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TEXT ON CHAIN OF CUSTODY D072819

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LPC#1790000000--Tazewell County
East Peoria Public Well No. 9
ILD984766386
Superfund/HRS
Volume 2 of 2

CERCLA
Screening Site Inspection Report

Illinois Environmental Protection Agency
P.O. Box 19276
Springfield, IL 62794-9276

Confidential Material May be Enclosed

Illinois Environmental Protection Agency · P.O. Box 19276, Springfield, IL 62794-9276

MEMORANDUM

DATE: September 11, 1989

TO: John Morgan

FROM: Ron Turpin & Jim Shaw

SUBJECT: Review of Data Package
Tazewell County/E. Peoria Wells

The Division of Laboratories Quality Assurance Section has reviewed the above referenced data package. The package is for 5 water samples and 1 trip blank for Target Compound List (TCL) Organics and Inorganics. The results are valid as qualified on the attached Forms I.

attachments

cc: John Hurley
Karl Reed
Tom Krause
Bob Staber

Received
June 28, 1989

U.S. EPA - CLP

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

SOW No.: 7/87 Rev. 12/87

EPA Sample No.	Lab Sample ID.
G101-S	B906315 *
G101-D	B906316
G103	B906317
G104-S	B906318
G104-D	B906319

Were ICP interelement corrections applied? Yes/No ___

Were ICP background corrections applied? Yes/No ___

If yes-were raw data generated before application of background corrections? Yes/No ___

Comments:

Release of the data contained in this hardcopy data package ~~and in the computer-readable data submitted on floppy diskette~~ has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Lab Manager: [signature]

Date: 6/26/89

ILLINOIS EPA LABORATORY

CASE NARRATIVE : (TAZWEL) TAZEWELL CO. EAST PEORIA PUBLIC WELLS

SAMPLE I.D. : G101D
G101S
G103
G104D
G104S

RECEIVED : 05/10/89

Volatile/Semivolatile data :

See the CASS Case for the DFTPP spectrum for 05/23/89. GC

Pesticide data :

The MS and MSD were not spiked with DBC surrogate.

The samples were extracted 7 days after receipt. cmc

RECEIVED
JUL 11 1989
IEPA LABORATORIES
Manager's Office

J Hurley

IEPA - CLP
CHAIN OF CUSTODY

MAY 10 1989
D072816

Seal #: 3167
Date Sealed: 5/9/89 By: AWW

Facility
Name : EAST PEORIA PUBLIC WELL#9
Region: CENTRAL
County: TAZEWELL

Site Inventory # : 1790000000
Site Billing Code: SA-06
Project Manager : JOHN MORGAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	6103	5/10/89	2:00-2:05

Sample Appearance :

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : John Morgan Division/Company

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
2	3	40ml		VOA	N	5-10-89	2:00
2	9	1/2g		BNA	N	5-10-89	2:00
2	9	1/2g		PEST/PCB	N	5-10-89	2:05

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 1:30 PM Seal #: 3167 Intact?: Y / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 2:30 Seal #: 3168

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Reere W. NORTON Signature: Reere W. Norton

Date: MAY 10 1989 Time: 6PM Seal #: 3168 Intact?: (Y) / N

Lab Name: Springfield IEPA Comments:

D072816

IEPA - CLP
CHAIN OF CUSTODY

D072817

Seal #: 3165

Date Sealed: 5/9/89 By: AWW

Facility
Name : EAST PEORIA PUBLIC WELL#9
Region: CENTRAL
County: TAZEWELL

Site Inventory # : 1790000000
Site Billing Code: SA-06
Project Manager : JOHN MORGAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	G101D	5/10/89	9:45-9:55

Sample Appearance :

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : John Morgan Division/Company IEPA/LPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
2	8	40ml		VOA	N	5/10/89	9:45
2	9	1/2g		BNA	N	5-10-89	9:55
2	9	1/2g		PEST/PCB	N	5-10-89	9:50
						5-10-89	

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 9:37 AM Seal #: 0003165 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 9:55 Seal #: 0003166

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Reeve W. Norton **Signature:** Reeve W. Norton

Date: MAY 10 1989 **Time:** 6PM **Seal #:** 3166 **Intact?:** (Y) / N

Lab Name: Springfield IEPA **Comments:**

D072817

D072819

3157
-1.109 - AWW

IEPA - CLP
CHAIN OF CUSTODY

D072818

Seal #: 3157

Date Sealed: 5/9/89 By: AWW

Facility
Name : EAST PEORIA PUBLIC WELL#9
Region: CENTRAL
County: TAZEWELL

Site Inventory # : 1790000000
Site Billing Code: SA-06
Project Manager : JOHN MORGAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	6104D	5/10/89	11:45-11:55

Sample Appearance :

Collector Comments: 30 DAY TURN AROUND

Sampler Signature : John Morgan Division/Company IEPA / LPC

CONTAINER No.	Code	Size	Pres	ANALYSIS	FILTERING (Y/N)	Date	Time
2	9	40ml		VOA	N	5-10-89	11:45
2	9	1/2g		BNA	N	5-10-89	11:50
2	9	1/2g		PEST/PCB	N	5-10-89	11:55

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 11:35 Seal #: 3157 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 12:25PM Seal #: 3158

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Reeve W. NORTON **Signature:** Reeve W. Norton

Date: MAY 10 1989 **Time:** 6PM **Seal #:** 3158 **Intact?:** (Y) / N

D072819

Seal 3157

5/9/89 AWW

EAST PEORIA PUBLIC WELL #9
CENTRAL
TAZEWELL

1790000000
SA-06
JOHN MORGAN

LABORATORY #

30 DAY TURNAROUND

2 8 40ml - TRIP BLANK

JOHN MORGAN

5/10/89

JOHN MORGAN

5/10/89

Courier - sample delivery: _____

I certify that I received the sample shipping container from the courier listed above with the shipping container in tact, intact and sealed. Sign in the shipping book for the sample. After recording the sample in the official record book, the sample will be stored in a security [illegible] refrigerator, either in a locked or a secured area.

Received by (print): Reeve W. NORTON Signature: Reeve W. Norton

Date: MAY 10 1989 Time: 6PM Seal #: 3158 Intact? Y / N

Lab Name: Springfield, IEPA Comments: D072819

IEPA - CLP
CHAIN OF CUSTODY

D072821

Seal #: 3163

Date Sealed: 5/9/89 By: AWW

Facility
Name : EAST PEORIA PUBLIC WELL#9
Region: CENTRAL
County: TAZEWELL

Site Inventory # : 1790000000
Site Billing Code: SA-06
Project Manager : JOHN MORGAN

LABORATORY #	SAMPLE I.D.	SAMPLE DATE	SAMPLE TIME
	G104-S	5/10/89	11:10 - 11:16

Sample Appearance :

Collector Comments: 30 DAY TURNAROUND

Sampler Signature : John Morgan Division/Company IEPA / LPC

CONTAINER				ANALYSIS	FILTERING		
No.	Code	Size	Pres		(Y/N)	Date	Time
2	8	40ml		VOA	N	5-10-89	11:10
2	9	1/2g		BNA	N	5-10-89	11:13
2	9	1/2g		PEST/PCB	N	5-10-89	11:16

CHAIN OF CUSTODY CHRONICLE

I certify that I received the sample shipping container with the shipping container sealed and intact.

Opened by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 10:50 Seal #: 3163 Intact?: (Y) / N

I certify that the sample listed above was collected and placed in bottles in my presence, that each bottle was placed intact in the sample shipping container and that I sealed the sample shipping container at the date and time listed below.

Sealed by (print): JOHN MORGAN Signature: John Morgan

Date: 5/10/89 Time: 12:25PM Seal #: 3164

Courier - sample pickup:

Courier - sample delivery:

I certify that I received the sample shipping container from the courier listed above with the shipping container and seal intact and that each bottle in the shipping container was intact. After recording the sample in the official record book, the sample will be in the custody of competent laboratory personnel at all times or locked in a secured area.

