

ASH-01-003

00535



**GROUNDWATER MONITORING
VALIDATED ANALYTICAL RESULTS FOR THE THIRD QUARTER 1994
ASH LANDFILL, SENECA ARMY DEPOT**

PREPARED FOR:
U.S. Army Corps of Engineers
Huntsville, Alabama

PREPARED BY:
Parsons Engineering Science, Inc.
Boston, Massachusetts

November 1994
D#12

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ENGINEERING-SCIENCE, INC.

Prudential Center • Boston, Massachusetts 02199 • (617) 859-2000 • Fax. (617) 859-2043

November 2, 1994
725980-01003

Mr. Randall Battaglia
ATTN: SDSSE-HE
Seneca Army Depot Activity
Romulus, New York, 14541-5001

SUBJECT: Third Quarter Groundwater Monitoring for 1994
Ash Landfill, Seneca Army Depot Activity, Romulus, New York

Dear Mr. Battaglia:

Enclosed are the analytical results for the third quarter groundwater monitoring for selected monitoring wells at the Ash Landfill at the Seneca Army Depot Activity (SEDA) for 1994. The analytical results are divided into two major groups: volatile organics and QA/QC data (Sections 1, and 2 in the attached document). This is the second quarter of groundwater monitoring that has been performed under the new Scope of Work issued as Annex AC, Delivery Order 0029 to the current Parsons Engineering Science, Inc. (Parsons ES) Contract DACA87-92-D-0022.

This quarter's program incorporates the modifications to the groundwater monitoring program, approved by the New York State Department of Environmental Conservation (NYSDEC) on December 6, 1993. The proposed changes were based on the dimensions of the existing groundwater plume. Under this plan, selected wells were sampled and analyzed for Volatile Organic Compounds (VOC) using NYSDEC Contract Laboratory Procedures (CLP). The off-site farmhouse wells were sampled and analyzed for VOCs following the methods described in EPA's Method 524.2. Several on-site monitoring wells were also analyzed using headspace techniques. NSYDEC CLP and EPA Method 524.2 analyses were performed by Inchcape Laboratories Inc., formerly known as Aquatec Inc., and headspace analyses were performed by Parsons ES personnel at the site.

Chemical analysis data of the groundwater from wells on-site indicate no VOCs were detected in the samples, except that trichloroethane was detected at 15 ug/L in MW-30 using the headspace analysis technique. Groundwater from this well was not analyzed using CLP methods or EPA Method 524.2. Previously, 0.8 ug/l trichloroethene was detected in groundwater from MW-30 using the headspace technique during the second quarter 1994 sampling program.

Chemical analysis of the groundwater from the three farmhouse wells detected styrene at 5 ug/L in FH-S. No other VOC was detected in groundwater from these three wells following data validation. Although styrene was detected in this well, it is not an analyte detected in any monitoring well at the site and it is unlikely that the source is from the Ash Landfill site. The NYSDEC criteria for styrene in Class GA groundwater is 5 ug/L and the federal drinking water Maximum Contaminant Level is 100 ug/L.

Mr. Randall Battaglia
November 2, 1994
Page 2

Sampling for the fourth quarter of the monitoring program is tentatively scheduled for early December. Please call me at (617) 859-2492 if you have any questions.

Sincerely,

PARSONS ENGINEERING SCIENCE, INC.

A handwritten signature in cursive script, appearing to read "Michael Duchesneau".

Michael Duchesneau, P.E.
Project Manager

MD/cmf/D#12

Enclosure

cc: Ms. L. Percifield, MRD-Lab, 1 copy
Mr. R. Suever, USACOE, 2 copies
Mr. J. Biernacki, DESCOM, 1 copy

PARSONS ENGINEERING SCIENCE, INC.

