NR
Cadmium			5		NR
Calcium			5000		NR
Chromium			10		NR
Cobalt			50		NR
Copper			25		NR
Iron			100		NR
Lead			3		NR
Magnesium			5000		NR
Manganese			15		NR
Mercury			0.2		NR
Nickel			40		NR
Potassium			5000		NR
Selenium			5		NR
Silver			10		NR
Sodium			5000		NR
Thallium	276.00	BZ	10	1.5	F
Vanadium			50		NR
Zinc			20		NR

Comments:

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U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Lab Name: CHESTER\_LABNET

Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231

SAS No.: SDG No.: MEACH7

Instrument ID Number: TXTJA61

Method: P

Start Date: 01/19/96

End Date: 01/19/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N			
S0	1.00	1358		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
S	1.00	1402		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	1405		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
S	1.00	1408		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV	1.00	1410		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV	1.00	1414		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB	1.00	1417		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CRI	1.00	1421		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CRI	1.00	1424		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA	1.00	1427		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA B	1.00	1431		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV	1.00	1434		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	1.00	1437		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PBW	1.00	1441		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LCSW	1.00	1444		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LCSW	1.00	1448		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACH7	1.00	1453		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACH9	1.00	1456		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ1	1.00	1500		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ3	1.00	1503		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ5	1.00	1506		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ5D	1.00	1509		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ5S	1.00	1513		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV	1.00	1516		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB	1.00	1519		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ5L	5.00	1523		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
MEACJ7	1.00	1526		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CRI	1.00	1529		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA	1.00	1535		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ	1.00	1539		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV	1.00	1542		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB	1.00	1545		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

000044



14  
ANALYSIS RUN LOG

Name: CHESTER\_LABNET

Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231

SAS No.: SDG No.: MEACH7

Instrument ID Number: TXPE3030

Method: F

Start Date: 01/09/96

End Date: 01/09/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N			
S0	1.00	1200				X																							
S10	1.00	1205				X																							
S25	1.00	1210				X																							
S50	1.00	1215				X																							
S100	1.00	1220				X																							
ICV	1.00	1225				X																							
ICB	1.00	1230				X																							
CRA	1.00	1235				X																							
CCV	1.00	1240				X																							
CCB	1.00	1245				X																							
PBW	1.00	1250				X																							
PRWA	1.00	1255	111.5			X																							
SW	1.00	1300				X																							
LCSWA	1.00	1305	95.8			X																							
CCV	1.00	1310				X																							
CCB	1.00	1315				X																							
MEACH7	1.00	1320				X																							
MEACH7A	1.00	1325	105.5			X																							
MEACH9	1.00	1330				X																							
MEACH9A	1.00	1335	108.8			X																							
MEACJ1	1.00	1340				X																							
MEACJ1A	1.00	1345	106.8			X																							
MEACJ3	1.00	1350				X																							
MEACJ3A	1.00	1355	110.8			X																							
MEACJ5	1.00	1400				X																							
MEACJ5A	1.00	1405	110.3			X																							
CCV	1.00	1410				X																							
CCB	1.00	1415				X																							
MEACJ5D	1.00	1420				X																							
MEACJ5DA	1.00	1425	108.5			X																							
MEACJ5S	1.00	1430				X																							
MEACJ7	1.00	1435				X																							



U.S. EPA - CLP

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ANALYSIS RUN LOG

Lab Name: CHESTER\_LABNET

Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231

SAS No.: SDG No.: MEACH7

Instrument ID Number: TXPE560

Method: F

Start Date: 01/08/96

End Date: 01/08/96

EPA Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N			
S0	1.00	0800												X															
S3	1.00	0805												X															
S50	1.00	0810												X															
S100	1.00	0815												X															
ICV	100.00	0820												X															
ICB	1.00	0825												X															
CRA	1.00	0830												X															
CCV	1.00	0835												X															
CCB	1.00	0840												X															
CCV	1.00	0845												X															
CCB	1.00	0850												X															
ZZZZZZ	1.00	0855																											
ZZZZA	1.00	0900	106.0																										
LCSW	2.00	0905																											
LCSWA	2.00	0910	113.8																										
ZZZZZZ	1.00	0915																											
ZZZZZZA	1.00	0920	95.8																										
ZZZZZZ	1.00	0925																											
ZZZZZZA	1.00	0930	101.8																										
ZZZZZZ	1.00	0935																											
ZZZZZZA	1.00	0940	76.8																										
CCV	1.00	0945												X															
CCB	1.00	0950												X															
ZZZZZZ	1.00	0955																											
ZZZZZZA	1.00	1000	82.8																										
ZZZZZZ	1.00	1005																											
ZZZZZZ	1.00	1010																											
ZZZZZZA	1.00	1015	81.5																										
ZZZZZZ	1.00	1020																											
ZZZZZZA	1.00	1025	93.3																										
ZZZZZZ	1.00	1030																											
ZZZZZZA	1.00	1035	82.5																										

U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Name: CHESTER\_LABNET  
 Lab Code: CHESTX Case No.: 24231  
 Instrument ID Number: TXPE560  
 Start Date: 01/08/96

Contract: 68-D5-0140  
 SAS No.: SDG No.: MEACH7  
 Method: F  
 End Date: 01/08/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A	S	A	B	B	C	C	C	C	F	P	M	M	H	N	K	S	A	N	T	V	Z	C	
				L	B	S	A	E	D	A	R	O	U	E	B	G	N	G	I	E	G	A	L	N	N		
CCV	1.00	1040													X												
CC	1.00	1045													X												
ZZZZZZ	1.00	1050																									
ZZZZZZA	1.00	1055	91.0																								
CCV	1.00	1100													X												
CCB	1.00	1105													X												
CCV	1.00	1110													X												
CCB	1.00	1115													X												
PBW	1.00	1120																									
PBWA	1.00	1125	100.8																								
LCSW	100.00	1130													X												
LCSWA	100.00	1135	98.3												X												
MEACH7	1.00	1140													X												
MEACH7A	1.00	1145	95.8												X												
MEACH9	1.00	1150													X												
MEACH9A	1.00	1155	69.0												X												
MEACJ1	1.00	1200													X												
MEACJ1A	1.00	1205	100.5												X												
CC	1.00	1210													X												
CCB	1.00	1215													X												
MEACJ3	1.00	1220													X												
MEACJ3A	1.00	1225	94.8												X												
MEACJ5	1.00	1230													X												
MEACJ5A	1.00	1235	93.3												X												
MEACJ5D	1.00	1240													X												
MEACJ5DA	1.00	1245	93.0												X												
MEACJ5S	1.00	1250													X												
MEACJ7	1.00	1255													X												
MEACJ7A	1.00	1300	41.0												X												
CCV	1.00	1305													X												
CCB	1.00	1310													X												
PBW	1.00	1315													X												

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14  
ANALYSIS RUN LOG

Name: CHESTER\_LABNFT\_\_\_\_\_

Contract: 68-D5-0140

Lab Code: CHESTX Case No.: 24231\_

SAS No.: \_\_\_\_\_ SDG No.: MEACH7

Instrument ID Number: TXPE4100\_\_\_\_\_

Method: F\_

Start Date: 01/09/96

End Date: 01/09/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
0	1.00	1033																		X							
5	1.00	1038																		X							
S20	1.00	1043																		X							
50	1.00	1048																		X							
100	1.00	1053																		X							
ICV	1.00	1058																		X							
TCB	1.00	1102																		X							
RA	1.00	1107																		X							
CCV	1.00	1112																		X							
CCB	1.00	1117																		X							
BW	1.00	1122																		X							
RWA	1.00	1126	108.0																	X							
SW	1.00	1131																		X							
CSWA	1.00	1136	103.0																	X							
CV	1.00	1141																		X							
CCB	1.00	1146																		X							
MEACH7	1.00	1150																		X							
EACH7A	1.00	1155	86.0																	X							
E 19	1.00	1200																		X							
MEACH9A	1.00	1205	50.0																	X							
MEACJ1	1.00	1210																		X							
EACJ1A	1.00	1215	109.0																	X							
MEACJ3	1.00	1219																		X							
MEACJ3A	1.00	1224	106.0																	X							
EACJ5	1.00	1229																		X							
EACJ5A	1.00	1234	108.0																	X							
CCV	1.00	1239																		X							
CCB	1.00	1244																		X							
EACJ5D	1.00	1249																		X							
MEACJ5DA	1.00	1254	111.0																	X							
MEACJ5S	1.00	1258																		X							
EACJ7	1.00	1303																		X							

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ANALYSIS RUN LOG

Name: CHESTER\_LABNET  
Lab Code: CHESTX Case No.: 24231  
Instrument ID Number: TXPE3030  
Start Date: 01/09/96