Opened by (print): Reeve W. NORTON Signature: Reeve W. Norton

Date: MAY 10 1989 Time: 6 PM Seal #: 3164 Intact?: (Y) / N

Lab Name: Springfield, IEPA Comments:

D072821

SAMPLE HOLDING TIMES AND DILUTIONS

Laboratory ILLINOIS EPA
Case Number TAZWEL

ple			VOA			ENA					PEST				
Number	M	L	Rcvd	Anal	Hld	Dil	Extr	Hld	Anal	Hld	Dil	Extr	Hld	Anal	Hld	Dil
G101D	W	L	05/10	05/11	1											
G101S	W	L	05/10	05/11	1											
G103	W	L	05/10	05/11	1											
G104D	W	L	05/10	05/11	1											
G104S	W	L	05/10	05/11	1											
VBLKW	W	L	05/10	05/11	1											
G101D	W	L	05/10				05/12	2	05/24	12						
G101S	W	L	05/10				05/12	2	05/24	12						
G103	W	L	05/10				05/12	2	05/24	12						
G104D	W	L	05/10				05/12	2	05/24	12						
G104S	W	L	05/10				05/12	2	05/24	12						

RECEIVED
JUL 11 1989
IEPA LABORATORIES
Manager's Office

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G 101-S

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Lab Sample ID: B906315

Level (low/med): _____ Date Received: 05/11/89

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	222			P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	52	B		P	
7440-41-7	Beryllium	0.6	U		P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	154800			P	
7440-47-3	Chromium	14	U		P	
7440-48-4	Cobalt	24	B		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	1572		N*	P	R
7439-92-1	Lead	8		S	F	
7439-95-4	Magnesium	49190			P	
7439-96-5	Manganese	148			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	173		N	P	J
7440-09-7	Potassium	4770	B		P	
7782-49-2	Selenium	1.2	U	S	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	59910			P	J
7440-28-0	Thallium	0.9	U	S	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	22	U		P	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	161000	U		AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide SW846 Methodology
Sulfate IEPA Methodology

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G 101-D

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Lab Sample ID: B906316

Level (low/med): _____ Date Received: 05/11/89

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	224			P
7440-36-0	Antimony	2.1	U	S	F
7440-38-2	Arsenic	1.2	U	S	F
7440-39-3	Barium	62	B		P
7440-41-7	Beryllium	0.6	B		P
7440-43-9	Cadmium	1.2	U		P
7440-70-2	Calcium	134600			P
7440-47-3	Chromium	9 U	~~B~~		P
7440-48-4	Cobalt	6 U	~~B~~		P
7440-50-8	Copper	1.7	U		P
7439-89-6	Iron	695		N*	P
7439-92-1	Lead	11		S	F
7439-95-4	Magnesium	45800			P
7439-96-5	Manganese	55			P
7439-97-6	Mercury	0.09			AV
7440-02-0	Nickel	4.3	U	N	P
7440-09-7	Potassium	4554	B		P
7782-49-2	Selenium	1.2	U	S	F
7440-22-4	Silver	2.3	U		P
7440-23-5	Sodium	53190			P
7440-28-0	Thallium	0.9	U	S	F
7440-62-2	Vanadium	1.8	U		P
7440-66-6	Zinc	18 U	~~B~~		P
	Cyanide	10	U		AS
	Sulfide	1000	U		T
	Sulfate	134000			AS

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide SW846 Methodology

Sulfate IEPA Methodology

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-103

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Lab Sample ID: B906317

Level (low/med): _____ Date Received: 05/11/89

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	204			P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	65	B		P	
7440-41-7	Beryllium	0.7	B		P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	118000			P	
7440-47-3	Chromium	5 U	~~B~~		P	
7440-48-4	Cobalt	1.7 U	~~B~~		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	397		N*	P	R
7439-92-1	Lead	2	B	S	F	
7439-95-4	Magnesium	38580			P	
7439-96-5	Manganese	13	B		P	J
7439-97-6	Mercury	0.07	B		AV	
7440-02-0	Nickel	4.3	U	N	P	J
7440-09-7	Potassium	3685	B		P	
7782-49-2	Selenium	1.2	U	S	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	53290			P	J
7440-28-0	Thallium	0.9	U	S	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	83000			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide SW846 Methodology
Sulfate IEPA Methodology

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G 104-S

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Lab Sample ID: B906318

Level (low/med): _____ Date Received: 05/11/89

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	258			P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	78	B		P	
7440-41-7	Beryllium	1	B		P	
7440-43-9	Cadmium	1.2	U		P	
7440-70-2	Calcium	144800			P	
7440-47-3	Chromium	3.0	U		P	
7440-48-4	Cobalt	1.7	U		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	716		N*	P	R
7439-92-1	Lead	14		S	F	
7439-95-4	Magnesium	46120			P	
7439-96-5	Manganese	18			P	J
7439-97-6	Mercury	0.05	U		AV	
7440-02-0	Nickel	4.3	U	N	P	J
7440-09-7	Potassium	3444	B		P	
7782-49-2	Selenium	3	B	S	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	51190			P	J
7440-28-0	Thallium	0.9	U	S	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	15	U		P	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	105000			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide SW846 Methodology
Sulfate IEPA Methodology

U.S. EPA - CLP

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

G 104-D

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Lab Sample ID: B906319

Level (low/med): _____ Date Received: 05/11/89

% Solids: _____

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

CAS No.	Analyte	Concentration	C	Q	M	
7429-90-5	Aluminum	274			P	
7440-36-0	Antimony	2.1	U	S	F	
7440-38-2	Arsenic	1.2	U	S	F	
7440-39-3	Barium	87	B		P	
7440-41-7	Beryllium	1.1	B		P	
7440-43-9	Cadmium	1.2	B		P	
7440-70-2	Calcium	138800			P	
7440-47-3	Chromium	3.0	U		P	
7440-48-4	Cobalt	1.7	U		P	
7440-50-8	Copper	1.7	U		P	J
7439-89-6	Iron	643		N*	P	R
7439-92-1	Lead	11		S	F	
7439-95-4	Magnesium	46060			P	
7439-96-5	Manganese	7.6	B		P	J
7439-97-6	Mercury	0.06	B		AV	
7440-02-0	Nickel	4.3	U	N	P	J
7440-09-7	Potassium	41890			P	
7782-49-2	Selenium	1.2	U	S	F	
7440-22-4	Silver	2.3	U		P	
7440-23-5	Sodium	53480			P	J
7440-28-0	Thallium	0.9	U	S	F	
7440-62-2	Vanadium	1.8	U		P	
7440-66-6	Zinc	11	U		P	
	Cyanide	10	U		AS	
	Sulfide	1000	U		T	
	Sulfate	90000			AS	

Color Before: Colorless Clarity Before: Clear Texture: _____

Color After: Colorless Clarity After: Clear Artifacts: _____

Comments:

Sulfide SW846 Methodology
Sulfate IEPA Methodology

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G103

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972816

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC04

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	5	J
71-55-6	1,1,1-Trichloroethane	0.2	J
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972816

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC04

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972817

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC05

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	11	J
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	48	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972817

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC05

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972818

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC06

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	18	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	15	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G104D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972818

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC06

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLKW

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972819

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC03

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	0.7	J
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	10	~~U~~ R
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKW

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972819

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC03

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97291

Matrix: (soil/water) WATER Lab Sample ID: D972820

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC07

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	18	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	0.9	J
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	36	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972820

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC07

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC08

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column: (pack/cap) WIDE Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	5	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-35-3	1,1-Dichloroethane	5	U
540-59-0	1,2-Dichloroethene (total)	5	U
67-66-3	Chloroform	5	U
107-06-2	1,2-Dichloroethane	5	U
78-93-3	2-Butanone	22	J
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
108-05-4	Vinyl Acetate	10	U
75-27-4	Bromodichloromethane	5	U
78-87-5	1,2-Dichloropropane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
79-01-6	Trichloroethene	5	U
124-48-1	Dibromochloromethane	5	U
79-00-5	1,1,2-Trichloroethane	5	U
71-43-2	Benzene	5	U
10061-02-6	Trans-1,3-Dichloropropene	5	U
75-25-2	Bromoform	5	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	J
79-34-5	1,1,2,2-Tetrachloroethane	5	U
108-88-3	Toluene	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
100-42-5	Styrene	5	U
----------	Total Xylenes	5	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972821

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: A0511LC08

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ Date Analyzed: 05/11/89

Column (pack/cap) WIDE Dilution Factor: 1.00

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972817

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK06

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G101D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972817

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK06

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	UJ
205-99-2	Benzo(b)Fluoranthene	10	UJ
207-08-9	Benzo(k)Fluoranthene	10	UJ
50-32-8	Benzo(a)Pyrene	10	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UJ
53-70-3	Dibenz(a,h)Anthracene	10	UJ
191-24-2	Benzo(g,h,i)Perylene	10	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972817

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK06T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.08	1.3	BAJ
2.	UNKNOWN	33.04	2.2	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972820

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK08

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G101S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972820

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK08

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G101S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972820

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK08T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.02	2.1	BAJ
2.	UNKNOWN ALIP. HYDROCARBON	6.18	1.6	J
3.	UNKNOWN	20.37	15	J
4.	UNKNOWN	30.61	1.5	J

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G103

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972816

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK04

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/12/89

Extraction: (SeoF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972816

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK04

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10.0 ~~9.4~~ ~~EJ~~	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	U
205-99-2	Benzo(b)Fluoranthene	10	U
207-08-9	Benzo(k)Fluoranthene	10	U
50-32-8	Benzo(a)Pyrene	10	U
193-39-5	Indeno(1,2,3-cd)Pyrene	10	U
53-70-3	Dibenz(a,h)Anthracene	10	U
191-24-2	Benzo(g,h,i)Perylene	10	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