Prudential Center • Boston, Massachusetts 02199-7697 • (617) 859-2000 • Fax: (617) 859-2043

December 28, 1994
725980-01003

Mr. Randall W. Battaglia
SDSSE-HE
Seneca Army Depot Activity
Rte. 96A
Romulus, NY 14541

SUBJECT: Seneca Army Depot Activity, Fourth Quarter 1994 Groundwater Sampling, Interim Report

Dear Mr. Battaglia:

This Interim Report describes the recent field activities conducted in December associated with the Fourth Quarter 1994 Groundwater Sampling at the OB/OD Grounds and Ash Landfill sites. The activities were conducted in full compliance with the requirements of the Parsons Engineering Science, Inc. (Parsons ES) Phase 2 workplan and the U.S. Army Corps of Engineers Statement of Work.

At the Open Burning (OB) and Open Detonation (OD) Grounds, all the groundwater samples were obtained on December 6, 1994. Groundwater sampling at the Ash Landfill occurred on December 8 and 9, 1994.

Four replicate groundwater samples were obtained from MW45-3 and MW45-4 at the OD Grounds and from MW-12, MW-13, MW-14, and MW-27 at the OB Grounds as part of the Fourth Quarterly Sampling Program. Monitoring well MW45-1 and MW45-2 at the OD Grounds could not be sampled because they were dry.

Groundwater sampling at the Ash Landfill proceeded without problems. Sampling of the 15 on-site and farmhouse area wells were completed within the allotted schedule. During groundwater sampling, the well riser pipe at monitoring well PT-11 was observed to be broken approximately 4 to 5 feet down from the top of the riser pipe allowing soil into the well. It is recommended that Seneca Army Depot Activity replace this well because it is downgradient of the non-combustible fill landfill.

Parsons ES analyzed the groundwater from MW-30 using headspace analysis and detected trichloroethene at three parts per billion (ppb). As a check of the headspace results, a groundwater sample from this well was sent for laboratory analysis by Method 524.2. Trichloroethene has historically been detected at MW-30 between approximately 5 to 15 ppb.

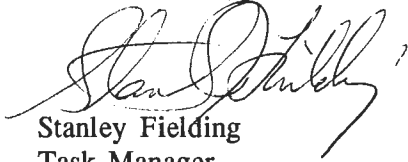
Mr. Randall W. Battaglia
December 28, 1994
Page 2

The initial review of the data for the Ash Landfill indicates that the plume geometry, along with the overall volatile organic concentrations found within the groundwater, have not significantly changed since the last quarterly reporting period.

If you have any questions or comments, I can be reached at (617) 859-2078.

Very truly yours,

PARSONS ENGINEERING SCIENCE, INC.

A handwritten signature in black ink, appearing to read "Stanley Fielding", written over a printed name and title.

Stanley Fielding
Task Manager

SF/cmf/D#12

SECTION 1.0
Volatile Organic Compounds

- 1.1 Summary of Validated and Headspace Volatile Analysis Results**
- 1.2 Validated Volatile Analysis Results
(TCL and 524.2)**

1.1 Summary of Validated and Headspace Volatile Analysis Results

ASH LANDFILL THIRD QUARTER 1994 MONITORING
SUMMARY OF VALIDATED VOLATILE ANALYSIS RESULTS (TCL AND 524.2)

COMPOUND										
ING	1,2-DCE (ug/l)	1,1-DCE (ug/l)	TCE (ug/l)	Vinyl Chloride (ug/l)	Chloroform (ug/l)	1,2-DCA (ug/l)	Methylene Chloride (ug/l)	Styrene (ug/l)	Benzene (ug/l)	TOT
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	
	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5	0.5 U	
	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	
	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	

1,2-DCE = 1,2-Dichloroethene (total)

TCE = Trichloroethene

1,2-DCA = 1,2-Dichloroethane

1,1-DCE = 1,1-Dichloroethene

U = Not detected above the concentration shown

ND = Not Detected

ug/l = micrograms per liter

ASH LANDFILL THIRD QUARTER 1994 MONITORING
SUMMARY OF GROUNDWATER HEADSPACE VOLATILE ANALYSIS RESULTS

MONITORING WELL	COMPOUND						TOTAL VOCs ug/l
	Vinyl chloride ug/l	1,1-DCE ug/l	Trans-1,2-DCE ug/l	TCE ug/l	TOTAL VOCs ug/l		
PT-11	5U	5U	5U	1U	ND	ND	
PT-19	5U	5U	5U	1U	ND	ND	
PT-27	5U	5U	5U	1U	ND	ND	
MW-30	5U	5U	5U	15	15	15	
MW-45	5U	5U	5U	1U	ND	ND	
MW-48	5U	5U	5U	1U	ND	ND	
MW-59	5U	5U	5U	1U	ND	ND	
MW-60	5U	5U	5U	1U	ND	ND	