Contract: 68-D5-0140  
SAS No.: SDG No.: MEACH7  
Method: F  
End Date: 01/09/96

EPA Sample No.	D/F	Time	% R	Analytes																						
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N
0	1.00	0700		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
31	1.00	0705		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
S25	1.00	0710		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
50	1.00	0715		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
100	1.00	0720		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICV	2.00	0725		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
TCB	1.00	0730		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
RA	1.00	0735		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	0740		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	0745		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
BW	1.00	0750		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PWA	1.00	0755	116.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N	1.00	0800		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
PBWA	1.00	0805	107.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CWS	2.00	0810		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CWSA	2.00	0815	97.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCV	1.00	0820		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CP	1.00	0825		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
IE_H7	1.00	0830		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACH7A	1.00	0835	119.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACH9	1.00	0840		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACH9A	1.00	0845	110.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACJ1	1.00	0850		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACJ1A	1.00	0855	118.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
IEACJ3	1.00	0900		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
IEACJ3A	1.00	0905	118.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACJ5	1.00	0910		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACJ5A	1.00	0915	117.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
ICV	1.00	0920		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
CCB	1.00	0925		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
MEACJ5D	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-
IEACJ5DA	1.00	0935	118.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-



U.S. EPA - CLP

14  
ANALYSIS RUN LOG

Name: CHESTER\_LABNET \_\_\_\_\_  
 Lab Code: CHESTX Case No.: 24231\_  
 Instrument ID Number: TXMAS50A \_\_\_\_\_  
 Start Date: 01/04/96

Contract: 68-D5-0140  
 SAS No.. \_\_\_\_\_ SDG No.: MEACH7  
 Method: CV  
 End Date: 01/04/96

EPA Sample No.	D/F	Time	% R	Analytes																							
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N
30	1.00	0915		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
30	1.00	0918		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S0.5	1.00	0921		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
31	1.00	0924		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
35	1.00	0927		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
S10	1.00	0930		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CV	1.00	0933		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CB	1.00	0936		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CRA	1.00	0939		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CCV	1.00	0942		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CB	1.00	0945		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
RW	1.00	0948		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
ZZZZ	1.00	0951		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
ZZZZZ	1.00	0954		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CV	1.00	0957		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CCB	1.00	1000		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACH7	1.00	1003		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACH9	1.00	1006		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEAJ1	1.00	1009		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACJ3	1.00	1012		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACJ5	1.00	1015		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACJ5D	1.00	1018		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACJ5S	1.00	1021		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
MEACJ7	1.00	1024		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CV	1.00	1027		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	
CB	1.00	1030		-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	

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

LAB NO. (if applicable) 24331

<b>1. Matrix</b> (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (specify in Column A)	<b>2. Preservative</b> (Enter in Column D) 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. K2CR2O7 6. Ice only 7. Other (specify in Column D) N. Not preserved	<b>2. Region No.</b> <u>5</u> <b>State</b> <u>Earth Tech</u> <b>Lab Co.</b>	<b>4. Date Shipped</b> <u>12/19/95</u> <b>Carrier</b> <u>Federal Express</u>	<b>6. Date Received -- Received by:</b> <u>12-20-95 2:15 Eburnardo</u>	
		<b>3. Purpose*</b> <input type="checkbox"/> Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD	<b>Sampler (Name)</b> <u>Tillie J. Conway</u>	<b>Airbill Number</b> <u>7357267915</u>	<b>Laboratory Contract Number</b> <u>68-05-0140</u> <b>Unit Price</b> <u>84.50</u>
		<b>Sampler Signature</b> <u>[Signature]</u>	<b>5. Ship To</b> <u>Chester Latnet</u> <u>3200 West Park Dr.</u> <u>Houston TX 77063</u>	<b>7. Transfer to:</b> _____ <b>Date Received</b> _____	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E - RAS Analysis							F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Organic Sample No.	J Sampler Initials	K High Phases			
					Diss. Metals	Total Metals	Cyanide	NO2/NO3	Low only	High only	Fluoride						pH	Conduct.	Solids	Water-Microbe Lig.
MEACT3	2	L	G	2	X								5-153157	11-D-MW-6-1	12/19/95/1605	EANW4	BJC			
MEACT1	2	L	G	2	X								5-153140	11-S-MW-6-1	12/19/95/1605	EANW3	BJC			
MEACT5	2	L	G	2	X								5-153198	11-S-MW-7-1	12/18/95/1450	EANW5	BJC			
	↓	↓	↓	↓	↓								5-153199							
	↓	↓	↓	↓	↓								5-153197							
MEACH7	2	L	G	2	X								5-153119	11-S-MW-4T	12/19/95/1210	EANW2	BJC			
MEACH9	2	L	G	2	X								5-153129	11-S-MW-4D	12/19/95/0910	EANW2	BJC			
MEACT7	2	L	G	2	X								5-153170	11-S-MW-8D-1	12/19/95/0930	EANW6	BJC			

Shipment for Case Complete? (Y/N)	Page <u>1</u> of <u>1</u>	Sample(s) to be Used for Laboratory QC <u>MEACT5 - MS/MSD</u>	Additional Sampler Signatures	Chain of Custody Seal Number(s) <u>46753, 46754</u>
-----------------------------------	---------------------------	--	-------------------------------	--

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <u>[Signature]</u>	Date / Time <u>12/19/95 1500</u>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <u>Eburnardo</u>	Date / Time <u>12/20/95 2:15</u>	Remarks <u>SDG: MEACH7</u>	Is custody seal intact? <u>Y/N/none</u>

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A21-012-6 REV. 3/93

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN  
Case No: 24231 Site Name Location: Continental Steel  
Contractor or EPA Lab: Chester LABNET Data User: COM  
No. of Samples: 6 Date Sampled or Data Received: mtf 12-1-25-9

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

Are basic data forms in? Yes  No   
No of samples claimed: 6 No. of samples received: 6  
Received by: M. Jettner Date: 1/25/96  
Received by LSSS: \_\_\_\_\_ Date: \_\_\_\_\_  
Review started: 1/25/96 Reviewer Signature: M. Jettner  
Total time spent on review: 6.2 Date review completed: 1/26/96  
Copied by: Lynette Burnett Date: 2/5/96  
Mailed to user by: Lynette Burnett Date: 2/5/96

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

1st Quarter Received 2/16/96  
L.L. Monitoring wells  
Vols, Semivols, Particles/P.E.

Page 1 of 10

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Region V CLP Data Received for Review on 1-23-96

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

TO: Data User: EarthTech Patricia Scott for  
Steve Ostrodka 02/07/96

We have reviewed the data for the following case:

SITE NAME: Lemon Lane LF (IN)

CASE NUMBER: 24331 SDG NUMBER: EANW1

Number and Type of Samples: 8 water

Sample Numbers: · EANW1 - EANW8

Laboratory: ATAS Hrs. for Review: 8 1/2 when 7-31-96

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

Patricia Scott

cc: Regional TPO  
Brian Freeman  
HSMC-5J

NARRATIVE

CASE: 24331  
SDG# EANW1  
LABORATORY: ATAS, Inc.  
SITE: Lemon Lane Landfill (IN)

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

This review covers eight water samples (EANW1 through EANW8) for complete organic analysis at low levels except for samples EANW7 and EANW8, which were analyzed for volatiles only. The samples were collected on 12/17/95 through 12/19/95 and all were received by the lab on 12/21/95.

The reviewer's narrative and data qualifiers follow.

Reviewed by: Al Venuto (Lockheed/ESAT)  
Date: 31 January 1996



**NARRATIVE**

CASE: 24331  
SDG# EANW1  
LABORATORY: ATAS, Inc.  
SITE: Lemon Lane Landfill (IN)

**1. Holding Times:**

All samples were analyzed for volatiles well within the fourteen day holding time from date of sampling for preserved waters.

All samples analyzed for semi-volatiles and pesticides/PCBs were extracted well within the seven day holding times for these fractions; all extracts were very promptly analyzed.

**2. GC/MS Tuning and GC Instrument Performance:**

The GC/MS tunings and mass calibrations were all within the required Q.C. limits. All pesticide breakdown results were well below the maximum permissible limits. All pesticide resolution checks were satisfactory.

**3. Calibration:**

The volatile and semi-volatile calibration outliers are listed on the outliers forms; there were no pesticide outliers, but the forms are included for reference. All RPDs in the pesticide calibration verification summaries (Pest-1) were below the maximum permissible 25%.

**4. Method Blanks:**

Both volatile method blanks contained the common contaminant methylene chloride (well below CRQL); this compound was also found in all of the samples. In addition, VBLKDL contained a single TIC, but this TIC was not found in any of the associated samples.

The semi-volatile method blank contained no target compounds, but did contain ten early-eluting TICs (all between 5.0 and 6.5 minutes); all of the samples also contained most of these TICs.

The pesticide method blank contained only the target analyte Heptachlor (only a tiny fraction of CRQL); this compound was also found at similar levels in samples EANW2 and EANW6, and necessarily at higher levels in EANW5MS and EANW5MSD, since they were both spiked with this compound.

Reviewed by: Al Venuto (Lockheed/ESAT)  
Date: 31 January 1996

## NARRATIVE

CASE: 24331  
SDG# EANW1  
LABORATORY: ATAS, Inc.  
SITE: Lemon Lane Landfill (IN)

Target analytes and TICs found in both the sample and the associated method blank, and therefore flagged "B" by the lab, are further flagged "U" by the reviewer if the analytes are present in the sample at no more than five times (or ten times for common contaminants) the amount in the method blank. If the value is less than CRQL, it is deleted and raised to CRQL by the reviewer.