G103

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972816

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK04T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.98	2.0	BAJ
2.	UNKNOWN	6.17	1.4	J
3.	UNKNOWN ALIP. HYDROCARBON	29.24	0.57	J
4.	UNKNOWN ALIP. HYDROCARBON	30.52	0.98	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

G104D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972818

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK07

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972818

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK07

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10 0 ~~50~~	~~U~~
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	UJ
205-99-2	Benzo(b)Fluoranthene	10	UJ
207-08-9	Benzo(k)Fluoranthene	10	UJ
50-32-8	Benzo(a)Pyrene	10	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UJ
53-70-3	Dibenz(a,h)Anthracene	10	UJ
191-24-2	Benzo(g,h,i)Perylene	10	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104D

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972818

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK07T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 4

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.17	2.1	BAJ
2.	UNKNOWN	12.75	2.8	J
3.	UNKNOWN	20.39	16	J
4.	UNKNOWN	33.06	0.99	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK09

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G104S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK09

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

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

CAS NO.	COMPOUND		Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	10	U
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	10	U
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	UJ
205-99-2	Benzo(b)Fluoranthene	10	UJ
207-08-9	Benzo(k)Fluoranthene	10	UJ
50-32-8	Benzo(a)Pyrene	10	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UJ
53-70-3	Dibenz(a,h)Anthracene	10	UJ
191-24-2	Benzo(g,h,i)Perylene	10	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

G104S

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972821

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK09T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05/12/89

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.95	1.9	BAJ
2.	UNKNOWN ALIP. HYDROCARBON	29.26	1.1	J
3.	UNKNOWN ALIP. HYDROCARBON	30.52	3.6	J
4.	UNKNOWN ALIP. HYDROCARBON	32.09	1.9	J
5.	UNKNOWN ALIP. HYDROCARBON	34.01	1.6	J
6.	UNKNOWN ALIP. HYDROCARBON	36.39	1.1	J

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972909

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK03

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	10	U
111-44-4	bis(2-Chloroethyl)Ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
100-51-6	Benzyl Alcohol	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
39638-32-9	bis(2-Chloroisopropyl)Ether	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-Di-n-Propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
65-85-0	Benzoic Acid	50	U
111-91-1	bis(2-Chloroethoxy)Methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-Methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	50	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	50	U
131-11-3	Dimethyl Phthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLKW

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) WATER Lab Sample ID: D972909

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK03

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
99-09-2	3-Nitroaniline	50	U
83-32-9	Acenaphthene	10	U
51-28-5	2,4-Dinitrophenol	50	U
100-02-7	4-Nitrophenol	50	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	10	U
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-10-6	4-Nitroaniline	50	U
534-52-1	4,6-Dinitro-2-Methylphenol	50	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	50	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
84-74-2	Di-n-Butylphthalate	0.5	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
56-55-3	Benzo(a)Anthracene	10	U
117-81-7	bis(2-Ethylhexyl)Phthalate	0.3	J
218-01-9	Chrysene	10	U
117-84-0	Di-n-Octyl Phthalate	10	UJ
205-99-2	Benzo(b)Fluoranthene	10	UJ
207-08-9	Benzo(k)Fluoranthene	10	UJ
50-32-8	Benzo(a)Pyrene	10	UJ
193-39-5	Indeno(1,2,3-cd)Pyrene	10	UJ
53-70-3	Dibenz(a,h)Anthracene	10	UJ
191-24-2	Benzo(g,h,i)Perylene	10	UJ

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

SBLKW

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix: (soil/water) _____ Lab Sample ID: D972909

Sample wt/vol: 1000 (g/mL) ML Lab File ID: MAY24HK03T

Level: (low/med) LOW Date Received: 05/10/89

% Moisture: not dec. ____ dec. ____ Date Extracted: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Analyzed: 05/24/89

GPC Cleanup: (Y/N) N pH: 7.0 Dilution Factor: 1.00

Number TICs found: 3

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	4.67	9.7	AJ
2.	UNKNOWN	5.25	2.9	AJ
3.	UNKNOWN	7.57	0.80	AJ

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G103

Lab Name: IEPA-Springfield Contract: Elaria Wells

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: D972216

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

Level: (low/med) low Date Received: 05-10-89

% Moisture: not dec. _____ dec. _____ Date Extracted: 05-17-89

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-07-89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-101D

Lab Name: IEPA Springfield Contract: E. Peoria Well

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) water Lab Sample ID: 0972817

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

Level: (low/med) low Date Received: 05-10-89

% Moisture: not dec. — dec. — Date Extracted: 05-17-89

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-07-89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-104D

Lab Name: HERA-Springfield Contract: E. Penn-Wells

Lab Code:_____ Case No.:_____ SAS No.:_____ SDG No.:_____

Matrix: (soil/water) water Lab Sample ID: D972518

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

Level: (low/med) low Date Received: 05-10-89

% Moisture: not dec. ____ dec. ____ Date Extracted: 05-12-89

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-07-89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-101S

Lab Name: EPA-Spokane Contract: E. Bragwell

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) Water Lab Sample ID: D972320

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

Level: (low/med) low Date Received: 05-10-99

% Moisture: not dec. — dec. — Date Extracted: 05-17-99

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-07-99

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

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

CAS NO.	COMPOUND		Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.0012	J
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

G-104S

Lab Name: [illegible] Contract: [illegible]

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) water Lab Sample ID: D922821

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

Level: (low/med) low Date Received: 05-10-89

% Moisture: not dec. — dec. — Date Extracted: 05-17-89

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-02-89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: IEPA Springfield Contract: E. Peoria-Wells

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) water Lab Sample ID: 997306LRBL

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

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

% Moisture: not dec. _____ dec. _____ Date Extracted: ~~06-07-89~~ 5-17-89

Extraction (SepF/Cont/Sonc) SepF Date Analyzed: 06-07-89

GPC Cleanup: (Y/N) N pH: 7 Dilution Factor: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
319-84-6	alpha-BHC	0.05	U
319-85-7	beta-BHC	0.05	U
319-86-8	delta-BHC	0.05	U
58-89-9	gamma-BHC	0.05	U
76-44-8	Heptachlor	0.05	U
309-00-2	Aldrin	0.05	U
1024-57-3	Hept. epoxide	0.05	U
959-98-8	Endosulfan I	0.05	U
60-57-1	Dieldrin	0.10	U
72-55-9	4,4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4,4'-DDD	0.10	U
1031-07-8	Endo. sulfate	0.10	U
50-29-3	4,4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin Ketone	0.10	U
5103-71-9	a Chlordane	0.50	U
5103-74-2	g Chlordane	0.50	U
8001-35-2	Toxaphene	1.00	U
12674-11-2	Aroclor-1016	0.50	U
11104-28-2	Aroclor-1221	0.50	U
11141-16-5	Aroclor-1232	0.50	U
53469-21-9	Aroclor-1242	0.50	U
12672-29-6	Aroclor-1248	0.50	U
11097-69-1	Aroclor-1254	1.00	U
11096-82-5	Aroclor-1260	1.00	U

U.S. EPA - CLP

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Initial Calibration Source: Inorganic Venture

Continuing Calibration Source: Inorganic Venture

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum	10000	10590	106	10000	10810	108	10710	107	P
Antimony	50	49	98	50	50	100	47	94	F
Arsenic	40	40	100	40	40	100	40	100	F
Barium	10000	9854	98	10000	10130	101	10080	101	P
Beryllium	250	260	104	250	264	106	263	105	P
Cadmium	500	518	104	500	534	107	531	106	P
Calcium	25000	25040	100	25000	25720	103	25420	102	P
Chromium	1000	1036	104	1000	1060	106	1055	106	P
Cobalt	2500	2482	99	2500	2542	102	2527	101	P
Copper	1250	1245	100	1250	1274	102	1268	101	P
Iron	5000	5000	100	5000	5000	100	4907	98	P
Lead	20	20	100	20	19	95	18	90	F
Magnesium	25000	24740	99	75000	25420	102	25190	101	P
Manganese	2500	2736	109	2500	2801	112	2779	111	P
Mercury	1.4	1.27	91	1.4	1.28	91	1.27	91	AV
Nickel	2500	2438	97	2500	2476	99	2454	98	P
Potassium	25000	24550	98	25000	24590	98	23840	95	P
Selenium	10	10	100	10	10	100	9	90	F
Silver	250	245	98	250	251	100	249	100	P
Sodium	25000	25430	102	25000	26080	104	25950	104	P
Thallium	50	49	98	50	52	104	54	108	F
Vanadium	2500	2475	99	2500	2511	100	2496	100	P
Zinc	2500	2487	99	2500	2575	103	2560	102	P
Cyanide	100	98	98	100	98				AS
Sulfide	10000	10000	100						T
Sulfate	105000	103200	98	105000	104200	99	102000	97	AS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

U.S. EPA - CLP

2A

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Initial Calibration Source: _____

