PASSF. 7V1
9/13/85 TDD
HH58, IZ60

ecology and environment, inc.

108 SOUTH WASHINGTON, SUITE 302, SEATTLE, WASHINGTON 98104, TEL. 206-624-9537

International Specialists in the Environmental Sciences

MEMORANDUM

DATE: September 13, 1985

TO: John Osborn, FIT RPO, USEPA, Region X

FROM: Roger McGinnis, Chemist, E&E, Seattle RNM
Andrew Hafferty, Senior Chemist, E&E, Seattle

THRU: Dave Buecker, FIT RPM, E&E, Seattle DJB

SUBJ: QA of Case 4768 (HSL Organics)
Resource Recovery, WA 0280

REF: TDD R10-8507-01

CC: Gerald Muth, EPA, Manchester
Jack Sceva, EPA, Seattle
Harold Takenaka, DPO, EPA, Region IX
Bill Ritthaler, E&E, Seattle

The Quality Assurance review of 12 samples, Case 4768, collected at Resource Recovery Landfill has been completed. The 12 water samples were analyzed at low level by Analytical Technologies, Inc. of National City, California for full HSL organics. The samples were numbered:

JA301	JA554	JA573
JA302	JA568	JA574
JA303	JA571	JA575
JA338	JA572	JA576

Data Qualifications

The following comments refer to the laboratory performance in meeting the Quality Control Specifications outlined in IFB WA84A-266.

I. Volatiles and Semi-Volatile Compounds

1) Timeliness - Acceptable

2) GC/MS Instrument Tuning - Acceptable

3) Initial Calibration - Acceptable

4) Continuing Calibration - Acceptable

5) Instrument Detection Limits - Acceptable

USEPA SF
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6) Blanks

The VOA fraction blanks all contained several contaminants but all were present at levels less than the CRDL.

The semi-volatile fraction blanks contained several contaminants present at levels less than the CRDL. The BNA blank prepared on 8/08/85 contained 84 ug/l of di-n-octylphthalate which is greater than 5 times the CRDL.

7) Surrogate Recoveries

Twelve out of 96 semi-volatiles % Recoveries were out of control.

Sample	Compound	% Recovery	QC Limit
JA568	d_5-nitrobenzene	33%	41-120%
JA571	d_5-nitrobenzene	12%	41-120%
JA573	d_5-phenol	10%	15-96 %
	2-fluoropheol	4%	23-107%
	2,4,6-tribromophenol	7%	20-105%
JA575	d_5-nitrobenzene	27%	41-120%
JA576	d_5-nitrobenzene	3%	41-120%
	2-flurobiphenyl	27%	44-119%
JA301	d_5-nitrobenzene	0%	41-120%
	2-flurobiphenyl	1%	44-119%
JA303RE	2-flurobiphenyl	33%	44-119%
Blank (8/13/85)	2-flurobiphenyl	39%	44-119%

Samples JA568, JA571, JA573, JA575, JA576, and JA301 were not re-extracted as required, due to insufficient sample volume.

8) Matrix Spike and Matrix Spike Duplicates

Two out of 20 VOA % Recoveries were out of control.

Sample	Compound	% Recovery	QC Limit
JA554 MS	1,1-dichloroethene	150%	61-145%
JA554 MSD	1,1-dichloroethene	150%	61-145%

Six out of 48 semi-volatile % Recoveries were out of control.

Sample	Compound	% Recovery	QC Limit
JA572 MSD	1,2,4-Trichlorobenzene	35%	39-98 %
JA572 MS	di-n-butylphthalate	10%	11-117%

Sample	Compound	% Recovery	QC Limit
JA572 MS	2-chlorophenol	138%	27-123%
JA572 MSD	2-chlorophenol	148%	27-123%
JA572 MS	2-chloro-3-methylphenol	141%	23-97 %
JA572 MSD	2-chloro-3-methylphenol	141%	23-97 %

9) Laboratory Contact

The laboratory was contacted on September 19, 1985. See attached telephone log.

10) Samples

The results for the base/neutral fraction of samples JA301 and JA576 were rejected (R) for compounds not detected and were flagged as estimated (J) for compounds which were detected, as required when surrogate % Recoveries are less than 10%.

The results for the acid fraction of sample JA573 were rejected (R) for compounds not detected and were flagged as estimated (J) for compounds which were detected, as required when surrogate % Recoveries were less than 10%.

II. Pesticides/PCBs

1) Timeliness - Acceptable

2) Instrument Performance - Acceptable

3) Calibration

The laboratory reported the linearity standard deviation rather than the % RSD on 8/07/85. The % RSD for Endrin was 13% (QA Limit < 10%).

4) Blanks - Acceptable

5) Surrogate Recoveries

Four dibutylchlorendate surrogate % Recoveries were outside the advisory limits.

6) Matrix Spike and Matrix Spike Duplicates - Acceptable

7) Samples

Results for Endrin were flagged as estimated (J) based on a high % RSD.

Data Use

The usefulness of the data is based on the criteria outlined in the "Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses" (R-582-5-5-01).

The data are ACCEPTABLE for use except where flagged with data qualifiers which modify the use of the individual values.

Data Qualifiers

U - The material was analyzed for, but was not detected. The associated numerical value is estimated sample quantitation limit.

J - The associated numerical value is an estimated quantity because quality control criteria were not met.

R - Quality Control indicates that data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.

Q - No analytical result.

N - Presumptive evidence of presence of material (tentative identification).