**5. Surrogate Recoveries:**

All surrogate recoveries for all fractions were within the Q.C. limits.

**6. Matrix Spikes and Matrix Spike Duplicates:**

Sample EANW5 was chosen for matrix spiking. All MS and MSD recoveries and RPDs for all fractions were well within the Q.C. limits.

**7. Field Duplicates and Field Blanks:**

Sample EANW4 was identified as duplicate of EANW3; both sets of analyses were nearly identical except that the pesticide/PCB fraction of EANW4 alone contained Aroclor 1260.

Samples EANW7 and EANW8 were identified as trip blanks and analyzed for volatiles only; both contained only methylene chloride (also found in the associated method blank).

**8. Internal Standards Performance:**

All volatile IS areas were very well within the Q.C. limits. All semi-volatile IS areas were within the limits.

**9. Compound Identification:**

The compound identifications for all fractions appear to be satisfactory.

**10. Compound Quantitation and Reported Detection Limits:**

The correct limits were used and no dilutions were made; therefore, no adjustments were necessary.

Reviewed by: Al Venuto (Lockheed/ESAT)  
Date: 31 January 1996

NARRATIVE

CASE: 24331  
SDG# EANW1  
LABORATORY: ATAS, Inc.  
SITE: Lemon Lane Landfill (IN)

11. System Performance:

All aspects of the system performance appear to be satisfactory.

12. Additional Case-Specific Problems:

None noted.

Reviewed by: Al Venuto (Lockheed/ESAT)  
Date: 31 January 1996

CALIBRATION OUTLIER

Volatile TCL

(Page 1 of 1)

CASE/SAS #: 24331  
 COLUMN: DB-624  
 HEATED PURGE (Y/N) N

LABORATORY: ATAS, INC.  
 SITE NAME: Lemon Lane LF (IN)

Instrument ID:	D	Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date:	12-21-95												
Time:		12-21-95 9:53			12-22-95 9:58								
	#	RF	XRSD	*	RF	XD	*	RF	XD	*	RF	XD	*
Chloromethane	0.010												
Bromomethane	0.100												
Vinyl Chloride	0.100												
Chloroethane	0.010												
Methylene Chloride	0.010												
Acetone	0.010	.785			.504	35.8	J						
Carbon Disulfide	0.010												
1,1-Dichloroethene	0.100												
1,1-Dichloroethane	0.200												
1,2-Dichloroethene (total)	0.010												
Chloroform	0.200												
1,2-Dichloroethane	0.100												
2-Butanone	0.010	1.180			.782	33.7	J						
1,1,1-Trichloroethane	0.100												
Carbon Tetrachloride	0.100												
Bromodichloromethane	0.200												
1,2-Dichloropropane	0.010												
cis-1,3-Dichloropropene	0.200												
Trichloroethene	0.300												
Dibromochloromethane	0.100												
1,1,2-Trichloroethane	0.100												
Benzene	0.500												
trans-1,3-Dichloropropene	0.100												
Bromoform	0.100												
4-Methyl-2-Pentanone	0.010	.444			.245	44.8	J						
2-Hexanone	0.010	.398			.188	52.8	J						
Tetrachloroethene	0.200												
1,1,2,2-Tetrachloroethane	0.300												
Toluene	0.400												
Chlorobenzene	0.500												
Ethylbenzene	0.100												
Styrene	0.300												
Xylene (total)	0.300												
Toluene-d <sub>8</sub>	0.010												
Bromofluorobenzene	0.200												
1,2-Dichloroethane-d <sub>2</sub>	0.010												

Affected Samples:

VBLKDL VBLKDM

EANW1	EANW3	EANW5
EANW2	EANW5MS	
EANW6	EANW5MSD	
	EANW7	
	EANW8	

# Minimum Relative Response Factor.

\* These flags should be applied to the analytes on the sample data sheets.

J/R = All positive results are estimated, "J" and non-detected results are unusable

Reviewer's Init/Date: AV 1-31-96

CALIBRATION OUTLIER  
Semivolatile TCL  
(Page 1 of 2)

CASE/SAS #: 24331  
COLUMN: \_\_\_\_\_

LABORATORY: ATAS, INC.  
SITE NAME: Lemon Lane LF (IN)

Instrument ID: <u>E</u>	Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
Date: <u>12-18-95</u>												
Time:	<u>12-18-95 16:29</u>			<u>12-29-95 12:48</u>			<u>1-2-96 13:46</u>					
#	RF	XRSD	*	RF	XD	*	RF	XD	*	RF	XD	*
Phenol	0.800											
bis(2-Chloroethyl)ether	0.700											
2-Chlorophenol	0.800											
1,3-Dichlorobenzene	0.600											
1,4-Dichlorobenzene	0.500											
1,2-Dichlorobenzene	0.400											
2-Methylphenol	0.700											
2,2-oxybis(1-Chloropropane)	0.010	<u>1.838</u>			<u>3957</u>	<u>111.5 J</u>		<u>3.132</u>	<u>704 J</u>			
4-Methylphenol	0.600											
N-Nitroso-di-n-propylamine	0.500	<u>1.075</u>			<u>1.466</u>	<u>36.4 J</u>		<u>1.129</u>				
Hexachloroethane	0.300											
Nitrobenzene	0.200											
Isophorone	0.400											
2-Nitrophenol	0.100											
2,4-Dimethylphenol	0.200											
bis(2-Chloroethoxy)methane	0.300											
2,4-Dichlorophenol	0.200											
1,2,4-Trichlorobenzene	0.200											
Naphthalene	0.700											
4-Chloroaniline	0.010	<u>376</u>			<u>523</u>	<u>39.1 J</u>		<u>471</u>	<u>253 J</u>			
Hexachlorobutadiene	0.010											
4-Chloro-3-methylphenol	0.200											
2-Methylnaphthalene	0.400											
Hexachlorocyclopentadiene	0.010											
2,4,6-Trichlorophenol	0.200											
2,4,5-Trichlorophenol	0.200											
2-Chloronaphthalene	0.800											
2-Nitroaniline	0.010											
Dimethylphthalate	0.010											
Acenaphthylene	0.900											
2,6-Dinitrotoluene	0.200											
3-Nitroaniline	0.010											
Acenaphthene	0.900											
2,4-Dinitrophenol	0.010											

SBLKEA

Affected Samples:

	<u>EANW1</u>	<u>EANW6</u>	
	<u>through</u>		
	<u>EANW5</u>		
	<u>EANW5MS</u>		
	<u>EANW5MSD</u>		

# Minimum Relative Response Factor.  
\* These flags should be applied to the analytes on the sample data sheets.  
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-31-96

CALIBRATION OUTLIER  
Semivolatile TCL  
(Page 2 of 2)

CASE/SAS #: 24331  
COLUMN: \_\_\_\_\_

LABORATORY: ATAS, INC.  
SITE NAME: Lemon Lane LF (IN)

Instrument ID: <u>E</u>	Initial Cal.			Cont. Cal.			Cont. Cal.			Cont. Cal.		
	Date: <u>12-18-95</u>	Time: <u>12-18-95 16:29</u>	Time: <u>12-29-95 12:48</u>	Time: <u>1-2-96 13:46</u>	Time:	Time:	Time:	Time:	Time:	Time:	Time:	
	#	RF	XRSD *	RF	XD *	RF	XD *	RF	XD *	RF	XD *	
4-Nitrophenol	0.010	.234		.092	10.7 J	.083	64.5 J					
Dibenzofuran	0.800											
2,4-Dinitrotoluene	0.200											
Diethylphthalate	0.010	1.720		1.379		1.265	26.5 J					
4-Chlorophenyl-phenylether	0.400											
Fluorene	0.900											
4-Nitroaniline	0.010											
4,6-Dinitro-2-methylphenol	0.010											
N-nitrosodiphenylamine	0.010											
4-Bromophenyl-phenylether	0.100	.194		.247	27.3 J	.233						
Hexachlorobenzene	0.100											
Pentachlorophenol	0.050											
Phenanthrene	0.700											
Anthracene	0.700											
Carbazole	0.010											
Di-n-butylphthalate	0.010											
Fluoranthene	0.600											
Pyrene	0.600											
Butylbenzylphthalate	0.010	1.537		1.129	26.5 J	.981	36.2 J					
3-3'-Dichlorobenzidine	0.010											
Benzo(a)anthracene	0.800											
Chrysene	0.700											
bis(2-Ethylhexyl)phthalate	0.010	1.915		1.428	25.4 J	1.326	30.8 J					
Di-n-octylphthalate	0.010	3.619		2.684	25.8 J	2.272	37.2 J					
Benzo(b)fluoranthene	0.700											
Benzo(k)fluoranthene	0.700											
Benzo(a)pyrene	0.700											
Indeno(1,2,3-cd)pyrene	0.500											
Dibenz(a,h)anthracene	0.400											
Benzo(g,h,i)perylene	0.500											
Nitrobenzene-d <sub>5</sub>	0.200											
2-Fluorobiphenyl	0.700											
Terphenyl-d <sub>14</sub>	0.500											
Phenol-d <sub>5</sub>	0.800											
2-Fluorophenol	0.600											
2,4,6-Tribromophenol	0.010											
2-Chlorophenol-d <sub>4</sub>	0.800											
1,2-Dichlorobenzene-d <sub>4</sub>	0.400											