NOTES:

Analysis performed on PHOTOVAC 10S50 GC

1,1-DCE = 1,1-Dichloroethene

Trans-1,2-DCE = Trans-1,2-dichloroethene

TCE = Trichloroethene

U = Not detected above concentration shown

ND = Not detected

ug/l = microgram per liter

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**1.2 Validated Volatile Analysis Results
(TCL and 524.2)**

Section 2.0
QA/QC Data

- 2.1 Surrogate Spike Recoveries**
- 2.2 Matrix Spike/Matrix Spike Duplicates**
- 2.3 Method Blanks**

2.1 Surrogate Spike Recoveries

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AQUATEC, INC.

Contract: 93206

Lab Code: AQUAI

Case No.: Ash

SAS No.:

SDG No.: 46558

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKC5	98	96	93		0
02	MW36	100	97	95		0
03	MW36MS	99	96	94		0
04	MW36MSD	101	96	94		0
05	MW40	100	97	93		0
06	MW47	102	97	94		0
07	MW56	101	97	95		0
08	MW56R	99	97	94		0
09	MW61	100	97	95		0
10						
11						
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29						
30						

QC LIMITS

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

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2A
 WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
	=====	=====	=====	=====	=====	=====
01	BRNS	100	117	98	0	0
02	BRNSR	91	114	96	0	0
03	FHD	92	101	97	0	0
04	FHS	117	120	111	0	0
05	LFB-INV-B	93	115	90	0	0
06	LFB-INW-B	103	106	95	0	0
07	LFB-KYU-A	104	108	99	0	0
08	MW62	103	115	98	0	0
09	TB98	92	96	89	0	0
10	VBLKJ4	91	101	88	0	0
11	VBLKK1	104	112	100	0	0
12	VBLKK4	100	105	99	0	0

QC LIMITS

SMC1 (TOL) = Toluene-d8 (80-120)

SMC2 (BFB) = Bromofluorobenzene (80-120)

SMC3 (DCE) = ~~1,2-Dichloroethane-d4~~ (80-120)

1,2-Dichlorobenzene-d4

LTA 10/12/94

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

524.2
Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/15/94
Client No.:	LFB-INV-B	QC limits:	60-140%
Filename:	INV002BQV		

Compound Name	Amount	Spike Added	Percent Recovery #
dichlorodifluoromethane.....	0.99	1	99
chloromethane.....	1.35	1	135
vinyl chloride.....	1.05	1	105
bromomethane.....	1.06	1	106
chloroethane.....	1.05	1	105
trichlorofluoromethane.....	0.82	1	82
1,1-dichloroethene.....	0.98	1	98
acetone.....	8.30	5	166 *
carbon disulfide.....	0.95	1	95
methylene chloride.....	1.08	1	108
trans-1,2-dichloroethene.....	0.98	1	98
1,1-dichloroethane.....	0.92	1	92
2,2-dichloropropane.....	0.84	1	84
cis-1,2-dichloroethene.....	0.96	1	96
2-butanone.....	8.08	5	162 *
bromochloromethane.....	0.88	1	88
chloroform.....	0.98	1	98
1,1,1-trichloroethane.....	0.95	1	95
carbon tetrachloride.....	0.60	1	60
1,1-dichloropropene.....	1.20	1	120
benzene.....	0.91	1	91
1,2-dichloroethane.....	0.83	1	83
trichloroethene.....	0.94	1	94
1,2-dichloropropane.....	0.91	1	91
dibromomethane.....	0.86	1	86
bromodichloromethane.....	0.75	1	75
cis-1,3-dichloropropene.....	0.72	1	72
4-methyl-2-pentanone.....	4.44	5	89
toluene.....	0.89	1	89
trans-1,3-dichloropropene.....	0.67	1	67
1,1,2-trichloroethane.....	1.02	1	102
tetrachloroethene.....	0.92	1	92
1,3-dichloropropane.....	0.93	1	93
2-hexanone.....	5.69	5	114
dibromochloromethane.....	0.80	1	80
1,2-dibromoethane.....	1.01	1	101
chlorobenzene.....	1.00	1	100

524.2
Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/15/94
Client No.:	LFB-INV-B	QC limits:	60-140%
Filename:	INV002BQV		

Compound Name	Amount	Spike Added	Percent Recovery #
1,1,1,2-tetrachloroethane.....	0.84	1	84
ethylbenzene.....	1.05	1	105
m & p-xylene.....	1.95	2	98
o-xylene.....	0.99	1	99
styrene.....	0.96	1	96
bromoform.....	0.74	1	74
isopropylbenzene.....	1.09	1	109
bromobenzene.....	0.87	1	87
1,1,2,2-tetrachloroethane.....	0.93	1	93
1,2,3-trichloropropane.....	0.53	1	53 *
n-propylbenzene.....	0.96	1	96
2-chlorotoluene.....	0.91	1	91
4-chlorotoluene.....	0.94	1	94
1,3,5-trimethylbenzene.....	0.94	1	94
tert-butylbenzene.....	0.89	1	89
1,2,4-trimethylbenzene.....	0.96	1	96
sec-butylbenzene.....	0.92	1	92
1,3-dichlorobenzene.....	0.85	1	85
1,4-dichlorobenzene.....	1.10	1	110
p-isopropyltoluene.....	0.87	1	87
1,2-dichlorobenzene.....	0.90	1	90
n-butylbenzene.....	0.89	1	89
1,2-dibromo-3-chloropropane.....	0.86	1	86
1,2,4-trichlorobenzene.....	0.82	1	82
hexachlorobutadiene.....	0.75	1	75
naphthalene.....	1.02	1	102
1,2,3-trichlorobenzene.....	0.92	1	92
xylene (total).....	3.31	3	110

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

Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/20/94
Client No.:	LFB-INW-B	QC limits:	60-140%
Filename:	INW003BQV		

Compound Name	Amount	Spike Added	Percent Recovery #
dichlorodifluoromethane.....	0.93	1	93
chloromethane.....	1.17	1	117
vinyl chloride.....	0.93	1	93
bromomethane.....	1.01	1	101
chloroethane.....	0.96	1	96
trichlorofluoromethane.....	0.85	1	85
1,1-dichloroethene.....	0.96	1	96
acetone.....	5.90	5	118
carbon disulfide.....	1.07	1	107
methylene chloride.....	1.02	1	102
trans-1,2-dichloroethene.....	0.95	1	95
1,1-dichloroethane.....	0.90	1	90
2,2-dichloropropane.....	0.88	1	88
cis-1,2-dichloroethene.....	1.01	1	101
2-butanone.....	6.42	5	128
bromochloromethane.....	0.96	1	96
chloroform.....	0.96	1	96
1,1,1-trichloroethane.....	0.95	1	95
carbon tetrachloride.....	0.64	1	64
1,1-dichloropropene.....	0.84	1	84
benzene.....	0.90	1	90
1,2-dichloroethane.....	0.92	1	92
trichloroethene.....	0.93	1	93
1,2-dichloropropane.....	0.99	1	99
dibromomethane.....	0.90	1	90
bromodichloromethane.....	0.80	1	80
cis-1,3-dichloropropene.....	0.78	1	78
4-methyl-2-pentanone.....	5.09	5	102
toluene.....	0.90	1	90
trans-1,3-dichloropropene.....	0.92	1	92
1,1,2-trichloroethane.....	1.08	1	108
tetrachloroethene.....	0.95	1	95
1,3-dichloropropane.....	0.94	1	94
2-hexanone.....	5.15	5	103
dibromochloromethane.....	0.81	1	81
1,2-dibromoethane.....	0.92	1	92
chlorobenzene.....	1.00	1	100

524.2
Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/20/94
Client No.:	LFB-INW-B	QC limits:	60-140%
Filename:	INW003BQV		

Compound Name	Amount	Spike Added	Percent Recovery #
1,1,1,2-tetrachloroethane.....	0.89	1	89
ethylbenzene.....	0.89	1	89
m & p-xylene.....	1.92	2	96
o-xylene.....	0.86	1	86
styrene.....	0.87	1	87
bromoform.....	0.73	1	73
isopropylbenzene.....	0.96	1	96
bromobenzene.....	0.94	1	94
1,1,2,2-tetrachloroethane.....	1.01	1	101
1,2,3-trichloropropane.....	1.18	1	118
n-propylbenzene.....	1.04	1	104
2-chlorotoluene.....	0.92	1	92
4-chlorotoluene.....	1.03	1	103
1,3,5-trimethylbenzene.....	0.99	1	99
tert-butylbenzene.....	0.95	1	95
1,2,4-trimethylbenzene.....	0.96	1	96
sec-butylbenzene.....	0.96	1	96
1,3-dichlorobenzene.....	0.94	1	94
1,4-dichlorobenzene.....	0.98	1	98
p-isopropyltoluene.....	0.89	1	89
1,2-dichlorobenzene.....	0.95	1	95
n-butylbenzene.....	0.85	1	85
1,2-dibromo-3-chloropropane.....	0.99	1	99
1,2,4-trichlorobenzene.....	0.87	1	87
hexachlorobutadiene.....	1.01	1	101
naphthalene.....	1.08	1	108
1,2,3-trichlorobenzene.....	0.98	1	98
xylene (total).....	3.03	3	101

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

524.2
Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/21/94
Client No.:	LFB-KYU-A	QC limits:	60-140%
Filename:	KYU002AQV		

Compound Name	Amount	Spike Added	Percent Recovery #
dichlorodifluoromethane.....	0.92	1	92
chloromethane.....	1.08	1	108
vinyl chloride.....	1.06	1	106
bromomethane.....	1.09	1	109
chloroethane.....	1.12	1	112
trichlorofluoromethane.....	1.08	1	108
1,1-dichloroethene.....	1.12	1	112
acetone.....	4.69	5	94
carbon disulfide.....	1.19	1	119
methylene chloride.....	1.18	1	118
trans-1,2-dichloroethene.....	1.07	1	107
1,1-dichloroethane.....	1.14	1	114
2,2-dichloropropane.....	1.07	1	107
cis-1,2-dichloroethene.....	0.98	1	98
2-butanone.....	4.53	5	91
bromochloromethane.....	0.96	1	96
chloroform.....	1.01	1	101
1,1,1-trichloroethane.....	1.04	1	104
carbon tetrachloride.....	1.04	1	104
1,1-dichloropropene.....	0.92	1	92
benzene.....	0.91	1	91
1,2-dichloroethane.....	1.02	1	102
trichloroethene.....	0.95	1	95
1,2-dichloropropane.....	0.96	1	96
dibromomethane.....	0.97	1	97
bromodichloromethane.....	0.96	1	96
cis-1,3-dichloropropene.....	0.88	1	88
4-methyl-2-pentanone.....	5.03	5	101
toluene.....	0.95	1	95
trans-1,3-dichloropropene.....	0.98	1	98
1,1,2-trichloroethane.....	0.94	1	94
tetrachloroethene.....	1.04	1	104
1,3-dichloropropane.....	0.87	1	87
2-hexanone.....	4.97	5	99
dibromochloromethane.....	0.95	1	95
1,2-dibromoethane.....	0.92	1	92
chlorobenzene.....	0.91	1	91

524.2
Laboratory Fortified Blank

Lab Name:	Aquatec, Inc.	Contract:	93206
Lab Code:	AQUAI	SDG No.:	46558
CASE No.:	ASH	Date Analyzed:	09/21/94
Client No.:	LFB-KYU-A	QC limits:	60-140%
Filename:	KYU002AQV		