RM:jkb

In Reference to Case No(s):
4768

Contract Laboratory Program
REGIONAL/LABORATORY COMMUNICATION SYSTEM

Telephone Record Log

Date of Call: 6 September 85

Laboratory Name: Analytical Technologies Inc

Lab Contact: Mike Hiatt

Region: 10

Regional Contact: Andrew Hafferty

Call Initiated By: _____ Laboratory X Region

In reference to data for the following sample number(s):

Summary of Questions/Issues Discussed:
1. VOA LLDs for CS_2, 11, diCl ethene, & 1122 tetraCl ethane
2. Benzidine LLD varies
3. JA554RE why no PCP hit reported
4. JA575 why no trans 1,2-diCl ethene hit reported

Summary of Resolution:
1530 call by AH to ATI - Mike Hiatt unavailable will call back
19 Sept. contact with Mike Hiatt - missed connections several times previously
1 & 2 normal LLD not close enough to required LLD - lab made aware of the discrepency
#3 PCP hit is real we will edit data and initial
#4 - not a real hit

Signature

19 September 85
Date

Distribution: (1)Lab Copy, (2)Region Copy, (3)SMO Copy

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 301

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA 301
QC Report No:
Sample Matrix: Water
Contract No: 6801 7014
Data Release Authorized By:
Date Sample Received:

Volatile Compounds

Concentration: Low Medium (Circle One)
RMM 9/5/85
Date Extracted/Prepared:
Date Analyzed:
Conc/Dil Factor: pH
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	
67-64-1	Acetone	
75-15-0	Carbon Disulfide	
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	
71-55-6	1, 1, 1-Trichloroethane	
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	
75-27-4	Bromodichloromethane	

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	
75-25-2	Bromoform	
591-78-6	2-Hexanone	
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Not Required

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C. This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

04768

4769

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA301

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/22/85

Date Analyzed: 8/22/85

Conc/Dil Factor: 0.5

RMM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20 UR
108-95-2	Phenol	U
62-53-3	Aniline	UR
111-44-4	bis(2-Chloroethyl)Ether	UR
95-57-8	2-Chlorophenol	U
541-73-1	1,3-Dichlorobenzene	UR
106-46-7	1,4-Dichlorobenzene	UR
100-51-6	Benzyl Alcohol	UR
95-50-1	1,2-Dichlorobenzene	UR
95-48-7	2-Methylphenol	U
39638-32-9	bis(2-Chloroisopropyl)Ether	UR
106-44-5	4-Methylphenol	U
621-64-7	N-Nitroso-Di-n-Propylamine	UR
67-72-1	Hexachloroethane	UR
98-95-3	Nitrobenzene	UR
78-59-1	Isophorone	UR
88-75-5	2-Nitrophenol	U
105-67-9	2,4-Dimethylphenol	U
65-85-0	Benzoic Acid	100 U
111-91-1	bis(2-Chloroethoxy)Methane	20 UR
120-83-2	2,4-Dichlorophenol	U
120-82-1	1,2,4-Trichlorobenzene	UR
91-20-3	Naphthalene	UR
106-47-8	4-Chloroaniline	UR
87-68-3	Hexachlorobutadiene	UR
59-50-7	4-Chloro-3-Methylphenol	U
91-57-6	2-Methylnaphthalene	UR
77-47-4	Hexachlorocyclopentadiene	UR
88-06-2	2,4,6-Trichlorophenol	U
95-95-4	2,4,5-Trichlorophenol	100 U
91-58-7	2-Chloronaphthalene	20 UR
88-74-4	2-Nitroaniline	100 UR
131-11-3	Dimethyl Phthalate	20 UR
208-96-8	Acenaphthylene	UR
99-09-2	3-Nitroaniline	100 UR

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20 UR
51-28-5	2,4-Dinitrophenol	100 U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20 UR
121-14-2	2,4-Dinitrotoluene	20 UR
606-20-2	2,6-Dinitrotoluene	UR
84-66-2	Diethylphthalate	UR
7005-72-3	4-Chlorophenyl-phenylether	UR
86-73-7	Fluorene	UR
100-01-6	4-Nitroaniline	100 UR
534-52-1	4,6-Dinitro-2-Methylphenol	U
86-30-6	N-Nitrosodiphenylamine (1)	20 UR
101-55-3	4-Bromophenyl-phenylether	UR
118-74-1	Hexachlorobenzene	UR
87-86-5	Pentachlorophenol	100 U
85-01-8	Phenanthrene	20 UR
120-12-7	Anthracene	20 UR
84-74-2	Di-n-Butylphthalate	UR
206-44-0	Fluoranthene	UR
92-87-5	Benzidine	180 UR
129-00-0	Pyrene	20 UR
85-68-7	Butylbenzylphthalate	20 UR
91-94-1	3,3'-Dichlorobenzidine	40 UR
56-55-3	Benzo(a)Anthracene	20 UR
117-81-7	bis(2-Ethylhexyl)Phthalate	UR
218-01-9	Chrysene	UR
117-84-0	Di-n-Octyl Phthalate	10 J
205-99-2	Benzo(b)Fluoranthene	20 UR
207-08-9	Benzo(k)Fluoranthene	UR
50-32-8	Benzo(a)Pyrene	UR
193-39-5	Indeno(1,2,3-cd)Pyrene	UR
53-70-3	Dibenz(a,h)Anthracene	UR
191-24-2	Benzo(g,h,i)Perylene	UR

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 301

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 1 AUGUST 85

Date Analyzed: 14 AUGUST 85

Conc/Dil Factor: 1

RNM
9/5/85

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	u5
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.50u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 or W_s _____ V_t 10000 V_i 2

Case 4768

Sample Number
JA301

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	No BNA TIC'S FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
VA-302

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: VA-302
QC Report No:
Sample Matrix: H_2O
Contract No: 68017014
Data Release Authorized By: [illegible]
Date Sample Received: 8/8/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/9/85
Date Analyzed: 8/9/85
Conc/Dil Factor: X1 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

[illegible] 9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	3 UJ
67-64-1	Acetone	8 UJ
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA-302

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

RNM
9/15/85

Not Required

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Case 4768

Sample Number
JA-302

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

RNM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

Case 4768

Sample Number
VA-302

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	Unknown	VOA	397	2 J
2.				
3.				
4.				
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30.				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
VA - 303