# Minimum Relative Response Factor.  
\* These flags should be applied to the analytes on the sample data sheets.  
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-31-96

CALIBRATION OUTLIER  
Pesticide/PCB TCL  
(Page 1 of 1)

CASE/SAS #: 24331  
COLUMN: DB17

LABORATORY: ATAS, INC  
SITE NAME: Lemon Lane LF (IN)

Instrument Number	Initial Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.
#B05B					
Date					
12-5-95					
Time	12-8-95 15:27	12-27-95 15:44	12-28-95 19:17		
	XRSD	*	XD	*	XD
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC					
Hepachlor					
Aldrin					
Heptachlor Epoxide					
Endosulfan I					
Dieldrin					
4,4'-DDE					
Endrin					
Endosulfan II					
4,4'-DDD					
Endosulfan Sulfate					
4,4'-DDT					
Methoxychlor					
Endrin Ketone					
Endrin Aldehyde					
alpha-Chlordane					
gamma-Chlordane					
Aroclor 1016					
Aroclor 1221					
Aroclor 1232					
Aroclor 1242					
Aroclor 1248					
Aroclor 1254					
Aroclor 1260					

Affected Samples:

	PBLK5W			
	EANW1			
	through			
	EANW2			
	EANW5MS			
	EANW5MSD			

\* These flags should be applied to the analytes on the sample data sheets.  
J/R = All positive results are estimated "J" and non-detected results are unusable "R".

Reviewer's Init/Date: AV 1-31-96

CALIBRATION OUTLIER  
Pesticide/PCB TCL  
(Page 1 of 1)

CASE/SAS #: 24331  
COLUMN: PB-1701

LABORATORY: ATAS, INC  
SITE NAME: Simon Lane LF CA

Instrument Number	Initial Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.	Cont. Cal.
HB-05A						
Date	12-8-95					
Time	15:27	12-27-95 15:40		12-28-95 19:17		
	XRSD	*	XD	*	XD	*
alpha-BHC						
beta-BHC						
delta-BHC						
gamma-BHC						
Hepachlor						
Aldrin						
Heptachlor Epoxide						
Endosulfan I						
Dieldrin						
4,4'-DDE						
Endrin						
Endosulfan II						
4,4'-DDD						
Endosulfan Sulfate						
4,4'-DDT						
Methoxychlor						
Endrin Ketone						
Endrin Aldehyde						
alpha-Chlordane						
gamma-Chlordane						
Aroclor 1016						
Aroclor 1221						
Aroclor 1232						
Aroclor 1242						
Aroclor 1248						
Aroclor 1254						
Aroclor 1260						

Affected Samples:

PBLK 5W	
EANW1	
<del>EANW1</del>	
EANW6	
EANW5MS	
EANW5MSD	

\* These flags should be applied to the analytes on the sample data sheets.  
J/R = All positive results are estimated "J" and non-detected results are unusable \*

Reviewer's Init/Date: AV 1-31-96



## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

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

- U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
  - J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound but the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
  - R Indicates the data are unusable. (Note: The analyte may or may not be present.)
  - N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
  - P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
  - C Indicates pesticide results that have been confirmed by GC/MS.
  - B Indicates the analyte is detected in the associated blank as well as the sample.
  - E Indicates compounds whose concentrations exceed the calibration range of the instrument.
  - D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
  - A Indicates tentatively identified compounds that are suspected to be aldol condensation products.
  - G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
  - L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
  - T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.
- X, Y, Z are reserved for laboratory defined flags.



United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case No.

<b>1. Matrix</b> (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	<b>2. Preservative</b> (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	<b>2. Region No.</b> 5	<b>Sampling Co.</b> Earth Tech	<b>4. Date Shipped</b> 12/21/95	<b>Carrier</b> Fed. Exp.	<b>6. Date Received -- Received by:</b> 12-21-95 J. Manley		
		<b>Sampler (Name)</b> Bette T. Conway		<b>Airbill Number</b> 7359267882		<b>Laboratory Contract Number</b> 68-D5-0018	<b>Unit Price</b> \$16.95	
		<b>Sampler Signature</b> Bette T. Conway		<b>5. Ship To</b> American Technical Analytical Services 875 Fee Fee Rd Maryland Heights MO 63043-3211 ATTN: Sample Custodian		<b>7. Transfer to:</b>		<b>Date Received</b>
		<b>3. Purpose*</b> <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI Lead: <input type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED Long-Term Action: <input type="checkbox"/> FS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD		<b>Received by</b>		<b>Contract Number</b>		<b>Price</b>

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pest/PCB	High only ARO/TOX						Solids	Water-Miscible Liq.	Water-Immns. Liq.
EANW2	2	L	G	5		X	X		5-153125, 5-153126	LL-S-M10-4D-1	12/18/95/1100	MEAC17, MEAC18	JSC			
EANW1	2	L	G	5		X	X		5-153115, 5-153116	LL-S-M10-4E-1	12/18/95/1310	MEAC17, MEAC18	JSC			

Shipment for Case Complete? (Y/N)	Page 1 of 1	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s) 46759, 46760
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**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) Bette Conway	Date / Time 12/21/95 1100	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) J. Manley	Date / Time 12-21-95 0943	Remarks 2°C	Is custody seal intact? (Y/N) none

DISTRIBUTION: Blue - Region Copy  
White - Lab Copy for Return to Region

Pink - SMO Copy  
Yellow - Lab Copy for Return to SMO

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

EANW1

362678

A21-012-4 REV. 3/93



United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case No.

1. Matrix (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No. <b>5</b>	3. Sampling Co. <b>EarthTech</b>	4. Date Shipped <b>12/20/95</b>	Carrier <b>Federal Express</b>	6. Date Received -- Received by: <b>12-21-95 J. Manley</b>	
		Sampler (Name) <b>Bette J. Conway</b>		Airbill Number <b>7359267356</b>		Laboratory Contract Number <b>68-D5-0018</b>	Unit Price <b>3616.95</b>
		Sampler Signature <i>Bette J. Conway</i>		5. Ship To <b>American Technical &amp; Analytical Services 875 Fee Fee Road Maryland Heights, MO 63043-3211</b>		7. Transfer to:  Date Received	
3. Purpose* <input type="checkbox"/> Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED		Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD		Received by  Contract Number  Price	

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	pest/PCB	High only ARO/TOX						Solids	Water-Miscible Lq.	Water-Imm. Lq.
EANW4	2	L	G	S		X	X		5-153153, 5-153154	LL-D-MW-6-1	12/18/95/1605	ME1C53, ME1C54	JSC			
EANW3	2	L	G	S		X	X		5-153135, 5-153136	LL-S-MW-6-1	12/18/95/1605	ME1C51, ME1C52	JSC			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
	1 of 1			4176

#### CHAIN OF CUSTODY RECORD

Relinquished by: (Signature) <i>Bette J. Conway</i>	Date / Time <b>12/21/95 11:00</b>	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: Laboratory by: (Signature) <i>J. Manley</i>	Date / Time <b>12-21-95 0943</b>	Remarks <b>SC</b>	Is custody seal intact? <b>Y/N/none</b>

100014

A21-012-4 REV 3/93



United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case No.  
745-1

1. Matrix (Enter in Column A) 1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D) 1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No. 5	Sampling Co. Earth Tech	4. Date Shipped 12/20/95	Carrier Federal Express	6. Date Received -- Received by: 12-21-95 J. Manley
		Sampler (Name) Beth T. Conway	Airbill Number 7359267860	7. Transfer to:		Received by
		Sampler Signature Beth T. Conway	5. Ship To American Technical & Analytical Service 375 Fee Fee Road Maryland Heights MO 63043-3111 ATTN: SAMPLE CUSTODIAN	Laboratory Contract Number 68-D5-0018	Unit Price \$616.95	Date Received

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./Grab	D Preservative (from Box 2) Other:	E RAS Analysis					F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pos/PCB	High only	ARO/TOX						Solids	Water-Miscible Liq	Water-Immisc. Liq
EANW5	2	L	G	5			XX		5-1531164, 5-1531165	US-MO-7-1	12/20/95						
									5-1531166, 5-1531167								

Shipment for Case Complete? (Y/N) Y	Page 1 of 1	Sample(s) to be Used for Laboratory QC EANW5 - MS/MSD	Additional Sampler Signatures	Chain of Custody Seal Number(s) 41765, 41766
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**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) Beth T. Conway	Date / Time 12/20/95 1600	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) J. Manley	Date / Time 12-21-95 0943	Remarks 6L	Is custody seal intact? (Y/N) none

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

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

EANW1

362681

A21-0124 REV 3/93



United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case No.