Continuing Calibration Source: _____

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found #3	Continuing Calibration %R(1)	Continuing Calibration Found #4	Continuing Calibration %R(1)	M
Aluminum									
Antimony					50	100			
Arsenic					40	100			
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead					21	105			
Magnesium									
Manganese									
Mercury					1.27	91			
Nickel									
Potassium									
Selenium					10	100			
Silver									
Sodium									
Thallium					55	110	52	104	
Vanadium									
Zinc									
Cyanide									

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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2B
CRDL STANDARD FOR AA AND ICP

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

AA CRDL Standard Source: Inorganic Venture

ICP CRDL Standard Source: Inorganic Venture

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
					Initial		Final	
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				400	480	120	478	120
Antimony	20	21	105					
Arsenic	20	21	105					
Barium				400	395	99	406	102
Beryllium				10	10.8	108	10.8	108
* Cadmium								
Calcium								
Chromium				20	22.7	113	26	130
Cobalt				100	108	108	111	111
Copper				50	51	102	53	106
Iron				200	228	114	225	112
Lead	10	10	100					
Magnesium								
Manganese				30	29	97	30	110
Mercury	0.4	0.35	88					
Nickel				80	63	79	57	71
Potassium								
Selenium	10	10	100					
Silver				20	18.9	94	19.7	98
Sodium								
Thallium	20	20	100					
Vanadium				100	94	94	97	97
Zinc				40	44.5	111	44.4	111

U.S. EPA - CLP

3
BLANKS

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	78	U	78	U	78	U			78	U	
Antimony	2.1	U	2.1	U	2.1	U	2.1	U	2.1	U	
Arsenic	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	
Barium	1.6	U	1.6	U	1.6	U			1.6	U	
Beryllium	0.6	U	0.6	U	0.6	U			0.6	U	
Cadmium	1.2	U	1.2	U	1.2	U			1.2	U	
Calcium	137	U	137	U	137	U			137	U	
Chromium	3.0	U	3.0	U	3.0	U			4	B	
Cobalt	1.7	U	1.7	U	1.7	U			2	B	
Copper	1.7	U	1.7	U	1.7	U			1.7	U	
Iron	37	U	37	U	37	U			37	U	
Lead	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U	
Magnesium	92	U	92	U	92	U			92	U	
Manganese	1.2	U	1.2	U	1.2	U			1.2	U	
Mercury	0.05	U	0.05	U	0.05	U	0.05	U	0.05	U	
Nickel	4.3	U	4.3	U	4.3	U			4.3	U	
Potassium	260	U	260	U	260	U			550	B	
Selenium	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	
Silver	2.3	U	2.3	U	2.3	U			2.3	U	
Sodium	57	U	57	U	57	U			77	B	
Thallium	0.9	U	0.9	U	0.9	U	0.9	U	0.9	U	
Vanadium	1.8	U	1.8	U	1.8	U			1.8	U	
Zinc	11	U	11	U	11	U			34	B	
Cyanide	10	U	10	U					10	U	
Sulfide	1000	U							1000	U	
Sulfate	10000	U	10000	U	10000U						

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3
BLANKS

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Preparation Blank Matrix (soil/water): _____

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

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 4	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											
Antimony											
Arsenic											
Barium											
Beryllium											
Cadmium											
Calcium											
Chromium											
Cobalt											
Copper											
Iron											
Lead											
Magnesium											
Manganese											
Mercury											
Nickel											
Potassium											
Selenium											
Silver											
Sodium											
Thallium											
Vanadium											
Zinc											
Cyanide											

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4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No: _____

SAS No.: _____ SDG No.: 7

ICP ID Number: 1

ICS Source: Inorganic Venture

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	490400	502100	100	508700	511800	102
Antimony								
Arsenic								
Barium		500	0.0	452	90	0.0	472	94
Beryllium		500	1.2	449	90	8.9	468	94
Cadmium		1000	3	852	85	5	877	88
Calcium	500000	500000	504100	515800	103	518000	525300	105
Chromium		500	11	464	93	0.0	430	86
Cobalt		500	4.6	441	88	48	497	99
Copper		500	0.0	450	90	0.0	461	92
Iron	200000	200000	198000	202300	101	197200	199400	100
Lead		1000	0.0	1000	100	162	1029	103
Magnesium	500000	500000	503100	506600	101	514100	522100	104
Manganese		500	17	482	96	16	484	97
Mercury								
Nickel		1000	1.8	861	86	0.0	812	81
Potassium								
Selenium								
Silver		1000	0.8	923	92	0.0	935	94
Sodium								
Thallium								
Vanadium		500	77	532	106	76	541	108
Zinc		1000	0.0	861	86	0.0	894	89

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5A
SPIKE SAMPLE RECOVERY

B906315
EPA SAMPLE NO.

G 101-S

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL9 TAXEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Level (low/med): _____

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

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum	75-125	2138		222		2000	96		P
Antimony	75-125	90		2.1	U	100	90		F
Arsenic	75-125	30		1.2	U	40	75		F
Barium	75-125	2080		52	B	2000	101		P
Beryllium	75-125	52.5		0.6	U	50	105		P
Cadmium	75-125	52.5		1.2	U	50	104		P
Calcium									P
Chromium	75-125	190		14		200	88		P
Cobalt	75-125	507		24	B	500	97		P
Copper	75-125	259		1.7	U	250	104		P
Iron	75-125	988		1572		1000	-58	N	P
Lead	75-125	24		8		20	80		F
Magnesium									P
Manganese	75-125	536		148		500	78		P
Mercury	75-125	1.02		0.05	U	1.0	102		AV
Nickel	75-125	521		173		500	70	N	P
Potassium									P
Selenium	75-125	10		1.2	U	10	100		F
Silver	75-125	49.9		2.3	U	50	100		P
Sodium									P
Thallium	75-125	44		0.9	U	50	88		F
Vanadium	75-125	504		1.8	U	500	101		P
Zinc	75-125	526		22		500	101		P
Cyanide	75-125	95		10	U	100	95		AS
Sulfide	75-125	5000		1000	U	5000	100		T
Sulfate	75-125	249600		161000		100000	89		AS

Comments:

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5B

POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO.# 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Level (low/med): _____

Concentration Units: ug/L

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

Comments:

U.S. EPA - CLP

6
DUPLICATES

B906315
EPA SAMPLE NO.

G 101-S

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO # 1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Level (low/med): _____

% Solids for Sample: _____ % Solids for Duplicate: _____

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

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum	200	222		213		4.1		P
Antimony	60	2.1	U	2.1	U			F
Arsenic	10	1.2	U	1.2	U			F
Barium	200	52	B	55.6		6.7		P
Beryllium	5	0.6	U	0.6	U			P
Cadmium	5	1.2	U	1.3	B			P
Calcium		154800		156300		1.0		P
Chromium	10	14		3.0	U			P
Cobalt	50	24	B	14.5	B	49		P
Copper	25	1.7	U	2.8	B			P
Iron		1572		853		-59	*	P
Lead	5	8		8		0.0		F
Magnesium		49190		49440		0.5		P
Manganese		148		141		4.9		P
Mercury	0.2	0.05	U	0.05	U			AV
Nickel	40	173		189		8.8		P
Potassium		4770	B	5255		9.7		P
Selenium	5	1.2	U	1.2	U			F
Silver	10	2.3	U	2.3	U			P
Sodium		59910		59640		0.4		P
Thallium	10	0.9	U	0.9	U			F
Vanadium	50	1.8	U	1.8	U			P
Zinc	20	22		23.9		8.3		P
Cyanide	10	10	U	10	U			AS
Sulfide		1000	U	1000	U			T
Sulfate		161000		162000		0.6		AS

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7

LABORATORY CONTROL SAMPLE

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Solid LCS Source: _____

Aqueous LCS Source: Inorganic Ventures

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum	2000	2131	106						
Antimony	50	48	96						
Arsenic	40	36	90						
Barium	2000	2041	102						
Beryllium	50	52	104						
Cadmium	50	51.2	102						
Calcium									
Chromium	200	223	111						
Cobalt	500	515	103						
Copper	250	254	102						
Iron	1000	974	97						
Lead	20	18	90						
Magnesium									
Manganese	500	531	106						
Mercury	1.4	1.27	91						
Nickel	500	538	108						
Potassium									
Selenium	10	10	100						
Silver	50	49.2	98						
Sodium									
Thallium	50	50	100						
Vanadium	500	498	100						
Zinc	500	512	102						
Cyanide	100	97	97						
Sulfide									
Sulfate	100000	101200	101						

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8

STANDARD ADDITION RESULTS

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Concentration Units: ug/L

	EPA Sample No.	An	Dil	0 ADD ABS	1 ADD CON	1 ADD ABS	2 ADD CON	2 ADD ABS	3 ADD CON	3 ADD ABS	Final Conc.	r	Q
B906315	G101S	PB	1	8	10	16	20	24	50	53	8	0.999	
B906316	G101D	PB	1	10	10	18	20	28	50	55	11	1.000	
B906317	G103	PB	1	2	10	10	20	20	50	47	2	1.000	
B906319	G104S	PB	1	11	10	19	20	29	50	57	11	1.000	

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9

ICP SERIAL DILUTIONS

B906315

EPA SAMPLE NO.