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: VA - 303
QC Report No: -
Sample Matrix: H_2O
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 8/8/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/9/85
Date Analyzed: 8/9/85
Conc/Dil Factor: x1 pH -
Percent Moisture: -
Percent Moisture (Decanted): -

RNM 9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	6UJ
67-64-1	Acetone	67UJ
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	95
108-10-1	4-Methyl-2-Pentanone	10U
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	4
108-90-7	Chlorobenzene	5U
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U: Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA 303 RE

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/13/85

Date Analyzed: 8/23/85

Conc/Dil Factor: 0.5

RNM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisooropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	100U
111-91-1	bis(-2-Chloroethoxy)Methane	20U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2, 4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	100U
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	160U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	20 UJ
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 303

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11 AUGUST 85

Date Analyzed: 14 AUGUST 85

Conc/Dil Factor: 1

RNM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	uJ
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.50u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.50u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.50u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 or W_s _____ V_t 10000 V_i 2

Case 4768

Sample Number
JA 303 RE

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 4)

rnm
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	Unknown	BNA	394	8J
2.				
3.	No VOA TIC's Found.			
4.	for JA-303			
5.				
6.				
7.				
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29.				
30				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-338

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA-338
QC Report No: -
Sample Matrix: H_2O
Contract No: 68017014
Data Release Authorized By: GRL
Date Sample Received: 8/5/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/8/85
Date Analyzed: 8/8/85
Conc/Dil Factor: X1 pH -
Percent Moisture: -
Percent Moisture (Decanted): -

RNM 9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	8UJ
67-64-1	Acetone	4UJ
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	↓
156-60-5	Trans-1, 2-Dichloroethene	↓
67-66-3	Chloroform	↓
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	5U
56-23-5	Carbon Tetrachloride	↓
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	↓
124-48-1	Dibromochloromethane	↓
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	5U
108-88-3	Toluene	↓
108-90-7	Chlorobenzene	↓
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g., 10J)

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA-338

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

RNM
9/15/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

NOT REQUIRED

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Case 4768

Sample Number
JA-338

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

RNM
9/5/85

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

NOT REQUIRED

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-338

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85 04768

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	no VOA TIC's found!	VOA	—	—
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
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21.				
22.				
23.				

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 554 RI

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA 554 RI
QC Report No:
Sample Matrix: Water
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 8/6/85

Volatile Compounds

RNM 9/5/85

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8/12/85
Date Analyzed: 8/12/85
Conc/Dil Factor: 0.2 pH (1ml → 5ml)
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		(ug/l or ug/Kg) (Circle One)
74-87-3	Chloromethane	50u
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	15 UJ
67-64-1	Acetone	765
75-15-0	Carbon Disulfide	25u
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	50u
71-55-6	1, 1, 1-Trichloroethane	25u
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	50u
75-27-4	Bromodichloromethane	25u

CAS Number		(ug/l or ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	25u
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	50u
75-25-2	Bromoform	25u
591-78-6	2-Hexanone	50u
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	25u
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

CASE 4100

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 554 RE

Organics Analysis Data Sheet
(Page 2)

04768

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/13/85

Date Analyzed: 8/22/85

Conc/Dil Factor: 0.5

RNM
9/13/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	100U
111-91-1	bis(-2-Chloroethoxy)Methane	20U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2, 4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	118
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	160U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	44UJ
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	10UJ
205-99-2	Benzo(b)Fluoranthene	20U
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA554

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 6 AUGUST 85

Date Analyzed: 8 AUGUST 85

Conc/Dil Factor: 1

RNM 9/5/85

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	u
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 950 or W_s _____ V_t 10000 V_i 2

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA554PE

Organics Analysis Data Sheet
(Page 4)

04768

Tentatively Identified Compounds

RNM
9/5/85

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1.	~~UNKNOWN~~	BNA	~~380~~	~~256JB~~	blank
2.	~~Ketone~~		~~380~~	~~150JB~~	blank
3.	alcohol		431	190J	
4.	~~Ketone~~		~~504~~	~~28J~~	blank
5.	alcohol		518	20J	
6.	~~chlorinated alkene~~		~~532~~	~~48J~~	blank
7.	~~UNKNOWN Alcohol~~		~~635~~	~~36J~~	blank
8.	alkene		663	600J	
9.	hydrocarbon		704	22J	
10.	carboxylic acid		914	12J	
11.			954	94J	
12.	UNKNOWN		~~2078~~	26J	
13.					
14.	NO VOA'S				
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-568

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Analytical Technologies
Case No: 4768
Lab Sample ID No: JA-568
QC Report No: —
Sample Matrix: H_2O
Contract No: 6801-7014
Data Release Authorized By: [illegible]
Date Sample Received: 8-2-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8/3/85
Date Analyzed: 8-3-85
Conc/Dil Factor: x1 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

RNM 9/5/85

CAS Number		(ug/l) or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	↓
156-60-5	Trans-1, 2-Dichloroethene	↓
67-66-3	Chloroform	↓
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	10 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	↓
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l) or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	↓
124-48-1	Dibromochloromethane	↓
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	↓
108-90-7	Chlorobenzene	↓
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA568

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

pnm
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/5/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 0.5

CAS Number		ug/L or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-Chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2,4-Dimethylphenol	↓
65-85-0	Benzoic Acid	100U
111-91-1	bis(2-Chloroethoxy)Methane	20U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2,4,6-Trichlorophenol	↓
95-95-4	2,4,5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	↓
99-09-2	3-Nitroaniline	100U