Compound Name	Amount	Spike Added	Percent Recovery #
1,1,1,2-tetrachloroethane.....	0.99	1	99
ethylbenzene.....	0.92	1	92
m & p-xylene.....	1.87	2	94
o-xylene.....	0.91	1	91
styrene.....	0.88	1	88
bromoform.....	0.97	1	97
isopropylbenzene.....	0.99	1	99
bromobenzene.....	1.00	1	100
1,1,2,2-tetrachloroethane.....	0.85	1	85
1,2,3-trichloropropane.....	0.76	1	76
n-propylbenzene.....	0.97	1	97
2-chlorotoluene.....	0.97	1	97
4-chlorotoluene.....	0.97	1	97
1,3,5-trimethylbenzene.....	0.78	1	78
tert-butylbenzene.....	0.95	1	95
1,2,4-trimethylbenzene.....	0.79	1	79
sec-butylbenzene.....	0.97	1	97
1,3-dichlorobenzene.....	1.13	1	113
1,4-dichlorobenzene.....	0.77	1	77
p-isopropyltoluene.....	0.88	1	88
1,2-dichlorobenzene.....	0.98	1	98
n-butylbenzene.....	0.93	1	93
1,2-dibromo-3-chloropropane.....	0.85	1	85
1,2,4-trichlorobenzene.....	0.94	1	94
hexachlorobutadiene.....	1.13	1	113
naphthalene.....	0.78	1	78
1,2,3-trichlorobenzene.....	0.88	1	88
xylene (total).....	2.96	3	99

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

2.2 Matrix Spike/Matrix Spike Duplicates

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AQUATEC, INC.

Contract: 93206

Lab Code: AQUAI

Case No.: Ash

SAS No.:

SDG No.: 46558

Matrix Spike - EPA Sample No.: MW36

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	54	108	61-145
Trichloroethene	50	0	50	100	71-120
Benzene	50	0	50	100	76-127
Toluene	50	0	50	100	76-125
Chlorobenzene	50	0	50	100	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	50	55	110	2	14	61-145
Trichloroethene	50	51	102	2	14	71-120
Benzene	50	51	102	2	11	76-127
Toluene	50	51	102	2	13	76-125
Chlorobenzene	50	50	100	0	13	75-130

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

2.3 Method Blanks

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKC5

Lab Name: AQUATEC, INC.

Contract: 93206

Lab Code: AQUAI

Case No.: Ash

SAS No.:

SDG No.: 46558

Lab File ID: LCCB001DV.D

Lab Sample ID: VBLKC5

Date Analyzed: 09/14/94

Time Analyzed: 1200

GC Column:CAP ID: 0.53 (mm)

Heated Purge: (Y/N) N

Instrument ID: L

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MW36	233823	L233823V.D	1234
02	MW36MS	233823MS	L233823MSV.D	1304
03	MW36MSD	233823MD	L233823MDV.D	1345
04	MW40	233824	L233824V.D	1428
05	MW47	233825	L233825V.D	1511
06	MW56	233826	L233826V.D	1554
07	MW56R	233827	L233827V.D	1650
08	MW61	233828	L233828V.D	1727
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKC5

Lab Name: AQUATEC, INC.

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKC5

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

Lab File ID: LCCB001DV.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. _____

Date Analyzed: 09/14/94

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKC5

Lab Name: AQUATEC, INC.

Contract: 93206

Lab Code: AQUAI

Case No.: Ash

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKC5

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

Lab File ID: LCCB001DV.D

Level: (low/med) LOW

Date Received: / /

% Moisture: not dec. _____

Date Analyzed: 09/14/94

GC Column: CAP ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.				
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.				

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKJ4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Lab File ID: INVB002BV

Lab Sample ID: VBLKJ4

Date Analyzed: 09/15/93

Time Analyzed: 1238

GC Column: CAP ID: 0.530 (mm)

Heated Purge: (Y/N) N

Instrument ID: IN50I

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	BRNS	233819	I233819V	2225
02	BRNSR	233820	I233820V	2242
03	FHD	233821	I233821V	2305
04	LFB-INV-B	LFB-INV-B	INV002BQV	1323

COMMENTS: BLANK SMO#VBLKJ4
GC/MS IN50I

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKK1

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Lab File ID: INWB002BV

Lab Sample ID: VBLKK1

Date Analyzed: 09/20/94

Time Analyzed: 1017

GC Column: CAP ID: 0.530 (mm)

Heated Purge: (Y/N) N

Instrument ID: IN50I

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
	=====	=====	=====	=====
01	LFB-INW-B	LFB-INW-B	INW003BQV	1224
02	MW62	233829	I233829V	1332
03	TB98	233830	I233830V	1315

COMMENTS: BLANK SMO#VBLKK1
GC/MS IN50I

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLLK4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Lab File ID: KYUB002AV

Lab Sample ID: VBLLK4

Date Analyzed: 09/21/94

Time Analyzed: 1450

GC Column: CAP ID: 0.530 (mm)

Heated Purge: (Y/N) N

Instrument ID: IN50K

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	FHS	233822	K233822I2V	1944
02	LFB-KYU-A	LFB-KYU-A	KYU002AQV	1535

COMMENTS: BLANK SMO#VBLLK4
GC/MS IN50K

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKJ4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INVB002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/15/93

C Column: CAP

ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
156-59-4	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKJ4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKJ4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INVB002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/15/93

Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

591-78-6	-----2-Hexanone	5	U
124-48-1	-----Dibromochloromethane	0.5	U
106-93-4	-----1,2-Dibromoethane	0.5	U
108-90-7	-----Chlorobenzene	0.5	U
630-20-6	-----1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	-----Ethylbenzene	0.5	U
108-38-3	-----m- & p-Xylene	0.5	U
95-47-6	-----o-Xylene	0.5	U
100-42-5	-----Styrene	0.5	U
75-25-2	-----Bromoform	0.5	U
98-82-8	-----Isopropylbenzene	0.5	U
108-86-1	-----Bromobenzene	0.5	U
79-34-5	-----1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	-----1,2,3-Trichloropropane	0.5	U
103-65-1	-----n-Propylbenzene	0.5	U
95-49-8	-----2-Chlorotoluene	0.5	U
106-43-4	-----4-Chlorotoluene	0.5	U
108-67-8	-----1,3,5-Trimethylbenzene	0.5	U
98-06-6	-----tert-Butylbenzene	0.5	U
95-63-6	-----1,2,4-Trimethylbenzene	0.5	U
135-98-8	-----sec-Butylbenzene	0.5	U
541-73-1	-----1,3-Dichlorobenzene	0.5	U
106-46-7	-----1,4-Dichlorobenzene	0.5	U
99-87-6	-----p-Isopropyltoluene	0.5	U
95-50-1	-----1,2-Dichlorobenzene	0.5	U
104-51-8	-----n-Butylbenzene	0.5	U
96-12-8	-----1,2-Dibromo-3-Chloropropane	0.5	U
120-82-1	-----1,2,4-Trichlorobenzene	0.5	U
87-68-3	-----Hexachlorobutadiene	0.5	U
91-20-3	-----Naphthalene	0.5	U
87-61-6	-----1,2,3-Trichlorobenzene	0.5	U
1330-20-7	-----Xylene (total)	0.5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKJ4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKJ4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INV002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/15/93

Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	13.57	1	JXN
2.	UNKNOWN SILOXANE DERIVATIVE	15.03	0.6	JX

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK1

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INWB002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/20/94

Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
156-59-4	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK1

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INWB002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/20/94

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m- & p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
108-86-1	Bromobenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
1330-20-7	Xylene (total)	0.5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKK1

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK1

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: INWB002BV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/20/94

Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	13.57	1	JXN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK4

Lab Name: AQUATEC INC

Contract: 93206

I b Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: KYUB002AV

I vel: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/21/94

Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

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

CAS NO.	COMPOUND	UG/L	Q
75-71-8	Dichlorodifluoromethane	0.5	U
74-87-3	Chloromethane	0.5	U
75-01-4	Vinyl Chloride	0.5	U
74-83-9	Bromomethane	0.5	U
75-00-3	Chloroethane	0.5	U
75-69-4	Trichlorofluoromethane	0.5	U
75-35-4	1,1-Dichloroethene	0.5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	0.5	U
75-09-2	Methylene Chloride	0.5	U
156-60-5	trans-1,2-Dichloroethene	0.5	U
75-34-3	1,1-Dichloroethane	0.5	U
590-20-7	2,2-Dichloropropane	0.5	U
156-59-4	cis-1,2-Dichloroethene	0.5	U
78-93-3	2-Butanone	5	U
74-97-5	Bromochloromethane	0.5	U
67-66-3	Chloroform	0.5	U
71-55-6	1,1,1-Trichloroethane	0.5	U
56-23-5	Carbon Tetrachloride	0.5	U
563-58-6	1,1-Dichloropropene	0.5	U
71-43-2	Benzene	0.5	U
107-06-2	1,2-Dichloroethane	0.5	U
79-01-6	Trichloroethene	0.5	U
78-87-5	1,2-Dichloropropane	0.5	U
74-95-3	Dibromomethane	0.5	U
75-27-4	Bromodichloromethane	0.5	U
10061-01-5	cis-1,3-Dichloropropene	0.5	U
108-10-1	4-Methyl-2-Pentanone	5	U
108-88-3	Toluene	0.5	U
10061-02-6	trans-1,3-Dichloropropene	0.5	U
79-00-5	1,1,2-Trichloroethane	0.5	U
127-18-4	Tetrachloroethene	0.5	U
142-28-9	1,3-Dichloropropane	0.5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKK4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: KYUB002AV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/21/94

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
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591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	0.5	U
106-93-4	1,2-Dibromoethane	0.5	U
108-90-7	Chlorobenzene	0.5	U
630-20-6	1,1,1,2-Tetrachloroethane	0.5	U
100-41-4	Ethylbenzene	0.5	U
108-38-3	m- & p-Xylene	0.5	U
95-47-6	o-Xylene	0.5	U
100-42-5	Styrene	0.5	U
75-25-2	Bromoform	0.5	U
98-82-8	Isopropylbenzene	0.5	U
108-86-1	Bromobenzene	0.5	U
79-34-5	1,1,2,2-Tetrachloroethane	0.5	U
96-18-4	1,2,3-Trichloropropane	0.5	U
103-65-1	n-Propylbenzene	0.5	U
95-49-8	2-Chlorotoluene	0.5	U
106-43-4	4-Chlorotoluene	0.5	U
108-67-8	1,3,5-Trimethylbenzene	0.5	U
98-06-6	tert-Butylbenzene	0.5	U
95-63-6	1,2,4-Trimethylbenzene	0.5	U
135-98-8	sec-Butylbenzene	0.5	U
541-73-1	1,3-Dichlorobenzene	0.5	U
106-46-7	1,4-Dichlorobenzene	0.5	U
99-87-6	p-Isopropyltoluene	0.5	U
95-50-1	1,2-Dichlorobenzene	0.5	U
104-51-8	n-Butylbenzene	0.5	U
96-12-8	1,2-Dibromo-3-Chloropropane	0.5	U
120-82-1	1,2,4-Trichlorobenzene	0.5	U
87-68-3	Hexachlorobutadiene	0.5	U
91-20-3	Naphthalene	0.5	U
87-61-6	1,2,3-Trichlorobenzene	0.5	U
1330-20-7	Xylene (total)	0.5	U

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKK4

Lab Name: AQUATEC INC

Contract: 93206

Lab Code: AQUAI

Case No.: ASH

SAS No.:

SDG No.: 46558

Matrix: (soil/water) WATER

Lab Sample ID: VBLKK4

Sample wt/vol: 25.0 (g/mL) ML

Lab File ID: KYUB002AV

Level: (low/med) LOW

Date Received:

% Moisture: not dec.

Date Analyzed: 09/21/94

GC Column: CAP ID: 0.530 (mm)

Dilution Factor: 5.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 541-02-6	CYCLOPENTASILOXANE, DECAMETH	13.08	0.7	JXN