G101-S

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

Matrix (soil/water): _____ Level (low/med): _____

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	222						NR
Antimony							NR
Arsenic							NR
Barium	52	B	39	B	25		P
Beryllium							NR
Cadmium							NR
Calcium	154800		154200		0.4		P
Chromium	14						NR
Cobalt	24	B					NR
Copper							NR
Iron	1572		1795		14		P
Lead							NR
Magnesium	49190		50300		2.2		P
Manganese	148		165		11		P
Mercury							NR
Nickel	173		74		57		P
Potassium	4770	B	5265		10		P
Selenium							NR
Silver							NR
Sodium	59910		60200		0.5		P
Thallium							NR
Vanadium							NR
Zinc	22						NR

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10
HOLDING TIMES

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

	EPA Sample No.	Matrix	Date Received	Mercury Prep Date	Mercury Holding Time	Cyanide Prep Date	Cyanide Holding Time
B906315	G101-S	WATER	5/11/89	5/12/89	1 DAY	5/12/89	1 DAY
B906316	G101-D	WATER	5/11/89	5/12/89	1 DAY	5/12/89	1 DAY
B906317	G103	WATER	5/11/89	5/12/89	1 DAY	5/12/89	1 DAY
B906318	G104-S	WATER	5/11/89	5/12/89	1 DAY	5/12/89	1 DAY
B906319	G104-D	WATER	5/11/89	5/12/89	1 DAY	5/12/89	1 DAY

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11

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

ICP ID Number: 1

Date: 5/5/89

Flame AA ID Number: _____

Furnace AA ID Number: 1

	Analyte	Wave-length (nm)	Back-ground	CRDL (ug/L)	IDL (ug/L)	M
	Aluminum	308.21		200	78	P
	Antimony	217.6	BZ	60	2.1	F
	Arsenic	193.7	BZ	10	1.2	F
	Barium	455.41		200	1.6	P
	Beryllium	313.04		5	0.6	P
	Cadmium	226.5		5	1.2	P
	Calcium	315.80		5000	137	P
	Chromium	267.71		10	3.0	P
	Cobalt	228.61		50	1.7	P
	Copper	324.75		25	1.7	P
	Iron	259.94		100	37	P
*	Lead	283.3	BZ	5	0.8	F
	Magnesium	279.55		5000	92	P
	Manganese	257.61		15	1.2	P
	Mercury	253.7		0.2	0.05	AV
	Nickel	231.60		40	4.3	P
	Potassium	766.49		5000	260	P
	Selenium	196.0	BZ	5	1.2	F
	Silver	328.06		10	2.3	P
	Sodium	589.59		5000	57	P
	Thallium	276.80	BZ	10	0.9	F
	Vanadium	311.07		50	1.8	P
	Zinc	213.86		20	11	P

Comments:

* Lead, 283.3 nm IDL 13ug/l ICP

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12A

ICP INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: ILLINOIS EPA CHAMPAIGN LAB

Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

ICP ID Number: 1

Date: 5/5/89

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al 500000 ug/l	Ca 500000 ug/l	Fe 200000 ug/l	Mg 500000 ug/l	—
Aluminum	308.21	-	403	50	624	
Antimony						
Arsenic						
Barium	455.41	5	2	0.6	0.6	
Beryllium	313.04	0.6	1.7	0.15	0.8	
Cadmium	226.50	38	7	67	13	
Calcium	315.80	162	-	56	180	
Chromium	267.71	4	7	29	94	
Cobalt	228.61	13	12	40	26	
Copper	324.75	14	7	7	5	
Iron	259.94	110	45	-	120	
Lead	283.3	1350	110	156	175	
Magnesium	279.55	93	200	28	-	
Manganese	257.61	13	1	87	30	
Mercury						
Nickel	231.60	15	18	70	44	
Potassium	766.49	90	23	118	10	
Selenium						
Silver	328.06	1	5	2	2	
Sodium	589.59	75	26	140	51	
Thallium						
Vanadium	311.07	17	10	14	13	
Zinc	213.86	45	6	40	29	

Comments:

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13
ICP LINEAR RANGES (QUARTERLY)

Lab Name: ILLINOIS EPA CHAMPAIGN LAB Contract: EAST PEORIA PUBLIC WELL #9 TAZEWELL CO #1790000000

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: 7

ICP ID Number: 1 Date: 5/5/89

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Aluminum	3 X 8	50150	P
Antimony			
Arsenic			
Barium	3 X 8	2023	P
Beryllium	3 X 8	997	P
Cadmium	3 X 8	1006	P
Calcium	3 X 8	490000	P
Chromium	3 X 8	1002	P
Cobalt	3 X 8	1013	P
Copper	3 X 8	991	P
Iron	3 X 8	50520	P
Lead	3 X 8	1002	P
Magnesium	3 X 8	246300	P
Manganese	3 X 8	5028	P
Mercury			
Nickel	3 X 8	1008	P
Potassium	3 X 8	74400	P
Selenium			
Silver	3 X 8	1004	P
Sodium	3 X 8	510200	P
Thallium			
Vanadium	3 X 8	1001	P
Zinc	3 X 8	1007	P

Comments:

2C

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1790000000

b Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	OTHER	TOT OUT
01	G101D	54	72	104	22	44	75		0
02	G101S	56	76	102	27	50	79		0
03	G103	56	74	89	28	48	74		0
04	G104D	51	68	87	23	41	71		0
05	G104S	53	70	91	26	43	73		0
06	SBLKW	60	75	100	26	54	82		0

		QC LIMITS
S1 (NBZ)	= Nitrobenzene-d5	(35-114)
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)
S3 (TPH)	= Terphenyl	(33-141)
S4 (PHL)	= Phenol-d5	(10-94)
S5 (2FP)	= 2-Fluorophenol	(21-100)
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)

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

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix Spike - EPA Sample No.: G104S

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
Phenol	100	0	47.6	48	12- 86
2-Chlorophenol	100	0	83.6	84	27-123
1,4-Dichlorobenzene	100	0	72.7	73	36 97
N-Nitroso-di-n-prop.(1)	100	0	87.6	88	41 116
1,2,4-Trichlorobenzene	100	0	67.6	68	39 98
4-Chloro-3-methylphenol	100	0	74.3	74	23 97
Acenaphthene	100	0	90.3	90	46-118
4-Nitrophenol	100	0	39.1	39	10- 80
2,4-Dinitrotoluene	100	0	84.6	85	24- 96
Pentachlorophenol	100	0	82.6	83	9-103
Pyrene	100	0	90.7	91	26-127

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	100	47.9	48	0	42	12- 86
2-Chlorophenol	100	87.8	88	-5	40	27-123
1,4-Dichlorobenzene	100	72.5	73	0	28	36 97
N-Nitroso-di-n-prop.(1)	100	87.8	88	0	38	41 116
1,2,4-Trichlorobenzene	100	65.5	66	3	28	39 98
4-Chloro-3-methylphenol	100	76.5	77	-4	42	23 97
Acenaphthene	100	85.7	86	5	31	46-118
4-Nitrophenol	100	41.3	41	-5	50	10- 80
2,4-Dinitrotoluene	100	86.2	86	-1	38	24- 96
Pentachlorophenol	100	57.4	57	37	50	9-103
Pyrene	100	88.5	89	2	31	26-127

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

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

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

COMMENTS:

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID: MAY24HK03 Lab Sample ID: D972909

Date Extracted: 05/12/89 Extraction:(SepF/Cont/Sonc) SEPF

Date Analyzed: 05/24/89 Time Analyzed: 1751

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

Instrument ID: 4021

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	G101D	D972817	MAY24HK06	05/24/89
02	G101D	D972817	MAY24HK06T	05/24/89
03	G101S	D972820	MAY24HK08	05/24/89
04	G101S	D972820	MAY24HK08T	05/24/89
05	G103	D972816	MAY24HK04	05/24/89
06	G103	D972816	MAY24HK04T	05/24/89
07	G104D	D972818	MAY24HK07	05/24/89
08	G104D	D972818	MAY24HK07T	05/24/89
09	G104S	D972821	MAY24HK09	05/24/89
10	G104S	D972821	MAY24HK09T	05/24/89
11	G104SMS	D972908	MAY23HK08	05/23/89
12	G104SMSD	D972908R	MAY23HK09	05/23/89

COMMENTS:

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID: MAY23HK01 DFTPP Injection Date: 05/23/89

Instrument ID: 4021 DFTPP Injection Time: 1630

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	57.5
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	50.1
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	48.2
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	23.7
365	Greater than 1.00% of mass 198	2.23
441	Present, but less than mass 443	11.9
442	Greater than 40.0% of mass 198	90.4
443	17.0 - 23.0% of mass 442	15.8 (17.5)2