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

2. Preservative (Enter in Column D)  
1. HCl  
2. HNO3  
3. NaHSO4  
4. H2SO4  
5. Ice only  
6. Other (Specify in Column D)  
N. Not preserved

2. Region No. 5 Sampling Co. Earth Tech

4. Date Shipped 12/19/95 Carrier Federal Express

6. Date Received -- Received by: 12-21-95 F. M...  
Laboratory Contract Number 68-D5-0018 Unit Price \$616.95

Sampler (Name) Betty T. Conway  
Sampler Signature Betty T. Conway  
Airbill Number 7359267893

5. Ship To American Technical & Analytical Service  
875 Fec. Fec. Rd.  
Maryland Heights, MO 63043-3211  
ATTN: Sample Custodian

7. Transfer to: Received by: Contract Number Price

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc.: Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	PAH/ PCB	High only ARO/TOX						Solids	Water-Miscible Lq	Water-Immns. Lq
EANW5	2	L	G	1	X			5-153168, 5-153169, 5-153193	LL-S-MW-7-1	12/18/95/14.5	MEACT5, MEACT6	BTC				
								5-153194, 5-153195, 5-153196								
EANW6	2	L	G	1	X			5-153172, 5-153189	LL-S-MW-8D-1	12/19/95/09.3	MEACT7, MEACT8	BTC				
EANW3	2	L	G	1	X			5-153138, 5-153137	LL-S-MW-6-1	12/18/95/16.05	MEACT1, MEACT3	BTC				
EANW4	2	L	G	1	X			5-153155, 5-153156	LL-D-MW-6-1	12/18/95/16.15	MEACT3, MEACT4	BTC				
EANW7	2	L	G	1	X			5-153251, 5-153176	LL-TB-MW-1-1	12/17/95/23.45		BTC				
EANW8	2	L	G	1	X			5-153252, 5-153253	LL-TB-MW-2-1	12/17/95/23.50		BTC				
EANW2	2	L	G	1	X			5-153128, 5-153127	LL-S-MW-4D-1	12/18/95/11.2	MEACT9, MEACT10	BTC				
EANW1	2	L	G	1	X			5-153118, 5-153117	LL-S-MW-4I-1	12/18/95/12.10	MEACT17, MEACT18	BTC				

Shipment for Case Complete? (Y/N)  Y

Page 1 of 1

Sample(s) to be Used for Laboratory QC EANW5 MS/MSD

Additional Sampler Signatures

Chain of Custody Seal Number(s) 46757, 46758

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) Betty Conway	Date / Time 12/21/95 1600	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature) F. M...	Laboratory by:	Date / Time 12-21-95 0943	Remarks Is custody seal intact? <input checked="" type="checkbox"/> Y/N/none 1°C



United States Environmental Protection Agency  
Contract Laboratory Program

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

SAS No.  
(if applicable)

Case No.

1. Matrix (Enter in Column A)  1. Surface Water 2. Ground Water 3. Leachate 4. Field QC 5. Soil/Sediment 6. Oil (High only) 7. Waste (High only) 8. Other (Specify in Column A)	2. Preservative (Enter in Column D)  1. HCl 2. HNO3 3. NaHSO4 4. H2SO4 5. Ice only 6. Other (Specify in Column D) N. Not preserved	2. Region No. <b>5</b>	Sampling Co. <b>Earth Tech</b>	4. Date Shipped <b>12/20/95</b>	Carrier <b>Federal Express</b>	6. Date Received -- Received by: <b>12-21-95 J. Manley</b>	
		Sampler (Name) <b>Bette J. Conway</b>		Airbill Number <b>7359267571</b>		Laboratory Contract Number <b>68-D5-0018</b>	Unit Price <b>\$616.95</b>
		Sampler Signature <i>Bette J. Conway</i>		5. Ship To <b>American Technical Analytical Services 875 Fee Fee Rd Maryland Heights 110 63043-3211</b>		7. Transfer to:  Received by: <b>0000</b>	
3. Purpose* Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED		Early Action <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input checked="" type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI		Long-Term Action <input type="checkbox"/> FS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLD		Contract Number	Price

ATTN: Sample Custodian

CLP Sample Numbers (from labels)	A Matrix (from Box 1) Other:	B Conc. Low Med High	C Sample Type: Comp./ Grab	D Preservative (from Box 2) Other:	E RAS Analysis				F Regional Specific Tracking Number or Tag Numbers	G Station Location Identifier	H Mo/Day/Year/Time Sample Collection	I Corresponding CLP Inorganic Sample No.	J Sampler Initials	K High Phases		
					VOA	BNA	Pest/POB	High only ARO/TOX						Solids	Water-Miscible Lq	Water-Immns. Lq
EA1106	2	L	G	S		X	X		5-153171, 5-153186	LL-S-MW-8D-1	12/18/95/1005	MEACT7, MEACT8	BJC			
EA1105	2	L	G	S		X	X		5-153162, 5-153163	LL-S-MW-7-1	12/13/95/1450	MEACT5, MEACT6	BJC			

Shipment for Case Complete? (Y/N)	Page	Sample(s) to be Used for Laboratory QC	Additional Sampler Signatures	Chain of Custody Seal Number(s)
(Y)	1 of 1	EA1105, MS/MSD		16761, 16762

**CHAIN OF CUSTODY RECORD**

Relinquished by: (Signature) <i>Bette Conway</i>	Date / Time 12/20/95 1600	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) <i>J. Manley</i>	Date / Time 12-21-95 0943	Remarks 3°C	Is custody seal intact? (Y/N) none

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

EPA Form 9110-2

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PUFPOSE CODE DEFINITIONS

\*SDG FINAL SAMPLE 12-21-95

EA1105

362679

A21-012-4 REV 3/93

**RECEIVED**  
 AMERICAN TECHNICAL & ANALYTICAL SERVICES, INC.  
 875 FEE FEE ROAD  
 MARYLAND HEIGHTS, MISSOURI 63043  
 (314) 434-4570

JAN 20 1995

US EPA CENTRAL REGIONAL LAB.  
 536 S. CLARK ST.  
 CHICAGO, ILLINOIS 60605

**SDG NARRATIVE**

**CONTRACT:** 68-D5-0018  
**CASE:** 24331  
**SDG #:** EANW1  
**REGION:** V

The samples listed below were received in good condition on December 21, 1995.  
 All samples had sufficient volume for analysis. See pages 1080-1082.

<u>ATAS ID</u>	<u>EPA SAMPLE ID</u>	<u>MATRIX</u>
14572.01	EANW2 MW-50	WATER
14572.02	EANW1 MW-41	WATER
14572.03	EANW4 MW-6 DUP	WATER
14572.04	EANW3 MW-6	WATER
14572.05	EANW5 MW-7	WATER
14572.06	EANW5MS	WATER
14572.07	EANW5MSD	WATER
14572.08	EANW6 MW-50	WATER
14572.09	EANW7 MW-1	WATER
14572.10	EANW8 MW-2	WATER

**VOLATILE SAMPLE ANALYSIS:**

The samples were analyzed following CLP SOW (OLM03.2).

The trap used for Volatile analysis is: Tekmar OV-1/Tenax/Silica, with 1 cm of OV-1, 15 cm of Tenax and 8 cm of Silica.

The column used for Volatile analysis is: J & W DB-624, 75 meter, 0.53 mm ID, 3 micron film thickness.

All water samples in this SDG for volatile analysis have a pH of 2.

000001

**SEMIVOLATILE SAMPLE ANALYSIS:**

The samples were analyzed following CLP SOW (OLM03.2).

The column used for Semivolatile analyses is: Restek XTI-5 (bonded 5% phenyl-95% dimethyl polysiloxane), 30m, 0.25 mm ID, 1.0 micron film thickness.

The following samples had alkane reports and these reports are at the back of this narrative: EANW1, EANW2, EANW3, EANW4, EANW5 and EANW6.

**PESTICIDE/PCB SAMPLE ANALYSIS:**

The samples were analyzed following CLP SOW (OLM03.2).

The columns used for this Pesticide/PCB analysis are: J&W DB-1701, 30 meter, 0.32 mm ID, 0.25 micron film thickness and J&W DB-17, 30 meter, 0.32 mm ID, 0.25 micron film thickness.

Some single-component target compounds were not reported due to co-elution with Aroclor 1248 and/or Aroclor 1260. The Pesticide Residue Expert scratched all target compounds that were false positives due to the Aroclors present.

**MISCELLANEOUS:**

The CAS numbers on some of the TIC compounds may be 0-00-0. The NBS 75K library database does not have the correct CAS number for these compounds and it assigns "0-00-0" as the CAS number.

All manual integrations in this data package for Volatile, Semivolatile and Pesticide/PCB analysis have been performed for one of the following reasons.

- a. Data system missed peak during acquisition.
- b. Data system improperly integrated peak.

The manual integrations in this data package are placed behind their associated standards or samples.