CAS Number		ug/L or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2,4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	↓
132-64-9	Dibenzofuran	20U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	↓
100-01-6	4-Nitroaniline	100U
534-52-1	4,6-Dinitro-2-Methylphenol	↓
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	↓
87-86-5	Pentachlorophenol	100U
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	↓
92-87-5	Benzidine	160U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	↓
91-94-1	3,3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	8 UJ
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	21 UJ
205-99-2	Benzo(b)Fluoranthene	20U
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	↓

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA568

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: AUGUST 85

Date Analyzed: 8 AUGUST 85

Conc/Dil Factor: 1

prm
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.06u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.11u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	uJ
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.6u
53494-70-5	Endrin Ketone	0.11u
57-74-9	Chlordane	0.6u
8001-35-2	Toxaphene	1.1u
12674-11-2	Aroclor-1016	0.6u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.1u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 900 or W_s _____ V_t 10000 V_i 2

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Case 4768

Sample Number
JA 568

rnm
9/5/85

Organics Analysis Data Sheet
(Page 4)

Tentatively Identified Compounds

	CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1.	—	Unknown Carboxylic Acid	BNA	1563	14 V	
2.	—	~~Unknown~~	~~—~~	~~1676~~	~~10 VB~~	blank
3.	—	~~Unknown~~		~~2029~~	~~8 VB~~	blank
4.	—	Unknown		2036	6 V	
5.	—	~~Unknown Phthalate~~		~~2141~~	~~16 VB~~	blank
6.	—	Unknown Phthalate		2150	6 V	
7.	—	~~Unknown Phthalate~~	↓	~~2189~~	~~30 VB~~	blank
8.						
9.		No VOA TIC's Found				
10.						
11.						
12.						
13.						
14.						
15.						
16.						
17.						
18.						
19.						
20.						
21.						
22.						
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29.						
30.						

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-571

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Atl
Case No: 4768
Lab Sample ID No: JA-571
QC Report No:
Sample Matrix: H_2O
Contract No: 68017014
Data Release Authorized By: [illegible]
Date Sample Received: 8-2-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8/3/85
Date Analyzed: 8-3-85
Conc/Dil Factor: x 1 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

RRM 9/5/85

CAS Number		(ug/l or ug/Kg) (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	↓
156-60-5	Trans-1, 2-Dichloroethene	↓
67-66-3	Chloroform	↓
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	10 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	↓
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		(ug/l or ug/Kg) (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	↓
124-48-1	Dibromochloromethane	↓
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	↓
108-90-7	Chlorobenzene	↓
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA-571

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

RNM
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/5/85

Date Analyzed: 8/8/85

Conc/Dil Factor: 0.5

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1,3-Dichlorobenzene	
106-46-7	1,4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1,2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-Chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2,4-Dimethylphenol	
65-85-0	Benzoic Acid	100U
111-91-1	bis(2-Chloroethoxy)Methane	20U
120-83-2	2,4-Dichlorophenol	
120-82-1	1,2,4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2,4,6-Trichlorophenol	
95-95-4	2,4,5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2,4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20U
121-14-2	2,4-Dinitrotoluene	
606-20-2	2,6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4,6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	100U
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	160U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	
91-94-1	3,3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	40 uJ
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	12 uJ
205-99-2	Benzo(b)Fluoranthene	20U
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1,2,3-cd)Pyrene	
53-70-3	Dibenz(a,h)Anthracene	
191-24-2	Benzo(g,h,i)Perylene	

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA571

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: AUGUST 85

Date Analyzed: 8 AUGUST 85

Conc/Dil Factor: 1

RNM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.06u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.11u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	u J
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.8u
53494-70-5	Endrin Ketone	0.11u
57-74-9	Chlordane	0.6u
8001-35-2	Toxaphene	1.1u
12674-11-2	Aroclor-1016	0.6u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.1u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 900 or W_s _____ V_t 10000 V_i 2

Case 4768

Sample Number
JA-571

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)	
1. —	~~Bleed~~	~~BNA~~	~~989~~	~~6J~~	
2. —	Unknown		1166	18J	
3. —	Unknown		1323	8J	
4. —	~~Unknown~~		~~1676~~	~~6JB~~	blank
5. —	~~Unknown~~		~~2028~~	~~4JB~~	blank
6. —	Unknown		2035	4J	
7. —	~~Unknown~~		~~2139~~	~~8JB~~	blank
8. —	Unknown		~~2161~~	~~72J~~	
9. —	~~Unknown~~		~~2247~~	~~2JB~~	blank
10. —	~~Unknown~~		~~2291~~	~~8JB~~	blank
11.					
12.	No TIC's found in VOA				
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
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26.					
27.					
28.					
29.					
30.					

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA - 572

Organics Analysis Data Sheet
(Page 1)

RNM 9/5/85

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA - 572
QC Report No: —
Sample Matrix: H_2O
Contract No: 68017014
Data Release Authorized By: —
Date Sample Received: 8/8/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/9/85
Date Analyzed: 8/9/85
Conc/Dil Factor: X1 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	24J
67-64-1	Acetone	84J
75-15-0	Carbon Disulfide	5U
75-35-4	1, 1-Dichloroethene	5
75-34-3	1, 1-Dichloroethane	15
156-60-5	Trans-1, 2-Dichloroethene	9
67-66-3	Chloroform	3
107-06-2	1, 2-Dichloroethane	5U
78-93-3	2-Butanone	10U
71-55-6	1, 1, 1-Trichloroethane	70
56-23-5	Carbon Tetrachloride	5U
108-05-4	Vinyl Acetate	10U
75-27-4	Bromodichloromethane	5U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	65
124-48-1	Dibromochloromethane	5U
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	10U
75-25-2	Bromoform	5U
591-78-6	2-Hexanone	10U
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	32
108-88-3	Toluene	5U
108-90-7	Chlorobenzene	↓
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA 572

Environmental Protection Agency. CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

RNM
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/8/85

Date Analyzed: 8/22/85

Conc/Dil Factor: 0.5

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	100U
111-91-1	bis(-2-Chloroethoxy)Methane	20U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2, 4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	100U
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	160U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	6 uJ
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 572

Organics Analysis Data Sheet
(Page 3)

RNM
9/9/85

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 11 AUGUST 85

Date Analyzed: 14 AUGUST 85

Conc/Dil Factor: 1

CAS Number		ug/L or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	u
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 or W_s _____ V_t 10000 V_i 2

04768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-542

Organics Analysis Data Sheet
(Page 4)

RNM
9/15/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. 75-69-4	Methane, trichloro fluoro	VOA	301	3 J
2.				
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30.				

CASE # 4168

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA572

Organics Analysis Data Sheet
(Page 4)

04768

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	~~Unknown~~	BNA	~~381~~	~~8 JB~~ blank
2. —	Methylated Alkene	↓	663	16 J
3. —	Unknown (TIC is saturated)		965	22 J
4. —	Unknown		1812	6 J
5. —	Unknown		2079	8 J
6.				
7.				
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30.				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA573

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: Atl
Case No: 4768
Lab Sample ID No: JA573
QC Report No:
Sample Matrix: Water
Contract No: 6801 7014
Data Release Authorized By:
Date Sample Received: 8/8/85

RNM 9/5/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/12/85
Date Analyzed: 8/12/85
Conc/Dil Factor: 0.1 pH (.5ml → 5ml)
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	100U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	60
67-64-1	Acetone	350
75-15-0	Carbon Disulfide	50U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	64
156-60-5	Trans-1, 2-Dichloroethene	50U
67-66-3	Chloroform	50U
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	100U
71-55-6	1, 1, 1-Trichloroethane	420
56-23-5	Carbon Tetrachloride	50U
108-05-4	Vinyl Acetate	100U
75-27-4	Bromodichloromethane	50U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	50U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	480
124-48-1	Dibromochloromethane	50U
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	100U
75-25-2	Bromoform	50U
591-78-6	2-Hexanone	100U
108-10-1	4-Methyl-2-Pentanone	100U
127-18-4	Tetrachloroethene	50U
108-88-3	Toluene	230
108-90-7	Chlorobenzene	50U
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	63

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (10U).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA573

Organics Analysis Data Sheet
(Page 2)

RNM
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/8/85

Date Analyzed: 8/22/85

Conc/Dil Factor: 0.5

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	70U
108-95-2	Phenol	uR
62-53-3	Aniline	u
111-44-4	bis(-2-Chloroethyl)Ether	u
95-57-8	2-Chlorophenol	uR
541-73-1	1, 3-Dichlorobenzene	u
106-46-7	1, 4-Dichlorobenzene	u
100-51-6	Benzyl Alcohol	u
95-50-1	1, 2-Dichlorobenzene	u
95-48-7	2-Methylphenol	uR
39638-32-9	bis(2-chloroisopropyl)Ether	u
106-44-5	4-Methylphenol	6 J
621-64-7	N-Nitroso-Di-n-Propylamine	10U
67-72-1	Hexachloroethane	u
98-95-3	Nitrobenzene	u
78-59-1	Isophorone	u
88-75-5	2-Nitrophenol	uR
105-67-9	2, 4-Dimethylphenol	uR
65-85-0	Benzoic Acid	100U R
111-91-1	bis(-2-Chloroethoxy)Methane	70U
120-83-2	2, 4-Dichlorophenol	uR
120-82-1	1, 2, 4-Trichlorobenzene	u
91-20-3	Naphthalene	u
106-47-8	4-Chloroaniline	u
87-68-3	Hexachlorobutadiene	u
59-50-7	4-Chloro-3-Methylphenol	uR
91-57-6	2-Methylnaphthalene	u
77-47-4	Hexachlorocyclopentadiene	u
88-06-2	2, 4 6-Trichlorophenol	uR
95-95-4	2, 4, 5-Trichlorophenol	100U R
91-58-7	2-Chloronaphthalene	70U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	70U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	70U
51-28-5	2, 4-Dinitrophenol	100U R
100-02-7	4-Nitrophenol	uR
132-64-9	Dibenzofuran	70U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4, 6-Dinitro-2-Methylphenol	uR
86-30-6	N-Nitrosodiphenylamine (1)	70U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	100U R
85-01-8	Phenanthrene	70U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	160U
129-00-0	Pyrene	70U
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	40U
56-55-3	Benzo(a)Anthracene	70U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 u J
218-01-9	Chrysene	70U
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 573

Organics Analysis Data Sheet
(Page 3)

RNM
9/5/85

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: 11 AUGUST 85

Date Analyzed: 14 AUGUST 85

Conc/Dil Factor: 1

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	uJ
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 or W_s _____ V_t 10000 V_i 2

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA573

Organics Analysis Data Sheet
(Page 4)

RNM 9/5/85

04768

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	~~Unknown~~	BNA	~~380~~	~~16JB~~ blank
2. —	~~Substituted benzene~~		~~390~~	~~300JB~~ blank
3. —	dimethylated benzene		406	696J
4. —	dimethylated benzene		445	364J
5. —	alkylated benzene		499	12J
6. —	~~Alkene~~		~~531~~	~~8JB~~ blank
7. —	substituted benzene		546	26J
8. —	alkylated benzene		559	120J
9. —	trimethylated benzene		569	42J
10. —	methylated Ketone		576	6J
11. —	alkylated benzene		586	40J
12. —	alkylated benzene		606	84J
13. —	alkylated benzene		648	20J
14. —	alkylated benzene		665	6J
15. —	substituted alkene		670	16J
16. —	substituted alkene		879	8J
17. —	Ketone		934	16J
18. —	Unknown	↓	2078	4J
19.				
20.	No VOA TIC's found			
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Environmental Protection Agency. CLP Sample Management Office.
P. O. Box 818. Alexandria, Virginia 22313 703/557-2490

Sample Number
JA-574

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA-574
QC Report No: —
Sample Matrix: H_2O
Contract No: 68017016
Data Release Authorized By:
Date Sample Received: 8-2-85

Volatile Compounds

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 8/3/85
Date Analyzed: 8-3-85
Conc/Dil Factor: x1 pH —
Percent Moisture: —
Percent Moisture (Decanted): —

nm
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10 U
74-83-9	Bromomethane	↓
75-01-4	Vinyl Chloride	↓
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	5 U
67-64-1	Acetone	10 U
75-15-0	Carbon Disulfide	5 U
75-35-4	1, 1-Dichloroethene	↓
75-34-3	1, 1-Dichloroethane	↓
156-60-5	Trans-1, 2-Dichloroethene	↓
67-66-3	Chloroform	↓
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	10 U
71-55-6	1, 1, 1-Trichloroethane	5 U
56-23-5	Carbon Tetrachloride	↓
108-05-4	Vinyl Acetate	10 U
75-27-4	Bromodichloromethane	5 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	5 U
78-87-5	1, 2-Dichloropropane	↓
10061-02-6	Trans-1, 3-Dichloropropene	↓
79-01-6	Trichloroethene	↓
124-48-1	Dibromochloromethane	↓
79-00-5	1, 1, 2-Trichloroethane	↓
71-43-2	Benzene	↓
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	10 U
75-25-2	Bromoform	5 U
591-78-6	2-Hexanone	10 U
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	5 U
108-88-3	Toluene	↓
108-90-7	Chlorobenzene	↓
100-41-4	Ethylbenzene	↓
100-42-5	Styrene	↓
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA-574

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

RNM
9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	
111-91-1	bis(-2-Chloroethoxy)Methane	
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	
91-58-7	2-Chloronaphthalene	
88-74-4	2-Nitroaniline	
131-11-3	Dimethyl Phthalate	
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	
51-28-5	2, 4-Dinitrophenol	
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	
85-01-8	Phenanthrene	
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	
129-00-0	Pyrene	
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	
56-55-3	Benzo(a)Anthracene	
117-81-7	bis(2-Ethylhexyl)Phthalate	
218-01-9	Chrysene	
117-84-0	Di-n-Octyl Phthalate	
205-99-2	Benzo(b)Fluoranthene	
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

Case 4768

Sample Number
JA-574

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: _____

Date Analyzed: _____

Conc/Dil Factor: _____

RNM
9/15/85

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	
72-55-9	4, 4'-DDE	
72-20-8	Endrin	
33213-65-9	Endosulfan II	
72-54-8	4, 4'-DDD	
7421-93-4	Endrin Aldehyde	
1031-07-8	Endosulfan Sulfate	
50-29-3	4, 4'-DDT	
72-43-5	Methoxychlor	
53494-70-5	Endrin Ketone	
57-74-9	Chlordane	
8001-35-2	Toxaphene	
12674-11-2	Aroclor-1016	
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s _____ or W_s _____ V_t _____ V_i _____

Case 4768

Sample Number
JA-574

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. ~~[illegible]~~	~~Furan, tetrahydro~~	VOA	~~342~~	~~4 JB~~ blank
2. —	Unknown	↓	446	1 ✓
3.				
4.				
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30.				

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 575

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Case No: 4768
Lab Sample ID No: JA 575
QC Report No:
Sample Matrix: Water
Contract No: 68017014
Data Release Authorized By:
Date Sample Received: 8/6/85

Volatile Compounds

RNM 9/5/85

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/12/85
Date Analyzed: 8/12/85
Conc/Dil Factor: 0.1 pH (.5ml → 5ml)
Percent Moisture:
Percent Moisture (Decanted):

CAS Number		ug/L or ug/Kg (Circle One)
74-87-3	Chloromethane	100u
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	
75-09-2	Methylene Chloride	40
67-64-1	Acetone	710
75-15-0	Carbon Disulfide	50u
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	
78-93-3	2-Butanone	100u
71-55-6	1, 1, 1-Trichloroethane	50u
56-23-5	Carbon Tetrachloride	
108-05-4	Vinyl Acetate	100u
75-27-4	Bromodichloromethane	50u

CAS Number		ug/L or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	50u
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	
110-75-8	2-Chloroethylvinylether	100u
75-25-2	Bromoform	50u
591-78-6	2-Hexanone	100u
108-10-1	4-Methyl-2-Pentanone	
127-18-4	Tetrachloroethene	50u
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

Case 4768

Sample Number
JA-575

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Organics Analysis Data Sheet
(Page 2)

RNM
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/8/85

Date Analyzed: 8/22/85

Conc/Dil Factor: 0.5

CAS Number		ug/l or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	20U
108-95-2	Phenol	
62-53-3	Aniline	
111-44-4	bis(-2-Chloroethyl)Ether	
95-57-8	2-Chlorophenol	
541-73-1	1, 3-Dichlorobenzene	
106-46-7	1, 4-Dichlorobenzene	
100-51-6	Benzyl Alcohol	
95-50-1	1, 2-Dichlorobenzene	
95-48-7	2-Methylphenol	
39638-32-9	bis(2-chloroisopropyl)Ether	
106-44-5	4-Methylphenol	
621-64-7	N-Nitroso-Di-n-Propylamine	
67-72-1	Hexachloroethane	
98-95-3	Nitrobenzene	
78-59-1	Isophorone	
88-75-5	2-Nitrophenol	
105-67-9	2, 4-Dimethylphenol	
65-85-0	Benzoic Acid	100U
111-91-1	bis(-2-Chloroethoxy)Methane	20U
120-83-2	2, 4-Dichlorophenol	
120-82-1	1, 2, 4-Trichlorobenzene	
91-20-3	Naphthalene	
106-47-8	4-Chloroaniline	
87-68-3	Hexachlorobutadiene	
59-50-7	4-Chloro-3-Methylphenol	
91-57-6	2-Methylnaphthalene	
77-47-4	Hexachlorocyclopentadiene	
88-06-2	2, 4, 6-Trichlorophenol	
95-95-4	2, 4, 5-Trichlorophenol	100U
91-58-7	2-Chloronaphthalene	20U
88-74-4	2-Nitroaniline	100U
131-11-3	Dimethyl Phthalate	20U
208-96-8	Acenaphthylene	
99-09-2	3-Nitroaniline	100U

CAS Number		ug/l or ug/Kg (Circle One)
83-32-9	Acenaphthene	20U
51-28-5	2, 4-Dinitrophenol	100U
100-02-7	4-Nitrophenol	
132-64-9	Dibenzofuran	20U
121-14-2	2, 4-Dinitrotoluene	
606-20-2	2, 6-Dinitrotoluene	
84-66-2	Diethylphthalate	
7005-72-3	4-Chlorophenyl-phenylether	
86-73-7	Fluorene	
100-01-6	4-Nitroaniline	100U
534-52-1	4, 6-Dinitro-2-Methylphenol	
86-30-6	N-Nitrosodiphenylamine (1)	20U
101-55-3	4-Bromophenyl-phenylether	
118-74-1	Hexachlorobenzene	
87-86-5	Pentachlorophenol	100U
85-01-8	Phenanthrene	20U
120-12-7	Anthracene	
84-74-2	Di-n-Butylphthalate	
206-44-0	Fluoranthene	
92-87-5	Benzidine	100U
129-00-0	Pyrene	20U
85-68-7	Butylbenzylphthalate	
91-94-1	3, 3'-Dichlorobenzidine	20U
56-55-3	Benzo(a)Anthracene	20U
117-81-7	bis(2-Ethylhexyl)Phthalate	70 JB
218-01-9	Chrysene	20U
117-84-0	Di-n-Octyl Phthalate	6 JB
205-99-2	Benzo(b)Fluoranthene	20U
207-08-9	Benzo(k)Fluoranthene	
50-32-8	Benzo(a)Pyrene	
193-39-5	Indeno(1, 2, 3-cd)Pyrene	
53-70-3	Dibenz(a, h)Anthracene	
191-24-2	Benzo(g, h, i)Perylene	

(1)-Cannot be separated from diphenylamine

04768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA575

Organics Analysis Data Sheet
(Page 3)

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: AUGUST 85

Date Analyzed: 8 AUGUST 85

Conc/Dil Factor: 1

RNM
9/5/85

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	u5
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 1000 or W_s _____ V_t 10000 V_i 2

Case 4768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA575

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1.	NO VOA TIC'S FOUND			
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
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30.				

Case 4768

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA575

Organics Analysis Data Sheet
(Page 4)

RNM
9/5/85

Tentatively Identified Compounds

CAS Number	Compound Name	Fraction	RT or Scan Number	Estimated Concentration (ug/l or ug/kg)
1. —	Unknown	BNA	663	62 J
2. —	a ketone		960	160 J
3. —	Unknown		1487	12 J
4. —	Unknown		1815	6 J
5. —	Unknown		2079	68 J
6. —	~~Unknown~~	↓	~~2211~~	~~6 J~~ blank
7.				
8.				
9.				
10.				
11.				
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Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 576

Organics Analysis Data Sheet
(Page 1)

Laboratory Name: ATI
Lab Sample ID No: JA 576
Sample Matrix: Water
Data Release Authorized By:

Case No: 4768
QC Report No:
Contract No: 68017014
Date Sample Received: 8/6/85

Volatile Compounds

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 8/12/85
Date Analyzed: 8/12/85
Conc/Dil Factor: .05 pH → (0.25ml → 5ml)
Percent Moisture:
Percent Moisture (Decanted):

RNM 9/5/85

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	200u
74-83-9	Bromomethane	
75-01-4	Vinyl Chloride	
75-00-3	Chloroethane	↓
75-09-2	Methylene Chloride	72
67-64-1	Acetone	10400
75-15-0	Carbon Disulfide	100u
75-35-4	1, 1-Dichloroethene	
75-34-3	1, 1-Dichloroethane	
156-60-5	Trans-1, 2-Dichloroethene	
67-66-3	Chloroform	
107-06-2	1, 2-Dichloroethane	↓
78-93-3	2-Butanone	200u
71-55-6	1, 1, 1-Trichloroethane	100u
56-23-5	Carbon Tetrachloride	↓
108-05-4	Vinyl Acetate	200u
75-27-4	Bromodichloromethane	100u

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1, 1, 2, 2-Tetrachloroethane	100u
78-87-5	1, 2-Dichloropropane	
10061-02-6	Trans-1, 3-Dichloropropene	
79-01-6	Trichloroethene	
124-48-1	Dibromochloromethane	
79-00-5	1, 1, 2-Trichloroethane	
71-43-2	Benzene	
10061-01-5	cis-1, 3-Dichloropropene	↓
110-75-8	2-Chloroethylvinylether	200u
75-25-2	Bromoform	100u
591-78-6	2-Hexanone	200u
108-10-1	4-Methyl-2-Pentanone	↓
127-18-4	Tetrachloroethene	100u
108-88-3	Toluene	
108-90-7	Chlorobenzene	
100-41-4	Ethylbenzene	
100-42-5	Styrene	
	Total Xylenes	↓

Data Reporting Qualifiers

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

Value If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g., 10U) based on necessary concentration/dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read: U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g., 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS. Single component pesticides ≥10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

Other Other specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

CASE 4168

Environmental Protection Agency, CLP Sample Management Office,
P. O. Box 818, Alexandria, Virginia 22313 703/557-2490

Sample Number
JA 576

U4766

Organics Analysis Data Sheet
(Page 2)

RNM
9/5/85

Semivolatile Compounds

Concentration: Low Medium (Circle One)

Date Extracted/Prepared: 8/8/85

Date Analyzed: 8/23/85

Conc/Dil Factor: 0.5 (850 ml → 1L)

CAS Number		~~ug/l or~~ ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	24UR
108-95-2	Phenol	U
62-53-3	Aniline	UR
111-44-4	bis(-2-Chloroethyl)Ether	UR
95-57-8	2-Chlorophenol	U
541-73-1	1, 3-Dichlorobenzene	UR
106-46-7	1, 4-Dichlorobenzene	UR
100-51-6	Benzyl Alcohol	UR
95-50-1	1, 2-Dichlorobenzene	UR
95-48-7	2-Methylphenol	U
39638-32-9	bis(2-chloroisopropyl)Ether	UR
106-44-5	4-Methylphenol	U
621-64-7	N-Nitroso-Di-n-Propylamine	UR
67-72-1	Hexachloroethane	UR
98-95-3	Nitrobenzene	UR
78-59-1	Isophorone	UR
88-75-5	2-Nitrophenol	U
105-67-9	2, 4-Dimethylphenol	U
65-65-0	Benzoic Acid	118U
111-91-1	bis(-2-Chloroethoxy)Methane	24UR
120-83-2	2, 4-Dichlorophenol	U
120-82-1	1, 2, 4-Trichlorobenzene	UR
91-20-3	Naphthalene	UR
106-47-8	4-Chloroaniline	UR
87-68-3	Hexachlorobutadiene	UR
59-50-7	4-Chloro-3-Methylphenol	U
91-57-6	2-Methylnaphthalene	UR
77-47-4	Hexachlorocyclopentadiene	UR
88-06-2	2, 4, 6-Trichlorophenol	U
95-95-4	2, 4, 5-Trichlorophenol	118U
91-58-7	2-Chloronaphthalene	24UR
88-74-4	2-Nitroaniline	118UR
131-11-3	Dimethyl Phthalate	24UR
208-96-8	Acenaphthylene	UR
99-09-2	3-Nitroaniline	118UR

CAS Number		~~ug/l or~~ ug/Kg (Circle One)
83-32-9	Acenaphthene	24UR
51-28-5	2, 4-Dinitrophenol	59U
100-02-7	4-Nitrophenol	U
132-64-9	Dibenzofuran	24UR
121-14-2	2, 4-Dinitrotoluene	UR
606-20-2	2, 6-Dinitrotoluene	UR
84-66-2	Diethylphthalate	UR
7005-72-3	4-Chlorophenyl-phenylether	UR
86-73-7	Fluorene	UR
100-01-6	4-Nitroaniline	118UR
534-52-1	4, 6-Dinitro-2-Methylphenol	U
86-30-6	N-Nitrosodiphenylamine (1)	24UR
101-55-3	4-Bromophenyl-phenylether	UR
118-74-1	Hexachlorobenzene	UR
87-86-5	Pentachlorophenol	118U
85-01-8	Phenanthrene	24UR
120-12-7	Anthracene	UR
84-74-2	Di-n-Butylphthalate	UR
206-44-0	Fluoranthene	UR
92-87-5	Benzidine	188UR
129-00-0	Pyrene	24UR
85-68-7	Butylbenzylphthalate	UR
91-94-1	3, 3'-Dichlorobenzidine	48UR
56-55-3	Benzo(a)Anthracene	24UR
117-81-7	bis(2-Ethylhexyl)Phthalate	18UJ
218-01-9	Chrysene	24UR
117-84-0	Di-n-Octyl Phthalate	UR
205-99-2	Benzo(b)Fluoranthene	UR
207-08-9	Benzo(k)Fluoranthene	UR
50-32-8	Benzo(a)Pyrene	UR
193-39-5	Indeno(1, 2, 3-cd)Pyrene	UR
53-70-3	Dibenz(a, h)Anthracene	UR
191-24-2	Benzo(g, h, i)Perylene	UR

(1)-Cannot be separated from diphenylamine

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Sample Number
JA576

Organics Analysis Data Sheet
(Page 3)

RNM
9/5/85

Pesticide/PCBs

Concentration: (Low) Medium (Circle One)

Date Extracted/Prepared: AUGUST 85

Date Analyzed: 8 AUGUST 85

Conc/Dil Factor: 1

CAS Number		(ug/l or ug/Kg) (Circle One)
319-84-6	Alpha-BHC	0.05u
319-85-7	Beta-BHC	
319-86-8	Delta-BHC	
58-89-9	Gamma-BHC (Lindane)	
76-44-8	Heptachlor	
309-00-2	Aldrin	
1024-57-3	Heptachlor Epoxide	
959-98-8	Endosulfan I	
60-57-1	Dieldrin	0.10u
72-55-9	4, 4'-DDE	u
72-20-8	Endrin	uJ
33213-65-9	Endosulfan II	u
72-54-8	4, 4'-DDD	u
7421-93-4	Endrin Aldehyde	u
1031-07-8	Endosulfan Sulfate	u
50-29-3	4, 4'-DDT	u
72-43-5	Methoxychlor	0.5u
53494-70-5	Endrin Ketone	0.10u
57-74-9	Chlordane	0.5u
8001-35-2	Toxaphene	1.0u
12674-11-2	Aroclor-1016	0.5u
11104-28-2	Aroclor-1221	
11141-16-5	Aroclor-1232	
53469-21-9	Aroclor-1242	
12672-29-6	Aroclor-1248	
11097-69-1	Aroclor-1254	1.0u
11096-82-5	Aroclor-1260	

V_i = Volume of extract injected (ul)

V_s = Volume of water extracted (ml)

W_s = Weight of sample extracted (g)

V_t = Volume of total extract (ul)

V_s 990 or W_s _____ V_t 10000 V_i 2