1-Value is % mass 69 2-Value is % mass 442

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	G104SMS	D972908	MAY23HK08	05/23/89	2210
02	G104SMSD	D972908R	MAY23HK09	05/23/89	2254

5B

SEMIVOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

ɔ Name: ILLINOIS EPA Contract: 1790000000

ɔ Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

ɔ File ID: MAY24HK01 DFTPP Injection Date: 05/24/89

strument ID: 4021 DFTPP Injection Time: 1628

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0% of mass 198	59.8
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	52.7
70	Less than 2.0% of mass 69	0.0 (0.0)1
127	40.0 - 60.0% of mass 198	49.8
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 to 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	23.8
365	Greater than 1.00% of mass 198	2.46
441	Present, but less than mass 443	10.9
442	Greater than 40.0% of mass 198	77.2
443	17.0 - 23.0% of mass 442	15.7 (20.3)2

1-Value is % mass 69 2-Value is % mass 442

:S NE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD50	052489STD	MAY24HK02	05/24/89	1655
02	SBLKW	D972909	MAY24HK03	05/24/89	1751
03	SBLKW	D972909	MAY24HK03T	05/24/89	1751
04	G103	D972816	MAY24HK04	05/24/89	1845
05	G103	D972816	MAY24HK04T	05/24/89	1845
06	G101D	D972817	MAY24HK06	05/24/89	2039
07	G101D	D972817	MAY24HK06T	05/24/89	2039
08	G104D	D972818	MAY24HK07	05/24/89	2135
09	G104D	D972818	MAY24HK07T	05/24/89	2135
10	G101S	D972820	MAY24HK08	05/24/89	2230
11	G101S	D972820	MAY24HK08T	05/24/89	2230
12	G104S	D972821	MAY24HK09	05/24/89	2322
13	G104S	D972821	MAY24HK09T	05/24/89	2322

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 0178020007

Lab Code: SPFLD Case No.: CASS SAS No.: _____ SDG No.: D97249

Instrument ID: 4021 Calibration Date(s): 05/26/89 05/26/89

Min RRF for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = MAY26G02 RRF50 = MAY26G04
RRF80 = MAY26HK03 RRF120= MAY26HK05 RRF160= MAY26HK06

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	RRF	% RSD
Phenol *	0.761	0.997	0.765	0.835	1.028	0.877	14.5*
bis(2-Chloroethyl)Ether	1.060	1.105	0.924	0.949	1.131	1.034	9.0
2-Chlorophenol	0.833	0.903	0.675	0.693	0.834	0.788	12.6
1,3-Dichlorobenzene	0.904	0.923	0.691	0.703	0.823	0.809	13.5
1,4-Dichlorobenzene *	1.024	0.964	0.729	0.753	0.872	0.868	14.8*
Benzyl Alcohol	0.194	0.285	0.299	0.339	0.342	0.292	20.6
1,2-Dichlorobenzene	0.911	0.900	0.689	0.707	0.827	0.807	13.0
2-Methylphenol	0.575	0.753	0.630	0.668	0.804	0.686	13.5
bis(2-Chloroisopropyl)Ether	2.436	2.432	1.902	1.948	2.226	2.189	11.7
4-Methylphenol		0.570	0.536	0.587	0.700	0.479	57.3
N-Nitroso-Di-n-Propylamine #	0.730	0.869	0.728	0.728	0.778	0.767	8.0#
Hexachloroethane	0.412	0.424	0.316	0.313	0.325	0.358	15.4
Nitrobenzene	0.362	0.448	0.355	0.385	0.541	0.418	18.6
Isophorone	0.766	0.917	0.754	0.809	1.121	0.873	17.5
2-Nitrophenol *	0.147	0.166	0.133	0.156	0.245	0.169	26.0*
2,4-Dimethylphenol	0.186	0.288	0.251	0.297	0.423	0.289	30.0
Benzoic Acid		0.049	0.057	0.088	0.076	0.068	26.1
bis(2-Chloroethoxy)Methane	0.413	0.551	0.477	0.517	0.737	0.539	22.6
2,4-Dichlorophenol *	0.130	0.149	0.189	0.216	0.194	0.176	20.0*
1,2,4-Trichlorobenzene	0.255	0.294	0.225	0.238	0.329	0.268	16.0
Naphthalene	1.110	1.132	0.881	0.925	1.198	1.049	13.2
4-Chloroaniline	0.130	0.207	0.262	0.321	0.477	0.279	47.0
Hexachlorobutadiene *	0.124	0.136	0.107	0.115	0.159	0.128	15.9*
4-Chloro-3-Methylphenol *	0.164	0.217	0.201	0.234	0.330	0.229	27.1*
2-Methylnaphthalene	0.725	0.855	0.644	0.661	0.837	0.744	13.1
Hexachlorocyclopentadiene #	0.147	0.176	0.146	0.177	0.262	0.182	26.0#
2,4,6-Trichlorophenol *	0.239	0.286	0.254	0.302	0.444	0.305	26.8*
2,4,5-Trichlorophenol		0.257	0.227	0.292	0.479	0.314	36.1
2-Chloronaphthalene	1.053	1.171	0.969	1.072	1.477	1.148	17.2
2-Nitroaniline		0.332	0.331	0.440	0.610	0.428	30.7
Dimethyl Phthalate	1.311	1.401	1.131	1.262	1.688	1.359	15.3
Acenaphthylene	1.987	2.072	1.575	1.694	2.121	1.890	12.8
2,6-Dinitrotoluene	0.267	0.296	0.234	0.258	0.346	0.280	15.3
3-Nitroaniline		0.152	0.190	0.237	0.358	0.234	38.3
Acenaphthene *	1.350	1.316	0.982	1.064	1.380	1.218	15.0*
2,4-Dinitrophenol #		0.043	0.055	0.088	0.134	0.080	50.9#
4-Nitrophenol #		0.069	0.046	0.053	0.077	0.061	23.4#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: 0178020007

Lab Code: SPFLD Case No.: CASS SAS No.: _____ SDG No.: D97249

Instrument ID: 4021 Calibration Date(s): 05/26/89 05/26/89

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = MAY26G02 RRF50 = MAY26G04
RRF80 = MAY26HK03 RRF120= MAY26HK05 RRF160= MAY26HK06

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.650	1.840	1.372	1.516	2.028	1.681	15.4
2,4-Dinitrotoluene	0.334	0.363	0.308	0.360	0.480	0.369	17.9
Diethylphthalate	1.398	1.541	1.106	1.200	1.477	1.344	13.8
4-Chlorophenyl-phenylether	0.620	0.643	0.469	0.519	0.666	0.583	14.6
Fluorene	1.416	1.511	1.047	1.123	1.394	1.298	15.5
4-Nitroaniline		0.139	0.093	0.136	0.206	0.144	32.4
4,6-Dinitro-2-Methylphenol		0.080	0.082	0.096	0.136	0.099	26.3
N-Nitrosodiphenylamine (1) *	0.561	0.377	0.457	0.476	0.632	0.501	19.6*
4-Bromophenyl-phenylether	0.196	0.194	0.160	0.175	0.244	0.194	16.3
Hexachlorobenzene	0.215	0.214	0.171	0.181	0.249	0.206	15.1
Pentachlorophenol *		0.085	0.085	0.087	0.132	0.097	23.9*
Phenanthrene	0.988	1.017	0.818	0.871	1.232	0.985	16.3
Anthracene	1.052	1.105	0.854	0.839	1.013	0.973	12.3
Di-n-Butylphthalate	1.508	1.460	1.160	1.139	1.305	1.314	12.8
Fluoranthene *	1.057	1.038	0.878	0.877	1.040	0.978	9.4*
Pyrene	1.117	1.096	0.904	0.901	1.091	1.022	10.7
Butylbenzylphthalate	0.905	0.866	0.769	0.798	1.062	0.880	13.1
3,3'-Dichlorobenzidine	0.140	0.162	0.209	0.270	0.399	0.236	44.0
Benzo(a)Anthracene	1.386	1.327	1.117	1.121	1.488	1.288	12.8
bis(2-Ethylhexyl)Phthalate	1.572	1.441	1.170	1.184	1.548	1.383	14.1
Chrysene	1.148	1.261	1.080	1.116	1.494	1.220	13.7
Di-n-Octyl Phthalate *	4.529	4.410	3.695	4.251	5.275	4.432	12.9*
Benzo(b)Fluoranthene	1.745	1.865	1.705	2.064	2.716	2.019	20.5
Benzo(k)Fluoranthene	2.213	1.879	1.498	1.682	2.280	1.910	17.6
Benzo(a)Pyrene *	1.673	1.801	1.485	1.760	2.378	1.819	18.4*
Indeno(1,2,3-cd)Pyrene	0.751	0.886	0.929	1.203	1.632	1.080	32.4
Dibenz(a,h)Anthracene	0.466	0.704	0.286	0.836	1.458	0.750	59.9
Benzo(g,h,i)Perylene	0.522	0.650	0.594	0.760	1.115	0.728	32.0
Nitrobenzene-d5	0.355	0.437	0.372	0.376	0.381	0.384	8.1
2-Fluorobiphenyl	1.228	1.438	1.197	1.288	1.356	1.301	7.5
Terphenyl-d14	0.971	1.168	0.954	0.982	0.961	1.007	9.0
Phenol-d5	1.016	1.294	1.121	1.130	1.035	1.119	9.8
2-Fluorophenyl	1.119	1.264	0.978	0.816	0.757	0.987	21.3
2,4,6-Tribromophenol	0.259	0.331	0.243	0.275	0.284	0.278	12.0