**ADDITIONAL BILLABLES:**

<b>VOLATILE ANALYSIS</b>	<b>SEMIVOLATILE ANALYSIS</b>	<b>PESTICIDE/PCB ANALYSIS</b>
None	None	None



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 hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the laboratory manager or his designee, as verified by the following signature.

A handwritten signature in cursive script that reads "Richard Lowe".

**Richard Lowe**  
**Laboratory Manager**

**January 22, 1996**

000003

2A  
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKDL	94	90	81		0
02	EANW2	89	90	86		0
03	EANW1	89	91	84		0
04	EANW6	88	87	82		0
05	VBLKDM	97	97	88		0
06	EANW4	94	94	86		0
07	EANW3	95	97	90		0
08	EANW5	96	98	90		0
09	EANW5MS	98	98	89		0
10	EANW5MSD	96	99	93		0
11	EANW8	96	97	89		0
12	EANW7	94	97	87		0
13	VBLKDN	98	100	95		0
14	VHBLKDN	96	99	94		0
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QC LIMITS

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

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

3A  
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Name: ATAS, INC.

Contract: 68-D5-0018

b Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix Spike - EPA Sample No.: EANW5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	45	90	61-145
Trichloroethene	50	4	50	92	71-120
Benzene	50	0	47	94	76-127
Toluene	50	0	47	94	76-125
Chlorobenzene	50	0	46	92	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	50	42	84	7	14 61-145
Trichloroethene	50	49	90	2	14 71-120
Benzene	50	47	94	0	11 76-127
Toluene	50	46	92	2	13 76-125
Chlorobenzene	50	45	90	2	13 75-130

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

\* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

---

4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKDL

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Lab File ID: D4306.D

Lab Sample ID: 122195-01

Date Analyzed: 12/21/95

Time Analyzed: 1323

GC Column: DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: D

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	EANW2	14572.01	D4316.D	1821
02	EANW1	14572.02	D4317.D	1849
03	EANW6	14572.08	D4320.D	2014
04				
05				
06				
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COMMENTS:

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4A  
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKDM

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Lab File ID: D4324.D

Lab Sample ID: 122295-01

Date Analyzed: 12/22/95

Time Analyzed: 1046

GC Column: DB-624 ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: D

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	-----	-----	-----	-----
01	EANW4	14572.03	D4325.D	1228
02	EANW3	14572.04	D4326.D	1256
03	EANW5	14572.05	D4327.D	1325
04	EANW5MS	14572.06	D4328.D	1409
05	EANW5MSD	14572.07	D4329.D	1439
06	EANW8	14572.10	D4331.D	1536
07	EANW7	14572.09	D4333.D	1635
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COMMENTS:

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000023

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLKDL

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122195-01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4306.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKDL

Lab Name: ATAS, INC.

Contract: 68-D5-C018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122195-01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4306.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 55429-85-1	Benzeneethanamine, N-[(penta	18.605	24	NJ
2.				
3.				
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKDM

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4324.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKDM

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4324.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW1

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4317.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW1

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4317.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 67-63-0	Isopropyl Alcohol	6.469	24	NJ
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW2

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4316.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanon	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

1E  
 VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW2

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4316.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: ATAS, INC.

Contract: 68-D5-0018

EANW3  
*MW6*

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4326.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	94	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

000045

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW3

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4326.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: ATAS, INC.

Contract: 68-D5-0018

EANW4  
mw-6 DP

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4325.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	-----Chloromethane	10	✓
74-83-9	-----Bromomethane	10	U
75-01-4	-----Vinyl Chloride	10	U
75-00-3	-----Chloroethane	10	U
75-09-2	-----Methylene Chloride	10	U
67-64-1	-----Acetone	10	U
75-15-0	-----Carbon Disulfide	10	U
75-35-4	-----1,1-Dichloroethene	10	U
75-34-3	-----1,1-Dichloroethane	10	U
540-59-0	-----1,2-Dichloroethene (total)	10	U
67-66-3	-----Chloroform	10	U
107-06-2	-----1,2-Dichloroethane	10	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	10	U
56-23-5	-----Carbon Tetrachloride	10	U
75-27-4	-----Bromodichloromethane	10	U
78-87-5	-----1,2-Dichloropropane	10	U
10061-01-5	-----cis-1,3-Dichloropropene	10	U
79-01-6	-----Trichloroethene	91	U
124-48-1	-----Dibromochloromethane	10	U
79-00-5	-----1,1,2-Trichloroethane	10	U
71-43-2	-----Benzene	10	U
10061-02-6	-----trans-1,3-Dichloropropene	10	U
75-25-2	-----Bromoform	10	U
108-10-1	-----4-Methyl-2-Pentanone	10	U
591-78-6	-----2-Hexanone	10	U
127-18-4	-----Tetrachloroethene	10	U
79-34-5	-----1,1,2,2-Tetrachloroethane	10	U
108-88-3	-----Toluene	10	U
108-90-7	-----Chlorobenzene	10	U
100-41-4	-----Ethylbenzene	10	U
100-42-5	-----Styrene	10	U
1330-20-7	-----Xylene (Total)	10	U

000052



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EANW4

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4325.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW5  
MW-7

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4327.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	4	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

000059

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW5

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4327.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE

EANW6

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.08

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4320.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	0
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPCUNDS

EPA SAMPLE NO.

EANW6

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.08

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4320.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/21/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPCUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EANW7

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.09

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4333.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

000072

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW7

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.09

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4333.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW8

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.10

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4331.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (Total)	10	U

10

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1-31-9



1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPCUNDS

EPA SAMPLE NO.

EANW8

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.10

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: D4331.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 12/22/95

GC Column: DB-624 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

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

Number TICs found: 0

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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2C  
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #
01	SBLKEA	63	59	78	57	54	59	56	49
02	EANW2	68	64	76	56	55	67	56	48
03	EANW1	63	57	73	53	50	63	52	49
04	EANW4	64	53	74	56	53	65	54	47
05	EANW3	68	53	80	51	57	70	59	49
06	EANW5	62	59	95	56	52	69	55	49
07	EANW5MS	63	61	80	49	52	69	49	53
08	EANW5MSD	67	62	71	53	56	69	53	59
09	EANW6	67	58	66	72	64	67	64	46
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QC LIMITS

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

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

3C  
WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix Spike - EPA Sample No.: EANW5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
Phenol	75	0	36	48	12-110
2-Chlorophenol	75	0	37	49	27-123
1,4-Dichlorobenzene	50	0	26	52	36- 97
N-Nitroso-di-n-prop. (1)	50	0	27	54	41-116
1,2,4-Trichlorobenzene	50	0	26	52	39- 98
4-Chloro-3-Methylphenol	75	0	39	52	23- 97
Acenaphthene	50	0	30	60	46-118
4-Nitrophenol	75	0	43	57	10- 80
2,4-Dinitrotoluene	50	0	34	68	24- 96
Pentachlorophenol	75	0	41	55	9-103
Pyrene	50	0	38	76	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	75	39	52	8	42	12-110
2-Chlorophenol	75	40	53	8	40	27-123
1,4-Dichlorobenzene	50	28	56	7	28	36- 97
N-Nitroso-di-n-prop. (1)	50	31	62	14	38	41-116
1,2,4-Trichlorobenzene	50	28	56	7	28	39- 98
4-Chloro-3-Methylphenol	75	42	56	7	42	23- 97
Acenaphthene	50	30	60	0	31	46-118
4-Nitrophenol	75	56	75	27	50	10- 80
2,4-Dinitrotoluene	50	40	80	16	38	24- 96
Pentachlorophenol	75	49	65	17	50	9-103
Pyrene	50	37	74	3	31	26-127

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

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

\* Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS:

4B  
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

SBLKEA

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Lab File ID: EE5012.D

Lab Sample ID: 122295-01

Instrument ID: E

Date Extracted: 12/22/95

Matrix: (soil/water) WATER

Date Analyzed: 12/29/95

Level: (low/med) LOW

Time Analyzed: 1335

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	EANW2	14572.01	EE5014.D	12/29/95
02	EANW1	14572.02	EE5015.D	12/29/95
03	EANW4	14572.03	EE5016.D	12/29/95
04	EANW3	14572.04	EE5017.D	12/29/95
05	EANW5	14572.05	EE5018.D	12/29/95
06	EANW5MS	14572.06	EE5019.D	12/29/95
07	EANW5MSD	14572.07	EE5020.D	12/29/95
08	EANW6	14572.08	EE5023.D	01/02/96
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COMMENTS:

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKEA

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5012.D

Level: (low/med) LOW

Date Received: / /

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

CAS NO.

COMPOUND

Q

108-95-2-----	Phenol	10	U
111-44-4-----	bis(-2-Chloroethyl) Ether	10	U
95-57-8-----	2-Chlorophenol	10	U
541-73-1-----	1,3-Dichlorobenzene	10	U
106-46-7-----	1,4-Dichlorobenzene	10	U
95-50-1-----	1,2-Dichlorobenzene	10	U
95-48-7-----	2-Methylphenol	10	U
108-60-1-----	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5-----	4-Methylphenol	10	U
621-64-7-----	N-Nitroso-di-n-propylamine	10	U
67-72-1-----	Hexachloroethane	10	U
98-95-3-----	Nitrobenzene	10	U
78-59-1-----	Isophorone	10	U
88-75-5-----	2-Nitrophenol	10	U
105-67-9-----	2,4-Dimethylphenol	10	U
120-83-2-----	2,4-Dichlorophenol	10	U
120-82-1-----	1,2,4-Trichlorobenzene	10	U
91-20-3-----	Naphthalene	10	U
106-47-8-----	4-Chloroaniline	10	U
87-68-3-----	Hexachlorobutadiene	10	U
111-91-1-----	bis(-2-Chloroethoxy)methane	10	U
59-50-7-----	4-Chloro-3-Methylphenol	10	U
91-57-6-----	2-Methylnaphthalene	10	U
77-47-4-----	Hexachlorocyclopentadiene	10	U
88-06-2-----	2,4,6-Trichlorophenol	10	U
95-95-4-----	2,4,5-Trichlorophenol	25	U
91-58-7-----	2-Chloronaphthalene	10	U
88-74-4-----	2-Nitroaniline	25	U
131-11-3-----	Dimethylphthalate	10	U
208-96-8-----	Acenaphthylene	10	U
606-20-2-----	2,6-Dinitrotoluene	10	U
99-09-2-----	3-Nitroaniline	25	U
83-32-9-----	Acenaphthene	10	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLKEA

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5012.D

Level: (low/med) LOW

Date Received: / /

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

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

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLKEA

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 1000

(g/mL) ML

Lab File ID: EE5012.D

Level: (low/med) LOW

Date Received: / /

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 7.0

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

Number TICs found: 10

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.143	22	NJ
2.	Unknown	5.657	8	J
3.	Unknown	5.818	3	J
4.	Unknown	5.887	2	J
5.	Unknown	6.037	20	J
6.	Unknown	6.075	4	J
7.	Unknown	6.214	8	J
8.	Unknown	6.337	14	J
9. 1678-82-6	Cyclohexane, 1-methyl-4-(1-m	6.391	13	J
10.	Unknown	6.434	2	J
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000399

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW1

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5015.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

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



1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW1
-------

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5015.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	10	U
117-84-0-----	Di-n-octylphthalate	6	J
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EANW1

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5015.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.149	22	NJ
2.	Unknown	5.658	6	J
3.	Unknown	5.814	2	J
4.	Unknown	6.039	15	J
5.	Unknown	6.071	4	J
6.	Unknown	6.216	7	J
7.	Unknown	6.334	11	J
8.	Unknown	6.431	3	J
9.	Unknown	15.396	4	
10.	Unknown	17.173	3	
11. 55191-59-8	Ethanol, 2-(4-phenoxyphenoxy	17.378	5	N
12. 3648-21-3	1,2-Benzenedicarboxylic acid	17.502	6	N
13.	Unknown	17.873	3	
14.	Unknown	18.137	3	
15. 84-69-5	1,2-Benzenedicarboxylic acid	18.208	2	N
16. 1330-96-7	1,2-Benzenedicarboxylic acid	19.376	4	N
17.	Unknown	20.012	12	
18. 89-18-9	1,2-Benzenedicarboxylic acid	21.832	6	N
19.	Unknown	26.139	10	
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21.				
22.				
23.				AL
24.				
25.				
26.				1-31-97
27.				
28.				
29.				
30.				

000177

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW2

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5014.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW2

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5014.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

(1) - Cannot be separated from Diphenylamine

000204

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW2

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5014.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.144	22	NJB
2.	Unknown	5.653	6	JB
3.	Unknown	5.814	2	JB
4.	Unknown	5.883	3	JB
5.	Unknown	6.033	16	JB
6. 13151-05-8	1-Heptene, 4-methyl-	6.200	7	NJ
7.	Unknown	6.334	11	JB
8.	Unknown	6.430	2	JB
9.	Unknown	6.731	3	J
10.	Unknown	12.288	9	J
11.	Unknown	15.401	59	J
12. 84-78-6	1,2-Benzenedicarboxylic acid	17.499	4	NJ
3.	Unknown	17.871	93	J
14.	Unknown	18.140	4	J
15. 3648-21-3	1,2-Benzenedicarboxylic acid	19.374	4	NJ
16. 119-07-3	1,2-Benzenedicarboxylic acid	20.010	7	NJ
17.	Unknown	21.309	38	J
18. 1330-96-7	1,2-Benzenedicarboxylic acid	21.820	4	NJ
19.	Unknown	27.915	22	J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000205

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EANW3

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5017.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.6

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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW3

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5017.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

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

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EANW3

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5017.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.6

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

Number TICs found: 15

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.147	10	NJ
2.	Unknown	5.656	8	J
3.	Unknown	5.817	3	J
4.	Unknown	6.037	18	J
5.	Unknown	6.074	5	J
6. 13151-05-8	1-Heptene, 4-methyl-	6.203	9	N
7.	Unknown	6.337	12	J
8.	Unknown	6.434	2	J
9.	Unknown	16.896	4	
10.	Unknown	17.380	6	
11. 3648-21-3	1,2-Benzenedicarboxylic acid	17.503	8	N
12. 603-11-2	1,2-Benzenedicarboxylic acid	18.139	6	N
13. 131-18-0	1,2-Benzenedicarboxylic acid	19.378	5	N
14. 85-69-8	1,2-Benzenedicarboxylic acid	20.019	15	N
15. 119-07-3	1,2-Benzenedicarboxylic acid	21.834		N
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000233



1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW4

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5016.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

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

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EANW4

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5016.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.6

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

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW4

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5016.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.6

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

Number TICs found: 14

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.145	22	NJB
2.	Unknown	5.654	7	JBU
3.	Unknown	5.815	3	JBU
4.	Unknown	5.885	2	JBU
5.	Unknown	6.035	17	JBU
6.	Unknown	6.072	4	JBU
7.	Unknown	6.212	7	JBU
8.	Unknown	6.335	11	JBU
9.	Unknown	6.432	2	JBU
10.	Unknown	17.376	2	J
11. 3648-21-3	1,2-Benzenedicarboxylic acid	17.500	4	NJ
12. 89-18-9	1,2-Benzenedicarboxylic acid	18.141	2	NJ
13.	Unknown	19.380	2	J
14. 84-61-7	1,2-Benzenedicarboxylic acid	20.016	7	NJ
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000258

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW5

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

CAS No.:

SDC No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5018.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.8

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

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

FORM I SV-1

OLMO

000283

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW5
-------

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5018.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.8

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

CAS NO.

COMPOUND

Q

51-28-5-----	2,4-Dinitrophenol	25	U
100-02-7-----	4-Nitrophenol	25	U
132-64-9-----	Dibenzofuran	10	U
121-14-2-----	2,4-Dinitrotoluene	10	U
84-66-2-----	Diethylphthalate	10	U
7005-72-3-----	4-Chlorophenyl-phenylether	10	U
86-73-7-----	Fluorene	10	U
100-01-6-----	4-Nitroaniline	25	U
534-52-1-----	4,6-Dinitro-2-methylphenol	25	U
86-30-6-----	N-nitrosodiphenylamine (1)	10	U
101-55-3-----	4-Bromophenyl-phenylether	10	U
118-74-1-----	Hexachlorobenzene	10	U
87-86-5-----	Pentachlorophenol	25	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
86-74-8-----	Carbazole	10	U
84-74-2-----	Di-n-butylphthalate	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
85-68-7-----	Butylbenzylphthalate	10	U
91-94-1-----	3,3'-Dichlorobenzidine	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
117-81-7-----	bis(2-Ethylhexyl)phthalate	26	
117-84-0-----	Di-n-octylphthalate	4	J
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenzo(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EANW5

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.05

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5018.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/29/95

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.8

Number TICs found: 14

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.141	21	NJ
2.	Unknown	5.655	6	J
3.	Unknown	5.816	3	J
4.	Unknown	6.035	15	J
5.	Unknown	6.073	4	J
6.	Unknown	6.212	7	J
7.	Unknown	6.336	12	J
8.	Unknown	6.432	2	J
9.	Unknown	17.173	2	
10.	Unknown	17.383	3	
11. 1330-96-7	1,2-Benzenedicarboxylic acid	18.142	2	N
12. 28553-12-0	1,2-Benzenedicarboxylic acid	19.380	2	N
13.	Unknown	20.015	8	
14. 119-07-3	1,2-Benzenedicarboxylic acid	21.835		
15.				
16.				
17.				
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000285

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW6

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.08

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5023.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 01/02/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

CAS NO.	COMPOUND	UG/L	Q
108-95-2	Phenol	0.6	J
111-44-4	bis(-2-Chloroethyl) Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
111-91-1	bis(-2-Chloroethoxy)methane	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW6

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.08

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5023.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (UL)

Date Analyzed: 01/02/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N                      pH: 6.5

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

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

000308 OLMC



1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EANW6

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.08

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: EE5023.D

Level: (low/med) LOW

Date Received: 12/21/95

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Extracted: 12/22/95

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 01/02/96

Injection Volume: 2.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

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

Number TICs found: 19

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 123-42-2	2-Pentanone, 4-hydroxy-4-met	5.163	19	NJB
2.	Unknown	5.672	6	JBJ
3.	Unknown	6.057	13	JBJ
4.	Unknown	6.089	3	JBJ
5.	Unknown	6.223	6	JBJ
6.	Unknown	6.352	10	JBJ
7.	Unknown	6.448	3	JBJ
8.	Unknown	15.420	17	J
9.	Unknown	16.536	4	J
10. 1330-96-7	1,2-Benzenedicarboxylic acid	17.192	3	NJ
11.	Unknown	17.402	4	J
12.	Unknown	17.899	18	J
13. 28553-12-0	1,2-Benzenedicarboxylic acid	18.168	7	NJ
14. 3648-21-3	1,2-Benzenedicarboxylic acid	18.233	3	NJ
15.	Unknown	19.419	6	J
16. 25724-58-7	1,2-Benzenedicarboxylic acid	20.060	11	NJ
17.	Unknown	21.365	7	J
18. 119-07-3	1,2-Benzenedicarboxylic acid	21.893	6	NJ
19.	Unknown	23.234	2	J
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

000309

2E  
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

GC Column(1): DB-1701

ID: 0.32(mm)

GC Column(2): DB-17

ID: 0.32(mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK5W	112	90	62	62			0
02	EANW2	113	87	69	70			0
03	EANW1	92	73	63	63			0
04	EANW4	99	79	71	72			0
05	EANW3	110	84	66	67			0
06	EANW5	102	81	73	74			0
07	EANW5MS	106	80	67	68			0
08	EANW5MSD	98	77	51	52			0
09	EANW6	108	81	67	68			0
10								
11								
12								
13								
14								
15								
16								
17								
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25								
26								
27								
28								
29								
30								

QC LIMITS

TCX = Tetrachloro-m-xylene (30-150)  
 DCB = Decachlorobiphenyl (30-150)

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

## WATER PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix Spike, - EPA Sample NO.: EANW5

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
gamma-BHC(Lindane)	0.500	0	0.449	90	56-123
Heptachlor	0.500	0	0.413	82	40-131
Aldrin	0.500	0	0.459	92	40-120
Dieldrin	1.00	0	0.970	97	52-126
Endrin	1.00	0	0.914	91	56-121
4,4'-DDT	1.00	0	0.868	87	38-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
gamma-BHC(Lindane)	0.500	0.458	92	2	15	56-123
Heptachlor	0.500	0.411	82	0	20	40-131
Aldrin	0.500	0.444	89	3	22	40-120
Dieldrin	1.00	0.997	100	3	18	52-126
Endrin	1.00	0.932	93	2	21	56-121
4,4'-DDT	1.00	0.854	85	2	27	38-127

# Column to be used to flag recovery values

\* Values outside of QC limits

RPD: 0 out of 6 outside limits

Spike Recovery: 0 out of 12 outside limits

Comments:

000432

4C  
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK5W

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Lab Sample ID: 122295-01

Lab File ID: 5\_2032

Matrix: (soil/water) WATER

Extraction: (SepF/Cont/Sonc) SEPF

Sulfur Cleanup: (Y/N) N

Date Extracted: 12/22/95

Date Analyzed (1): 12/27/95

Date Analyzed (2): 12/27/95

Time Analyzed (1): 1651

Time Analyzed (2): 1651

Instrument ID (1): HP\_05A

Instrument ID (2): HP\_05B

GC Column (1): DB-1701

ID: 0.32(mm)

GC Column (2): DB-17

ID: 0.32(mm)

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

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	=====	=====	=====	=====
01	EANW2	14572.01	12/27/95	12/27/95
02	EANW1	14572.02	12/27/95	12/27/95
03	EANW4	14572.03	12/27/95	12/27/95
04	EANW3	14572.04	12/27/95	12/27/95
05	EANW5	14572.05	12/27/95	12/27/95
06	EANW5MS	14572.06	12/27/95	12/27/95
07	EANW5MSD	14572.07	12/27/95	12/27/95
08	EANW6	14572.08	12/27/95	12/27/95
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Comments: \_\_\_\_\_

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK5W

Lab Name: ATAS, INC.

Contract: 68-D5-0018

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 122295-01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: \_\_\_\_\_

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

CPC Cleanup: (Y/N) N pH: 7.0

Sulfur Cleanup: (Y/N) N

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

CAS NO.

COMPOUND

Q

319-84-6-----	alpha-BHC	0.050	U
319-85-7-----	beta-BHC	0.050	U
319-86-8-----	delta-BHC	0.050	U
58-89-9-----	gamma-BHC (Lindane)	0.050	U
76-44-8-----	Heptachlor	0.0039	PJ
309-00-2-----	Aldrin	0.050	U
1024-57-3-----	Heptachlor epoxide	0.050	U
959-98-8-----	Endosulfan I	0.050	U
60-57-1-----	Dieldrin	0.10	U
72-55-9-----	4,4'-DDE	0.10	U
72-20-8-----	Endrin	0.10	U
33213-65-9-----	Endosulfan II	0.10	U
72-54-8-----	4,4'-DDD	0.10	U
1031-07-8-----	Endosulfan sulfate	0.10	U
50-29-3-----	4,4'-DDT	0.10	U
72-43-5-----	Methoxychlor	0.50	U
53494-70-5-----	Endrin ketone	0.10	U
7421-93-4-----	Endrin aldehyde	0.10	U
5103-71-9-----	alpha-Chlordane	0.050	U
5103-74-2-----	gamma-Chlordane	0.050	U
8001-35-2-----	Toxaphene	5.0	U
12674-11-2-----	Aroclor-1016	1.0	U
11104-28-2-----	Aroclor-1221	2.0	U
11141-16-5-----	Aroclor-1232	1.0	U
53469-21-9-----	Aroclor-1242	1.0	U
12672-29-6-----	Aroclor-1248	1.0	U
11097-69-1-----	Aroclor-1254	1.0	U
11096-82-5-----	Aroclor-1260	1.0	U

000855

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

Lab Name: ATAS, INC.

Contract: 68-D5-0018

EANW1  
MW 4I

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.02

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: 12/21/95

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5

Sulfur Cleanup: (Y/N) N

CAS NO.                      COMPOUND                      CONCENTRATION UNITS:  
(ug/L or ug/Kg) UG/L

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	J
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	0.35	JP
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000435

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ATAS, INC.

Contract: 63-D5-0018

EANW2  
MW-4D

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.01

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: 12/21/95

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N

pH: 6.5

Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	<del>0.050</del>	PJBU
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0065	PJ
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000468

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ATAS, INC.

Contract: 68-D5-0018

EANW3  
*MW-6*

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.04

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: 12/21/95

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	0.32	JP
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000484



1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ATAS, INC.

Contract: 68-D5-0018

EANW4  
*m w - 6 DF*

Lab Code: ATAS

Case No.: 24331

SAS No.:

SDG No.: EANW1

Matrix: (soil/water) WATER

Lab Sample ID: 14572.03

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_

Date Received: 12/21/95

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GC Cleanup: (Y/N) N pH: 6.6

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	--	---

319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	0.74	J
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	18	

000515

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EANW5

Lab Name: ATAS, INC. Contract: 68-D5-0018  
 Lab Code: ATAS Case No.: 24331 SAS No.: SDG No.: EANW1  
 Matrix: (soil/water) WATER Lab Sample ID: 14572.05  
 Sample wt/vol: 1000 (g/mL) ML Lab File ID: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: 12/21/95  
 Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/22/95  
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/95  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: 6.8 Sulfur Cleanup: (Y/N) N

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

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	0.23	JP
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000541

1D  
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EANW6  
*mw-8D*

Lab Name: ATAS, INC. Contract: 68-D5-0018

Lab Code: ATAS Case No.: 24331 SAS No.: SDG No.: EANW1

Matrix: (soil/water) WATER Lab Sample ID: 14572.08

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

% Moisture: \_\_\_\_\_ decanted: (Y/N) \_\_\_\_\_ Date Received: 12/21/95

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted: 12/22/95

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/27/95

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 6.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
319-86-8	delta-BHC	0.0064	PJ
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	<del>0.050</del> 0.0041	PJBU
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4,4'-DDT	0.0045	PJ
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.0058	PJ
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

000572

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN

Case No: 24331 Site Name Location: Lemon Lane LF

Contractor or EPA Lab: ATAS Data User: EARTHTECH

No. of Samples: 8 Date Sampled or Data Received: 1-23-96

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes \_\_\_\_\_ No \_\_\_\_\_  
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 8 No. of samples received: 8

Received by: M. Zetche Date: 1-23-96

Received by LSSS: \_\_\_\_\_ Date: \_\_\_\_\_

Review started: 1-31-96 Reviewer Signature: Al Venuto

Total time spent on review: 1 1/2 hrs Date review completed: 1-31-96

Copied by: Lynette Burnett <sup>copy 1/21/96</sup> Date: 2-13-96

Mailed to user by: Lynette Burnett Date: 2-13-96

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_