(1) Cannot be separated from Diphenylamine

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Instrument ID: 4021 Calibration date: 05/24/89 Time: 1655

Lab File ID: MAY24HK02 Init. Calib. Date(s): 05/26/89 05/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Phenol	*	0.877	1.032	-17.7	*
bis(2-Chloroethyl)Ether		1.034	1.039	-0.5	
2-Chlorophenol		0.788	0.829	-5.2	
1,3-Dichlorobenzene		0.809	0.783	3.2	
1,4-Dichlorobenzene	*	0.868	0.840	3.2	*
Benzyl Alcohol		0.292	0.398	-36.3	
1,2-Dichlorobenzene		0.807	0.832	-3.1	
2-Methylphenol		0.686	0.824	-20.1	
bis(2-Chloroisopropyl)Ether		2.189	2.179	0.5	
4-Methylphenol		0.611	0.753	-23.2	
N-Nitroso-Di-n-Propylamine	#	0.767	0.822	-7.2	#
Hexachloroethane		0.358	0.334	6.7	
Nitrobenzene		0.418	0.425	-1.7	
Isophorone		0.873	0.918	-5.2	
2-Nitrophenol	*	0.169	0.190	-12.4	*
2,4-Dimethylphenol		0.289	0.348	-20.4	
Benzoic Acid		0.060	0.124	-99.9	
bis(2-Chloroethoxy)Methane		0.539	0.607	-12.6	
2,4-Dichlorophenol	*	0.194	0.200	-3.1	*
1,2,4-Trichlorobenzene		0.268	0.271	-1.1	
Naphthalene		1.049	1.045	0.4	
4-Chloroaniline		0.279	0.328	-17.6	
Hexachlorobutadiene	*	0.128	0.125	2.3	*
4-Chloro-3-Methylphenol	*	0.255	0.295	-15.7	*
2-Methylnaphthalene		0.744	0.749	-0.7	
Hexachlorocyclopentadiene	#	0.182	0.082	55.0	#
2,4,6-Trichlorophenol	*	0.305	0.344	-12.8	*
2,4,5-Trichlorophenol		0.314	0.326	-3.8	
2-Chloronaphthalene		1.148	1.202	-4.7	
2-Nitroaniline		0.428	0.534	-24.8	
Dimethyl Phthalate		1.359	1.423	-4.7	
Acenaphthylene		1.890	1.826	3.4	
2,6-Dinitrotoluene		0.280	0.273	2.5	
3-Nitroaniline		0.234	0.261	-11.5	
Acenaphthene	*	1.218	1.181	3.0	*
2,4-Dinitrophenol	#	0.087	0.083	4.6	#
4-Nitrophenol	#	0.061	0.051	16.4	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Instrument ID: 4021 Calibration date: 05/24/89 Time: 1655

Lab File ID: MAY24HK02 Init. Calib. Date(s): 05/26/89 05/26/89

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	RRF	RRF50	%D
Dibenzofuran	1.681	1.688	-0.4
2,4-Dinitrotoluene	0.369	0.374	-1.4
Diethylphthalate	1.344	1.327	1.3
4-Chlorophenyl-phenylether	0.583	0.568	2.6
Fluorene	1.298	1.262	2.8
4-Nitroaniline	0.144	0.170	-18.1
4,6-Dinitro-2-Methylphenol	0.099	0.109	-10.1
N-Nitrosodiphenylamine (1) *	0.501	0.377	24.8 *
4-Bromophenyl-phenylether	0.194	0.188	3.1
Hexachlorobenzene	0.206	0.204	1.0
Pentachlorophenol *	0.097	0.098	-1.0 *
Phenanthrene	0.985	0.982	0.3
Anthracene	0.973	1.004	-3.2
Di-n-Butylphthalate	1.314	1.414	-7.6
Fluoranthene *	0.978	1.060	-8.4 *
Pyrene	1.022	1.098	-7.4
Butylbenzylphthalate	0.880	0.843	4.2
3,3'-Dichlorobenzidine	0.236	0.250	-5.9
Benzo(a)Anthracene	1.288	1.154	10.4
bis(2-Ethylhexyl)Phthalate	0.854	1.281	-50.0
Chrysene	1.220	1.177	3.5
Di-n-Octyl Phthalate *	4.432	3.788	14.5 *
Benzo(b)Fluoranthene	2.019	1.381	31.6
Benzo(k)Fluoranthene	1.910	1.340	29.8
Benzo(a)Pyrene *	1.819	1.476	18.9 *
Indeno(1,2,3-cd)Pyrene	1.080	1.075	0.5
Dibenz(a,h)Anthracene	0.750	1.025	-36.7
Benzo(g,h,i)Perylene	0.728	0.945	-29.8
Nitrobenzene-d5	0.384	0.447	-16.4
2-Fluorobiphenyl	1.301	1.301	0.0
Terphenyl-d14	1.007	0.936	7.1
Phenol-d5	1.119	1.418	-26.7
2-Fluorophenyl	0.987	1.202	-21.8
2,4,6-Tribromophenol	0.278	0.256	7.9

(1) Cannot be separated from Diphenylamine

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID (Standard): MAY24HK02 Date Analyzed: 05/24/89

Instrument ID: 4021 Time Analyzed: 1655

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	8710	9.82	19600	13.87	9690	19.10
	UPPER LIMIT	17420		39200		19380	
	LOWER LIMIT	4355		9800		4845	
	EPA SAMPLE NO.						
01	G101D	5300	9.80	14000	13.89	6980	19.12
02	G101S	5740	9.77	14700	13.87	7130	19.10
03	G103	5530	9.72	14400	13.79	7550	19.04
04	G104D	5360	9.84	14000	13.90	6900	19.12
05	G104S	5540	9.74	14100	13.85	7070	19.10
06	SBLKW	5660	9.84	15200	13.87	7530	19.10

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID (Standard): MAY24HK02 Date Analyzed: 05/24/89

Instrument ID: 4021 Time Analyzed: 1655

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	15400	22.17	11400	28.17	8440	34.07
	UPPER LIMIT	30800		22800		16880	
	LOWER LIMIT	7700		5700		4220	
	EPA SAMPLE NO.						
01	G101D	11200	22.25	6680	28.56	2900 *	34.59
02	G101S	11800	22.22	6710	28.27	2850 *	34.26
03	G103	12800	22.14	8470	28.22	4430	34.19
04	G104D	11200	22.27	7050	28.57	3750 *	34.61
05	G104S	11400	22.20	6870	28.24	3260 *	34.22
06	SBLKW	12700	22.20	8070	28.31	4190 *	34.27

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

Column used to flag internal standard area values with an asterisk

2A

WATER VOLATILE SURROGATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1790000000

b Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

	EPA SAMPLE NO.	S1 (TOL)#	S2 (BFB)#	S3 (DCE)#	OTHER	TOT OUT
01	G101D	100	93	100		0
02	G101S	104	97	105		0
03	G103	99	92	100		0
04	G103MS	82 *	97	103		1
05	G103MSD	100	100	103		0
06	G104D	99	95	104		0
07	G104S	95	93	97		0
08	VBLKW	102	94	98		0

		QC LIMITS
S1 (TOL)	= Toluene-d8	(88-110)
S2 (BFB)	= Bromofluorobenzene	(86-115)
S3 (DCE)	= 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogates diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ILLINOIS EPA Contract: 1790000000

Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Matrix Spike - EPA Sample No.: G103

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	51.1	102	61-145
Trichloroethene	50.0	0	52.3	105	71-120
Benzene	50.0	0	50.7	101	76-127
Toluene	50.0	0	48.7	97	76-125
Chlorobenzene	50.0	0	49.6	99	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.0	55.4	111	-8	14	61-145
Trichloroethene	50.0	49.3	99	6	14	71-120
Benzene	50.0	50.5	101	0	11	76-127
Toluene	50.0	49.3	99	-2	13	76-125
Chlorobenzene	50.0	50.2	100	-1	13	75-130

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID: A0511LC03 Lab Sample ID: D972819

Date Analyzed: 05/11/89 Time Analyzed: 1129

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

Instrument ID: 5100

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G101D	D972817	A0511LC05	1243
02	G101S	D972820	A0511LC07	1356
03	G103	D972816	A0511LC04	1209
04	G103MS	D972816MS	A0511LC10	1611
05	G103MSD	D971816MSD	A0511LC11	1645
06	G104D	D972818	A0511LC06	1317
07	G104S	D972821	A0511LC08	1438

COMMENTS:

5A

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID: A0511LC01 BFB Injection Date: 05/11/89

Instrument ID: 5100 BFB Injection Time: 1002

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.9
75	30.0 - 60.0% of mass 95	46.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	Greater than 50.0% of mass 95	76.9
175	5.0 - 9.0% of mass 174	5.9 (7.7)1
176	Greater than 95.0%, but less than 101.0% of mass 174	74.3 (96.6)1
177	5.0 - 9.0% of mass 176	4.6 (6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD50	051189STD	A0511LC02	05/11/89	1047
02	VBLKW	D972819	A0511LC03	05/11/89	1129
03	G103	D972816	A0511LC04	05/11/89	1209
04	G101D	D972817	A0511LC05	05/11/89	1243
05	G104D	D972818	A0511LC06	05/11/89	1317
06	G101S	D972820	A0511LC07	05/11/89	1356
07	G104S	D972821	A0511LC08	05/11/89	1438
08	G103MS	D972816MS	A0511LC10	05/11/89	1611
09	G103MSD	D971816MSD	A0511LC11	05/11/89	1645

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ILLINOIS EPA Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: D97281

Instrument ID: 5100 Calibration Date(s): 04/04/89 04/04/89

Matrix:(soil/water) _____ Level:(low/med) _____ Column:(pack/cap) WIDE

Min RRF for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = A0404LC11 RRF50 = A0404LC12
RRF100= A0404LC13 RRF150= A0404LC14 RRF200= A0404LC15

COMPOUND	RRF20	RRF50	RRF100	RRF150	RRF200	RRF	% RSD
Chloromethane #	0.932	0.859	1.145	1.324	1.264	1.105	18.4#
Bromomethane	0.497	0.586	0.815	0.590	0.796	0.657	21.5
Vinyl Chloride *	1.279	1.198	1.613	1.432	1.638	1.432	13.7*
Chloroethane	0.369	0.373	0.459	0.333	0.476	0.402	15.4
Methylene Chloride	1.698	1.700	1.720	1.727	1.956	1.760	6.3
Acetone	0.181	0.214	0.276	0.332	0.409	0.282	32.5
Carbon Disulfide	2.492	2.570	2.678	3.307	3.591	2.928	16.8
1,1-Dichloroethene *	1.100	1.064	1.045	0.995	1.106	1.062	4.3*
1,1-Dichloroethane #	4.139	3.458	4.512	4.789	4.028	4.185	12.1#
1,2-Dichloroethene (total)	1.538	1.611	1.708	1.841	2.258	1.791	15.9
Chloroform *	4.001	4.384	5.715	5.379	5.498	4.995	15.1*
1,2-Dichloroethane	0.347	0.299	0.357	0.337	0.354	0.339	6.9
2-Butanone	0.020	0.018	0.026	0.022	0.018	0.021	15.9
1,1,1-Trichloroethane	1.595	2.202	3.312	2.278	2.933	2.464	27.2
Carbon Tetrachloride	0.197	0.192	0.241	0.232	0.233	0.219	10.4
Vinyl Acetate	0.146	0.197	0.195	0.190	0.127	0.171	18.9
Bromodichloromethane	0.360	0.311	0.396	0.405	0.467	0.388	14.9
1,2-Dichloropropane *	0.448	0.363	0.448	0.452	0.483	0.439	10.2*
cis-1,3-Dichloropropene	0.215	0.148	0.255	0.271	0.328	0.243	27.6
Trichloroethene	0.379	0.317	0.383	0.382	0.404	0.373	8.8
Dibromochloromethane	0.288	0.232	0.325	0.352	0.389	0.317	19.0
1,1,2-Trichloroethane	0.356	0.264	0.369	0.380	0.420	0.358	16.1
Benzene	1.082	0.902	1.084	0.997	0.910	0.995	8.9
Trans-1,3-Dichloropropene	0.467	0.477	0.516	0.548	0.624	0.526	12.1
Bromoform #	0.356	0.296	0.410	0.426	0.470	0.392	17.2#
4-Methyl-2-Pentanone		0.417	0.405	0.370	0.384	0.315	56.2
2-Hexanone	0.207	0.158	0.267	0.270	0.239	0.228	20.5
Tetrachloroethene	0.334	0.252	0.348	0.344	0.355	0.327	13.0
1,1,2,2-Tetrachloroethane #	0.560	0.429	0.666	0.689	0.745	0.618	20.2#
Toluene *	1.535	1.212	1.595	1.532	1.568	1.488	10.5*
Chlorobenzene #	1.024	0.786	1.083	1.073	1.113	1.016	13.0#
Ethylbenzene *	0.534	0.436	0.557	0.576	0.591	0.539	11.4*
Styrene	0.952	0.788	1.104	1.205	1.149	1.040	16.3
Total Xylenes	0.587	0.483	0.659	0.718	0.678	0.625	14.8
Toluene-d8	0.724	0.564	0.751	0.718	0.728	0.697	10.8
BFB	0.525	0.416	0.553	0.558	0.589	0.528	12.6
1,2-Dichloroethane-d4	0.138	0.131	0.165	0.164	0.174	0.154	12.2

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Instrument ID: _____ Calibration date: 05/11/89 Time: 1047

Lab File ID: A0511LC02 Init. Calib. Date(s): 04/04/89 04/04/89

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %D for CCC(*) = 25.0%

COMPOUND		RRF	RRF50	%D	
Chloromethane	#	1.105	0.633	42.7	#
Bromomethane		0.657	0.476	27.6	
Vinyl Chloride	*	1.432	1.234	13.8	*
Chloroethane		0.402	0.226	43.8	
Methylene Chloride		1.760	1.053	40.2	
Acetone		0.282	0.202	28.4	
Carbon Disulfide		2.928	1.914	34.6	
1,1-Dichloroethene	*	1.062	0.829	21.9	*
1,1-Dichloroethane	#	4.185	3.608	13.8	#
1,2-Dichloroethene (total)		1.791	1.136	36.6	
Chloroform	*	4.995	4.030	19.3	*
1,2-Dichloroethane		0.339	0.539	-59.0	
2-Butanone		0.021	0.027	-28.6	
1,1,1-Trichloroethane		2.464	2.409	2.2	
Carbon Tetrachloride		0.219	0.362	-65.3	
Vinyl Acetate		0.171	0.258	-50.9	
Bromodichloromethane		0.388	0.510	-31.4	
1,2-Dichloropropane	*	0.439	0.357	18.7	*
cis-1,3-Dichloropropene		0.243	0.214	11.9	
Trichloroethene		0.373	0.399	-7.0	
Dibromochloromethane		0.317	0.409	-29.0	
1,1,2-Trichloroethane		0.358	0.324	9.5	
Benzene		0.995	0.913	8.2	
Trans-1,3-Dichloropropene		0.526	0.635	-20.7	
Bromoform	#	0.392	0.340	13.3	#
4-Methyl-2-Pentanone		0.394	0.232	41.1	
2-Hexanone		0.228	0.206	9.6	
Tetrachloroethene		0.327	0.425	-30.0	
1,1,2,2-Tetrachloroethane	#	0.618	0.538	12.9	#
Toluene	*	1.488	1.373	7.7	*
Chlorobenzene	#	1.016	0.999	1.7	#
Ethylbenzene	*	0.539	0.531	1.5	*
Styrene		1.040	1.027	1.3	
Total Xylenes		0.625	0.638	-2.1	
Toluene-d8		0.697	0.647	7.2	
BFB		0.528	0.528	0.0	
1,2-Dichloroethane-d4		0.154	0.238	-54.6	

8A

VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ILLINOIS EPA Contract: 1790000000

Lab Code: SPFLD Case No.: TAZWEL SAS No.: _____ SDG No.: D97281

Lab File ID (Standard): A0511LC02 Date Analyzed: 05/11/89

Instrument ID: _____ Time Analyzed: 1047

Matrix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) WIDE

		IS1(BCM) AREA #	RT	IS2(DFB) AREA #	RT	IS3(CBZ) AREA #	RT
	12 HOUR STD	10300	3.37	53600	5.15	55800	15.50
	UPPER LIMIT	20600		107200		111600	
	LOWER LIMIT	5150		26800		27900	
	EPA SAMPLE NO.						
01	G101D	9280	3.27	47900	4.90	54200	15.29
02	G101S	9530	3.37	49300	5.13	54800	15.45
03	G103	10100	3.38	50800	5.17	56200	15.50
04	G103MS	9810	3.35	52700	5.12	55800	15.47
05	G103MSD	9290	3.23	50500	4.88	52100	15.27
06	G104D	9320	3.23	48300	4.87	50900	15.24
07	G104S	9690	3.37	50000	5.10	55200	15.47
08	VBLKW	10100	3.40	53700	5.20	57800	15.54

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk