

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

92627
0000005A

EPA SAMPLE NO.

26SS01CP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020505201

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: 1050508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 24

Date Analyzed: 05/08/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000006A

26SS01CPRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505201

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: 1110508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 24

Date Analyzed: 05/08/92

Column: (pack/cap) CAF

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3	Chloromethane	14	IU
74-83-9	Bromomethane	14	IU
75-01-4	Vinyl Chloride	14	IU
75-00-3	Chloroethane	59	IX
75-09-2	Methylene Chloride	10	I
67-64-1	Acetone	63	I
75-15-0	Carbon Disulfide	7	IU
75-35-4	1,1-Dichloroethene	7	IU
75-34-3	1,1-Dichloroethane	7	IU
540-59-0	1,2-Dichloroethene (total)	34	I
67-66-3	Chloroform	3	BJ
107-06-2	1,2-Dichloroethane	11	I
78-93-3	2-Butanone	14	IU
71-55-6	1,1,1-Trichloroethane	7	IU
56-23-5	Carbon Tetrachloride	7	IU
108-05-4	Vinyl Acetate	14	IU
75-27-4	Bromodichloromethane	7	IU
78-87-5	1,2-Dichloropropane	7	IU
10061-01-5	cis-1,3-Dichloropropene	7	IU
79-01-6	Trichloroethene	4	IJ
124-48-1	Dibromochloromethane	7	IU
79-00-5	1,1,2-Trichloroethane	7	IU
71-43-2	Benzene	7	IU
10061-02-6	Trans-1,3-Dichloropropene	7	IU
75-25-2	Bromoform	7	IU
108-10-1	4-Methyl-2-Pentanone	14	IU
591-78-6	2-Hexanone	14	IU
127-18-4	Tetrachloroethene	63	I
79-34-5	1,1,2,2-Tetrachloroethane	7	IU
108-88-3	Toluene	7	IU
108-90-7	Chlorobenzene	7	IU
100-41-4	Ethylbenzene	4	IJ
100-42-5	Styrene	7	IU
1330-20-7	Total Xylenes	23	IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000007A

26SS01CPRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020505201

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: 1110508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 24

Date Analyzed: 05/08/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 106-67-2	1-PENTANOL, 2-ETHYL-4-METHYL	21.05	8.4	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO..

0000008A

26SS01CPRRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505201

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: 1010510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 24

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	13	IU
74-83-9	Bromomethane	13	IU
75-01-4	Vinyl Chloride	13	IU
75-00-3	Chloroethane	39	I
75-09-2	Methylene Chloride	7	IB
67-64-1	Acetone	110	IB
75-15-0	Carbon Disulfide	7	IU
75-35-4	1,1-Dichloroethene	7	IU
75-34-3	1,1-Dichloroethane	7	IU
540-59-0	1,2-Dichloroethene (total)	7	IX
67-66-3	Chloroform	2	IBJ
107-06-2	1,2-Dichloroethane	11	I
78-93-3	2-Butanone	22	I
71-55-6	1,1,1-Trichloroethane	7	IU
56-23-5	Carbon Tetrachloride	7	IU
108-05-4	Vinyl Acetate	13	IU
75-27-4	Bromodichloromethane	7	IU
78-87-5	1,2-Dichloropropane	7	IU
10061-01-5	cis-1,3-Dichloropropene	7	IU
79-01-6	Trichloroethene	2	IJ
124-48-1	Dibromochloromethane	7	IU
79-00-5	1,1,2-Trichloroethane	7	IU
71-43-2	Benzene	7	IU
10061-02-6	Trans-1,3-Dichloropropene	7	IU
75-25-2	Bromoform	7	IU
108-10-1	4-Methyl-2-Pentanone	7	IJ
591-78-6	2-Hexanone	13	IU
127-18-4	Tetrachloroethene	7	IU
79-34-5	1,1,2,2-Tetrachloroethane	7	IU
108-88-3	Toluene	3	IJ
108-90-7	Chlorobenzene	7	IU
100-41-4	Ethylbenzene	3	IJ
100-42-5	Styrene	7	IU
1330-20-7	Total Xylenes	14	IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000009A

26SS01CPRRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505201

Sample wt/vol: 4.9 (g/mL) G

Lab File ID: 1010510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 24

Date Analyzed: 05/11/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000010A

Lab Name: IT PITTSBURGH

Contract: 303486

26SS01CPD

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505202

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: 1070508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 15

Date Analyzed: 05/08/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	12	IU
74-83-9	Bromomethane	12	IU
75-01-4	Vinyl Chloride	12	IU
75-00-3	Chloroethane	63	IX
75-09-2	Methylene Chloride	10	I
67-64-1	Acetone	210	I
75-15-0	Carbon Disulfide	6	IU
75-35-4	1,1-Dichloroethene	6	IU
75-34-3	1,1-Dichloroethane	6	IU
540-59-0	1,2-Dichloroethene (total)	13	I
67-66-3	Chloroform	2	IBJ
107-06-2	1,2-Dichloroethane	12	I
78-93-3	2-Butanone	12	IU
71-55-6	1,1,1-Trichloroethane	6	IU
56-23-5	Carbon Tetrachloride	6	IU
108-05-4	Vinyl Acetate	12	IU
75-27-4	Bromodichloromethane	6	IU
78-87-5	1,2-Dichloropropane	6	IU
10061-01-5	cis-1,3-Dichloropropene	6	IU
79-01-6	Trichloroethene	6	IU
124-48-1	Dibromochloromethane	6	IU
79-00-5	1,1,2-Trichloroethane	6	IU
71-43-2	Benzene	6	IU
10061-02-6	Trans-1,3-Dichloropropene	6	IU
75-25-2	Bromoform	6	IU
108-10-1	4-Methyl-2-Pentanone	12	IU
591-78-6	2-Hexanone	12	IU
127-18-4	Tetrachloroethene	6	IU
79-34-5	1,1,2,2-Tetrachloroethane	6	IU
108-88-3	Toluene	6	IU
108-90-7	Chlorobenzene	6	IU
100-41-4	Ethylbenzene	4	IJ
100-42-5	Styrene	6	IU
1330-20-7	Total Xylenes	21	IX

05/21/92

AR307206

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000011A

26SS01CPD

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20505202

Sample wt/vol: 4.8 (g/mL) G Lab File ID: 1070508D

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 15 Date Analyzed: 05/08/92

Column (pack/cap) CAP Dilution Factor: 1.00

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

Number TICs found: 2

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	20.05	12	J
2.	UNKNOWN	21.02	11	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000012A

26SS01CPDRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505202

Sample wt/vol: 4.8 (g/mL) G

Lab File ID: 1090508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 15

Date Analyzed: 05/08/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q
74-87-3	Chloromethane	12	IU	
74-83-9	Bromomethane	12	IU	
75-01-4	Vinyl Chloride	12	IU	
75-00-3	Chloroethane	15 12	IU	15
75-09-2	Methylene Chloride	3	IJ	
67-64-1	Acetone	180	I	
75-15-0	Carbon Disulfide	6	IU	
75-35-4	1,1-Dichloroethene	6	IU	
75-34-3	1,1-Dichloroethane	6	IU	
540-59-0	1,2-Dichloroethene (total)	11	IX	
67-66-3	Chloroform	2	I BJ	
107-06-2	1,2-Dichloroethane	12	I	
78-93-3	2-Butanone	17	I	
71-55-6	1,1,1-Trichloroethane	6	IU	
56-23-5	Carbon Tetrachloride	6	IU	
108-05-4	Vinyl Acetate	12	IU	
75-27-4	Bromodichloromethane	6	IU	
78-87-5	1,2-Dichloropropane	6	IU	
10061-01-5	cis-1,3-Dichloropropene	6	IU	
79-01-6	Trichloroethene	3	IJ	
124-48-1	Dibromochloromethane	6	IU	
79-00-5	1,1,2-Trichloroethane	6	IU	
71-43-2	Benzene	6	IU	
10061-02-6	Trans-1,3-Dichloropropene	6	IU	
75-25-2	Bromoform	6	IU	
108-10-1	4-Methyl-2-Pentanone	5	I JX	
591-78-6	2-Hexanone	12	IU	
127-18-4	Tetrachloroethene	1	IJ	
79-34-5	1,1,2,2-Tetrachloroethane	6	IU	
108-88-3	Toluene	2	IJ	
108-90-7	Chlorobenzene	6	IU	
100-41-4	Ethylbenzene	7	I	
100-42-5	Styrene	6	IU	
1330-20-7	Total Xylenes	37	IX	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO..

0000013A

265501CPDRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505202

Sample wt/vol: 4.8 (g/mL) 6

Lab File ID: 1090508D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 15

Date Analyzed: 05/08/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

EPA SAMPLE NO.

0000014A

265501CPDRRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505202

Sample wt/vol: 4.8 (g/mL) 6

Lab File ID: 1030510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 15

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	IU
74-83-9	Bromomethane	12	IU
75-01-4	Vinyl Chloride	12	IU
75-00-3	Chloroethane	83	I
75-09-2	Methylene Chloride	8	IB
67-64-1	Acetone	180	IB
75-15-0	Carbon Disulfide	6	IU
75-35-4	1,1-Dichloroethene	6	IU
75-34-3	1,1-Dichloroethane	6	IU
540-59-0	1,2-Dichloroethene (total)	8	I
67-66-3	Chloroform	2	IBJ
107-06-2	1,2-Dichloroethane	20	I
78-93-3	2-Butanone	38	I
71-55-6	1,1,1-Trichloroethane	6	IU
56-23-5	Carbon Tetrachloride	6	IU
108-05-4	Vinyl Acetate	12	IU
75-27-4	Bromodichloromethane	6	IU
78-87-5	1,2-Dichloropropane	6	IU
10061-01-5	cis-1,3-Dichloropropene	6	IU
79-01-6	Trichloroethene	6	IU
124-48-1	Dibromochloromethane	6	IU
79-00-5	1,1,2-Trichloroethane	6	IU
71-43-2	Benzene	6	IU
10061-02-6	Trans-1,3-Dichloropropene	6	IU
75-25-2	Bromoform	6	IU
108-10-1	4-Methyl-2-Pentanone	10	IJ
591-78-6	2-Hexanone	12	IU
127-18-4	Tetrachloroethene	6	IU
79-34-5	1,1,2,2-Tetrachloroethane	6	IU
108-88-3	Toluene	3	IJ
108-90-7	Chlorobenzene	6	IU
100-41-4	Ethylbenzene	5	IJ
100-42-5	Styrene	6	IU
1330-20-7	Total Xylenes	25	I

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000015A

26SS01CPDRRE

Lab Name: IT PITTSBURGH Contract: 303486
Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
Matrix: (soil/water) SOIL Lab Sample ID: 020505202
Sample wt/vol: 4.8 (g/mL) G Lab File ID: 1030510D
Level: (low/med) LOW Date Received: 05/07/92
% Moisture: not dec. 15 Date Analyzed: 05/11/92
Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

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

AR307211

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000018A

26SS12SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505203

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1050510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 31

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	14	IU
74-83-9	Bromomethane	14	IU
75-01-4	Vinyl Chloride	14	IU
75-00-3	Chloroethane	14	IU
75-09-2	Methylene Chloride	7	IU
67-64-1	Acetone	14	IU
75-15-0	Carbon Disulfide	3	IJ
75-35-4	1,1-Dichloroethene	7	IU
75-34-3	1,1-Dichloroethane	7	IU
540-59-0	1,2-Dichloroethene (total)	7	IU
67-66-3	Chloroform	2	IBJ
107-06-2	1,2-Dichloroethane	7	IU
78-93-3	2-Butanone	14	IU
71-55-6	1,1,1-Trichloroethane	7	IU
56-23-5	Carbon Tetrachloride	7	IU
108-05-4	Vinyl Acetate	14	IU
75-27-4	Bromodichloromethane	7	IU
78-87-5	1,2-Dichloropropane	7	IU
10061-01-5	cis-1,3-Dichloropropene	7	IU
79-01-6	Trichloroethene	7	IU
124-48-1	Dibromochloromethane	7	IU
79-00-5	1,1,2-Trichloroethane	7	IU
71-43-2	Benzene	7	IU
10061-02-6	Trans-1,3-Dichloropropene	7	IU
75-25-2	Bromoform	7	IU
108-10-1	4-Methyl-2-Pentanone	14	IU
591-78-6	2-Hexanone	14	IU
127-18-4	Tetrachloroethene	7	IU
79-34-5	1,1,2,2-Tetrachloroethane	7	IU
108-88-3	Toluene	7	IU
108-90-7	Chlorobenzene	7	IU
100-41-4	Ethylbenzene	7	IU
100-42-5	Styrene	7	IU
1330-20-7	Total Xylenes	7	IU

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

0000019A

26SS12SAP

Lab Name: IT PITTSBURGH Contract: 303486
Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
Matrix: (soil/water) SOIL Lab Sample ID: Q20505203
Sample wt/vol: 5.3 (g/mL) G Lab File ID: 10505100
Level: (low/med) LOW Date Received: 05/07/92
% Moisture: not dec. 31 Date Analyzed: 05/11/92
Column (pack/cap) CAP Dilution Factor: 1.00

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

Number TICs found: 0

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000020A

26SS17SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505204

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

Lab File ID: 1060510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 25

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q
74-87-3	Chloromethane	13	IU	
74-83-9	Bromomethane	13	IU	
75-01-4	Vinyl Chloride	13	IU	
75-00-3	Chloroethane	13	IU	
75-09-2	Methylene Chloride	7	IU	
67-64-1	Acetone	13	IU	
75-15-0	Carbon Disulfide	7	IU	
75-35-4	1,1-Dichloroethene	7	IU	
75-34-3	1,1-Dichloroethane	7	IU	
540-59-0	1,2-Dichloroethene (total)	7	IU	
67-66-3	Chloroform	2	IBJ	
107-06-2	1,2-Dichloroethane	7	IU	
78-93-3	2-Butanone	13	IU	
71-55-6	1,1,1-Trichloroethane	7	IU	
56-23-5	Carbon Tetrachloride	7	IU	
108-05-4	Vinyl Acetate	13	IU	
75-27-4	Bromodichloromethane	7	IU	
78-87-5	1,2-Dichloropropane	7	IU	
10061-01-5	cis-1,3-Dichloropropene	7	IU	
79-01-6	Trichloroethene	7	IU	
124-48-1	Dibromochloromethane	7	IU	
79-00-5	1,1,2-Trichloroethane	7	IU	
71-43-2	Benzene	7	IU	
10061-02-6	Trans-1,3-Dichloropropene	7	IU	
75-25-2	Bromoform	7	IU	
108-10-1	4-Methyl-2-Pentanone	13	IU	
591-78-6	2-Hexanone	13	IU	
127-18-4	Tetrachloroethene	7	IU	
79-34-5	1,1,2,2-Tetrachloroethane	7	IU	
108-88-3	Toluene	7	IU	
108-90-7	Chlorobenzene	7	IU	
100-41-4	Ethylbenzene	7	IU	
100-42-5	Styrene	7	IU	
1330-20-7	Total Xylenes	7	IU	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000021A

26SS17SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020505204

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

Lab File ID: 1060510D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 25

Date Analyzed: 05/11/92

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

25
EPA SAMPLE NO..

ITW27SS02CP

Name: ITAS-KNOXVILLE Contract: _____

Lab Code: ITSTU Case No.: 51357 SAS No.: _____ SDG No.: ITW27S

Matrix: (soil/water) SOIL Lab Sample ID: K2000

Sample wt/vol: 1.0 (g/mL) G Lab File ID: K2000R2

Level: (low/med) LOW Date Received: 05/08/92

% Moisture: not dec. 42 Date Analyzed: 05/11/92

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

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

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	86	U
74-83-9-----	Bromomethane	86	U
75-01-4-----	Vinyl Chloride	1300	
75-00-3-----	Chloroethane	86	U
75-09-2-----	Methylene Chloride	29	BJ
67-64-1-----	Acetone	67	J
75-15-0-----	Carbon Disulfide	43	U
75-35-4-----	1,1-Dichloroethene	28	J
75-34-3-----	1,1-Dichloroethane	51	
540-59-0-----	1,2-Dichloroethene (total)	120	
67-66-3-----	Chloroform	43	U
107-06-2-----	1,2-Dichloroethane	110	
78-93-3-----	2-Butanone	86	U
71-55-6-----	1,1,1-Trichloroethane	43	U
56-23-5-----	Carbon Tetrachloride	43	U
108-05-4-----	Vinyl Acetate	86	U
75-27-4-----	Bromodichloromethane	43	U
78-87-5-----	1,2-Dichloropropane	43	U
10061-01-5-----	cis-1,3-Dichloropropene	43	U
79-01-6-----	Trichloroethene	43	U
124-48-1-----	Dibromochloromethane	43	U
79-00-5-----	1,1,2-Trichloroethane	16	J
71-43-2-----	Benzene	43	U
10061-02-6-----	Trans-1,3-Dichloropropene	43	U
75-25-2-----	Bromoform	43	U
108-10-1-----	4-Methyl-2-Pentanone	86	U
591-78-6-----	2-Hexanone	86	U
127-18-4-----	Tetrachloroethene	43	U
79-34-5-----	1,1,2,2-Tetrachloroethane	43	U
108-88-3-----	Toluene	43	U
108-90-7-----	Chlorobenzene	43	U
100-41-4-----	Ethylbenzene	43	U
100-42-5-----	Styrene	43	U
1330-20-7-----	Xylenes(total)	43	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO..

ITW27SS02CP

Name: ITAS-KNOXVILLE Contract: _____
Lab Code: ITSTU Case No.: 51357 SAS No.: _____ SDG No.: ITW27S
Matrix: (soil/water) SOIL Lab Sample ID: K2000
Sample wt/vol: 1.0 (g/mL) G Lab File ID: K2000R2
Level: (low/med) LOW Date Received: 05/08/92
% Moisture: not dec. 42 Date Analyzed: 05/11/92
Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO..

Name: ITAS-KNOXVILLE Contract: _____

ITW27SS02CPD

Lab Code: ITSTU Case No.: 51357 SAS No.: _____ SDG No.: ITW27SMatrix: (soil/water) SOIL Lab Sample ID: K2001Sample wt/vol: 1.0 (g/mL) G Lab File ID: K2001Level: (low/med) LOW Date Received: 05/08/92% Moisture: not dec. 46 Date Analyzed: 05/11/92Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

74-87-3-----	Chloromethane	93	U
74-83-9-----	Bromomethane	93	U
75-01-4-----	Vinyl Chloride	770	
75-00-3-----	Chloroethane	93	U
75-09-2-----	Methylene Chloride	53	B
67-64-1-----	Acetone	100	
75-15-0-----	Carbon Disulfide	46	U
75-35-4-----	1,1-Dichloroethene	58	
75-34-3-----	1,1-Dichloroethane	78	
540-59-0-----	1,2-Dichloroethene (total)	82	
67-66-3-----	Chloroform	13	J
107-06-2-----	1,2-Dichloroethane	160	
78-93-3-----	2-Butanone	93	U
71-55-6-----	1,1,1-Trichloroethane	46	U
56-23-5-----	Carbon Tetrachloride	46	U
108-05-4-----	Vinyl Acetate	93	U
75-27-4-----	Bromodichloromethane	46	U
78-87-5-----	1,2-Dichloropropane	46	U
10061-01-5-----	cis-1,3-Dichloropropene	46	U
79-01-6-----	Trichloroethene	46	U
124-48-1-----	Dibromochloromethane	46	U
79-00-5-----	1,1,2-Trichloroethane	12	J
71-43-2-----	Benzene	46	U
10061-02-6-----	Trans-1,3-Dichloropropene	46	U
75-25-2-----	Bromoform	46	U
108-10-1-----	4-Methyl-2-Pentanone	93	U
591-78-6-----	2-Hexanone	93	U
127-18-4-----	Tetrachloroethene	46	U
79-34-5-----	1,1,2,2-Tetrachloroethane	46	U
108-88-3-----	Toluene	46	U
108-90-7-----	Chlorobenzene	46	U
100-41-4-----	Ethylbenzene	46	U
100-42-5-----	Styrene	46	U
1330-20-7-----	Xylenes(total)	46	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

57
EPA SAMPLE NO..

ITW27SS02CPD

Name: ITAS-KNOXVILLE Contract: _____
Lab Code: ITSTU Case No.: 51357 SAS No.: _____ SDG No.: ITW27S
Matrix: (soil/water) SOIL Lab Sample ID: K2001
Sample wt/vol: 1.0 (g/mL) G Lab File ID: K2001
Level: (low/med) LOW Date Received: 05/08/92
% Moisture: not dec. 46 Date Analyzed: 05/11/92
Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000022A

279903CF

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20506701
 Sample wt/vol: 4.7 (g/mL) G Lab File ID: 1130510D
 Level: (low/med) LOW Date Received: 05/08/92
 % Moisture: not dec. 35 Date Analyzed: 05/11/92
 Column: (pack/cap) CAP Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	16	IU
74-83-9	Bromomethane	16	IU
75-01-4	Vinyl Chloride	320	I
75-00-3	Chloroethane	49	I
75-09-2	Methylene Chloride	9	IB
67-64-1	Acetone	280	IB
75-15-0	Carbon Disulfide	8	IU
75-35-4	1,1-Dichloroethene	9	I
75-34-3	1,1-Dichloroethane	35	I
540-59-0	1,2-Dichloroethene (total)	40	IX
67-66-3	Chloroform	5	IBJ
107-06-2	1,2-Dichloroethane	75	I
78-93-3	2-Butanone	16	IU
71-55-6	1,1,1-Trichloroethane	8	IU
56-23-5	Carbon Tetrachloride	8	IU
108-05-4	Vinyl Acetate	16	IU
75-27-4	Bromodichloromethane	8	IU
78-87-5	1,2-Dichloropropane	8	IU
10061-01-5	cis-1,3-Dichloropropene	8	IU
79-01-6	Trichloroethene	4	IJ
124-48-1	Dibromochloromethane	8	IU
79-00-5	1,1,2-Trichloroethane	27	I
71-43-2	Benzene	2	IJ
10061-02-6	Trans-1,3-Dichloropropene	8	IU
75-25-2	Bromoform	8	IU
108-10-1	4-Methyl-2-Pentanone	16	IU
591-78-6	2-Hexanone	16	IU
127-18-4	Tetrachloroethene	8	IU
79-34-5	1,1,2,2-Tetrachloroethane	8	IU
108-88-3	Toluene	4	IJ
108-90-7	Chlorobenzene	8	IU
100-41-4	Ethylbenzene	15	I
100-42-5	Styrene	8	IU
1330-20-7	Total Xylenes	81	IX

WKS 5/22/92

AR307220

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUND **0000023A**

EPA SAMPLE NO.

27SS03CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: 020506701

Sample wt/vol: 4.7 (g/mL) G Lab File ID: 1130510D

Level: (low/med) LOW Date Received: 05/08/92

% Moisture: not dec. 35 Date Analyzed: 05/11/92

Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 0

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

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

AR307221

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000024A

27SS03CPRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506701

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: 1010513D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 35

Date Analyzed: 05/13/92

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	17	IU
74-83-9	Bromomethane	17	IU
75-01-4	Vinyl Chloride	180	IX
75-00-3	Chloroethane	17	IU
75-09-2	Methylene Chloride	5	IBJ
67-64-1	Acetone	90	IX
75-15-0	Carbon Disulfide	8	IU
75-35-4	1,1-Dichloroethene	4	IJ
75-34-3	1,1-Dichloroethane	8	IU
540-59-0	1,2-Dichloroethene (total)	24	IX
67-66-3	Chloroform	4	IBJ
107-06-2	1,2-Dichloroethane	32	I
78-93-3	2-Butanone	17	IU
71-55-6	1,1,1-Trichloroethane	8	IU
56-23-5	Carbon Tetrachloride	8	IU
108-05-4	Vinyl Acetate	17	IU
75-27-4	Bromodichloromethane	8	IU
78-87-5	1,2-Dichloropropane	8	IU
10061-01-5	cis-1,3-Dichloropropene	8	IU
79-01-6	Trichloroethene	8	IU
124-48-1	Dibromochloromethane	8	IU
79-00-5	1,1,2-Trichloroethane	8	IJX
71-43-2	Benzene	8	IU
10061-02-6	Trans-1,3-Dichloropropene	8	IU
75-25-2	Bromoform	8	IU
108-10-1	4-Methyl-2-Pentanone	17	IU
591-78-6	2-Hexanone	17	IU
127-18-4	Tetrachloroethene	8	IU
79-34-5	1,1,2,2-Tetrachloroethane	8	IU
108-88-3	Toluene	8	IU
108-90-7	Chlorobenzene	8	IU
100-41-4	Ethylbenzene	3	IJ
100-42-5	Styrene	8	IU
1330-20-7	Total Xylenes	19	IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO..

0000025A

275503CPRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020506701

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: 1010513D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 35

Date Analyzed: 05/13/92

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 0

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

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

AR307223

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000028A

27SS09CP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506702

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: 1010512K

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/12/92

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	19	IU
74-83-9	Bromomethane	19	IU
75-01-4	Vinyl Chloride	19	IU
75-00-3	Chloroethane	160	I
75-09-2	Methylene Chloride	16	IB
67-64-1	Acetone	250	I
75-15-0	Carbon Disulfide	5	IJ
75-35-4	1,1-Dichloroethene	10	IU
75-34-3	1,1-Dichloroethane	10	IU
540-59-0	1,2-Dichloroethene (total)	6	IJX
67-66-3	Chloroform	3	IBJ
107-06-2	1,2-Dichloroethane	28	I
78-93-3	2-Butanone	38	I
71-55-6	1,1,1-Trichloroethane	10	IU
56-23-5	Carbon Tetrachloride	10	IU
108-05-4	Vinyl Acetate	19	IU
75-27-4	Bromodichloromethane	10	IU
78-87-5	1,2-Dichloropropane	10	IU
10061-01-5	cis-1,3-Dichloropropene	10	IU
79-01-6	Trichloroethene	11	I
124-48-1	Dibromochloromethane	10	IU
79-00-5	1,1,2-Trichloroethane	10	IU
71-43-2	Benzene	10	IU
10061-02-6	Trans-1,3-Dichloropropene	10	IU
75-25-2	Bromoform	10	IU
108-10-1	4-Methyl-2-Pentanone	19	IU
591-78-6	2-Hexanone	19	IU
127-18-4	Tetrachloroethene	10	IU
79-34-5	1,1,2,2-Tetrachloroethane	10	IU
108-88-3	Toluene	20	I
108-90-7	Chlorobenzene	10	IU
100-41-4	Ethylbenzene	110	I
100-42-5	Styrene	10	IU
1330-20-7	Total Xylenes	600	IEX

FORM I VOA

1/87 Rev.

KS 5/21/92

AR307224

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000029A

27SS09CP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020506702

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: 1010512K

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/12/92

Column (pack/cap) CAP

Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	20.64	110	J

AR307225

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.:

0000030A

27SS09CPRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q2050670E

Sample wt/vol: 4.6 (g/mL) G

Lab File ID: 1040512K

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/12/92

Column: (pack/cap) CAP

Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	19	IU
74-83-9	Bromomethane	19	IU
75-01-4	Vinyl Chloride	19	IU
75-00-3	Chloroethane	110	I
75-09-2	Methylene Chloride	14	IB
67-64-1	Acetone	160	I
75-15-0	Carbon Disulfide	3	IJ
75-35-4	1,1-Dichloroethene	10	IU
75-34-3	1,1-Dichloroethane	10	IU
540-59-0	1,2-Dichloroethene (total)	3	IJX
67-66-3	Chloroform	4	IBJ
107-06-2	1,2-Dichloroethane	19	I
78-93-3	2-Butanone	26	I
71-55-6	1,1,1-Trichloroethane	10	IU
56-23-5	Carbon Tetrachloride	10	IU
108-05-4	Vinyl Acetate	19	IU
75-27-4	Bromodichloromethane	10	IU
78-87-5	1,2-Dichloropropane	10	IU
10061-01-5	cis-1,3-Dichloropropene	10	IU
79-01-6	Trichloroethene	5	IJ
124-48-1	Dibromochloromethane	10	IU
79-00-5	1,1,2-Trichloroethane	10	IU
71-43-2	Benzene	10	IU
10061-02-6	Trans-1,3-Dichloropropene	10	IU
75-25-2	Bromoform	10	IU
108-10-1	4-Methyl-2-Pentanone	19	IU
591-78-6	2-Hexanone	19	IU
127-18-4	Tetrachloroethene	10	IU
79-34-5	1,1,2,2-Tetrachloroethane	10	IU
108-88-3	Toluene	6	IJ
108-90-7	Chlorobenzene	10	IU
100-41-4	Ethylbenzene	25	I
100-42-5	Styrene	10	IU
1330-20-7	Total Xylenes	150	IX

AR307226

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000031A

275509CPRE

Lab Name: IT PITTSBURGH Contract: 303486
Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
Matrix: (soil/water) SOIL Lab Sample ID: Q20506702
Sample wt/vol: 4.6 (g/mL) G Lab File ID: 1040512K
Level: (low/med) LOW Date Received: 05/08/92
% Moisture: not dec. 44 Date Analyzed: 05/12/92
Column (pack/cap) CAP Dilution Factor: 1.0

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	20.65	27	J

AR307227

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000032A

27SS09CPD

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506703

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1090510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	Q
74-87-3	Chloromethane	17 IU
74-83-9	Bromomethane	17 IU
75-01-4	Vinyl Chloride	17 IU
75-00-3	Chloroethane	140 I
75-09-2	Methylene Chloride	13 IB
67-64-1	Acetone	160 IB
75-15-0	Carbon Disulfide	8 IU
75-35-4	1,1-Dichloroethene	8 IU
75-34-3	1,1-Dichloroethane	8 IU
540-59-0	1,2-Dichloroethene (total)	6 IJX
67-66-3	Chloroform	3 IBJ\
107-06-2	1,2-Dichloroethane	16 I
78-93-3	2-Butanone	42 I
71-55-6	1,1,1-Trichloroethane	8 IU
56-23-5	Carbon Tetrachloride	8 IU
108-05-4	Vinyl Acetate	17 IU
75-27-4	Bromodichloromethane	8 IU
78-87-5	1,2-Dichloropropane	8 IU
10061-01-5	cis-1,3-Dichloropropene	8 IU
79-01-6	Trichloroethene	5 IJ
124-48-1	Dibromochloromethane	8 IU
79-00-5	1,1,2-Trichloroethane	8 IU
71-43-2	Benzene	8 IU
10061-02-6	Trans-1,3-Dichloropropene	8 IU
75-25-2	Bromoform	8 IU
108-10-1	4-Methyl-2-Pentanone	13 IJ
591-78-6	2-Hexanone	4 IJ
127-18-4	Tetrachloroethene	8 IU
79-34-5	1,1,2,2-Tetrachloroethane	8 IU
108-88-3	Toluene	6 IJ
108-90-7	Chlorobenzene	8 IU
100-41-4	Ethylbenzene	24 I
100-42-5	Styrene	8 IU
1330-20-7	Total Xylenes	130 IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000033A

27SS09CPD

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: 020506703

Sample wt/vol: 5.3 (g/mL) G Lab File ID: 1090510D

Level: (low/med) LOW Date Received: 05/08/92

% Moisture: not dec. 44 Date Analyzed: 05/11/92

Column (pack/cap) CAP Dilution Factor: 1.00

Number TICs found: 2

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	20.64	25	IJ
2.	UNKNOWN	20.90	7.1	IJ

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000034A

27SS09CPDRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITFA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506703

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: 1110510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	18	IU
74-83-9	Bromomethane	18	IU
75-01-4	Vinyl Chloride	18	IU
75-00-3	Chloroethane	330	I
75-09-2	Methylene Chloride	24	IB
67-64-1	Acetone	320	IB
75-15-0	Carbon Disulfide	9	IU
75-35-4	1,1-Dichloroethene	9	IU
75-34-3	1,1-Dichloroethane	9	IU
540-59-0	1,2-Dichloroethene (total)	2	IJ
67-66-3	Chloroform	4	IBJ
107-06-2	1,2-Dichloroethane	30	I
78-93-3	2-Butanone	58	I
71-55-6	1,1,1-Trichloroethane	9	IU
56-23-5	Carbon Tetrachloride	9	IU
108-05-4	Vinyl Acetate	18	IU
75-27-4	Bromodichloromethane	9	IU
78-87-5	1,2-Dichloropropane	9	IU
10061-01-5	cis-1,3-Dichloropropene	9	IU
79-01-6	Trichloroethene	6	IJ
124-48-1	Dibromochloromethane	9	IU
79-00-5	1,1,2-Trichloroethane	9	IU
71-43-2	Benzene	9	IU
10061-02-6	Trans-1,3-Dichloropropene	9	IU
75-25-2	Bromoform	9	IU
108-10-1	4-Methyl-2-Pentanone	16	IJ
591-78-6	2-Hexanone	18	IU
127-18-4	Tetrachloroethene	9	IU
79-34-5	1,1,2,2-Tetrachloroethane	9	IU
108-88-3	Toluene	6	IJ
108-90-7	Chlorobenzene	9	IU
100-41-4	Ethylbenzene	22	I
100-42-5	Styrene	9	IU
1330-20-7	Total Xylenes	120	IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000035A

27SS09CPDRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506703

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: 1110510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/11/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	20.60	15	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000036A

27SS09CPDRRE

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020506703

Sample wt/vol: 5.1 (g/mL) G

Lab File ID: 1150510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 44

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	18	IU
74-83-9	Bromomethane	18	IU
75-01-4	Vinyl Chloride	18	IU
75-00-3	Chloroethane	130	I
75-09-2	Methylene Chloride	13	IB
67-64-1	Acetone	170	IB
75-15-0	Carbon Disulfide	2	IJ
75-35-4	1,1-Dichloroethene	9	IU
75-34-3	1,1-Dichloroethane	9	IU
540-59-0	1,2-Dichloroethene (total)	9	IU
67-66-3	Chloroform	4	IBJ
107-06-2	1,2-Dichloroethane	9	IU
78-93-3	2-Butanone	18	IU
71-55-6	1,1,1-Trichloroethane	9	IU
56-23-5	Carbon Tetrachloride	9	IU
108-05-4	Vinyl Acetate	18	IU
75-27-4	Bromodichloromethane	9	IU
78-87-5	1,2-Dichloropropane	9	IU
10061-01-5	cis-1,3-Dichloropropene	9	IU
79-01-6	Trichloroethene	2	IJ
124-48-1	Dibromochloromethane	9	IU
79-00-5	1,1,2-Trichloroethane	9	IU
71-43-2	Benzene	9	IU
10061-02-6	Trans-1,3-Dichloropropene	9	IU
75-25-2	Bromoform	9	IU
108-10-1	4-Methyl-2-Pentanone	18	IU
591-78-6	2-Hexanone	18	IU
127-18-4	Tetrachloroethene	9	IU
79-34-5	1,1,2,2-Tetrachloroethane	9	IU
108-88-3	Toluene	3	IJ
108-90-7	Chlorobenzene	9	IU
100-41-4	Ethylbenzene	12	I
100-42-5	Styrene	9	IU
1330-20-7	Total Xylenes	71	IX

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000037A

27SS09CPDRRE

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20506703
 Sample wt/vol: 5.1 (g/mL) 6 Lab File ID: 11505100
 Level: (low/med) LOW Date Received: 05/08/92
 % Moisture: not dec. 44 Date Analyzed: 05/11/92
 Column (pack/cap) CAP Dilution Factor: 1.00

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

Number TICs found: 1

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	20.60	22	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000038A

27SS12SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506704

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1080510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 16

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q
74-87-3	Chloromethane	11	IU	
74-83-9	Bromomethane	11	IU	
75-01-4	Vinyl Chloride	11	IU	
75-00-3	Chloroethane	11	IU	
75-09-2	Methylene Chloride	2	IBJ	
67-64-1	Acetone	29	IB	
75-15-0	Carbon Disulfide	6	IU	
75-35-4	1,1-Dichloroethene	6	IU	
75-34-3	1,1-Dichloroethane	6	IU	
540-59-0	1,2-Dichloroethene (total)	6	IU	
67-66-3	Chloroform	1	IBJ	
107-06-2	1,2-Dichloroethane	6	IU	
78-93-3	2-Butanone	11	IU	
71-55-6	1,1,1-Trichloroethane	6	IU	
56-23-5	Carbon Tetrachloride	6	IU	
108-05-4	Vinyl Acetate	11	IU	
75-27-4	Bromodichloromethane	6	IU	
78-87-5	1,2-Dichloropropane	6	IU	
10061-01-5	cis-1,3-Dichloropropene	6	IU	
79-01-6	Trichloroethene	6	IU	
124-48-1	Dibromochloromethane	6	IU	
79-00-5	1,1,2-Trichloroethane	6	IU	
71-43-2	Benzene	6	IU	
10061-02-6	Trans-1,3-Dichloropropene	6	IU	
75-25-2	Bromoform	6	IU	
108-10-1	4-Methyl-2-Pentanone	11	IU	
591-78-6	2-Hexanone	1	IJ	
127-18-4	Tetrachloroethene	6	IU	
79-34-5	1,1,2,2-Tetrachloroethane	6	IU	
108-88-3	Toluene	6	IU	
108-90-7	Chlorobenzene	6	IU	
100-41-4	Ethylbenzene	6	IU	
100-42-5	Styrene	6	IU	
1330-20-7	Total Xylenes	6	IU	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000039A

27SS12SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506704

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1080510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 16

Date Analyzed: 05/11/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. .

0000040A

27SS17SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506705

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1070510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 24

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	Chloromethane	12	IU
74-83-9	Bromomethane	12	IU
75-01-4	Vinyl Chloride	12	IU
75-00-3	Chloroethane	12	IU
75-09-2	Methylene Chloride	2	IBJ
67-64-1	Acetone	12	IU
75-15-0	Carbon Disulfide	6	IU
75-35-4	1,1-Dichloroethene	6	IU
75-34-3	1,1-Dichloroethane	6	IU
540-59-0	1,2-Dichloroethene (total)	6	IU
67-66-3	Chloroform	1	IBJ
107-06-2	1,2-Dichloroethane	6	IU
78-93-3	2-Butanone	12	IU
71-55-6	1,1,1-Trichloroethane	6	IU
56-23-5	Carbon Tetrachloride	6	IU
108-05-4	Vinyl Acetate	12	IU
75-27-4	Bromodichloromethane	6	IU
78-87-5	1,2-Dichloropropane	6	IU
10061-01-5	cis-1,3-Dichloropropene	6	IU
79-01-6	Trichloroethene	6	IU
124-48-1	Dibromochloromethane	6	IU
79-00-5	1,1,2-Trichloroethane	6	IU
71-43-2	Benzene	6	IU
10061-02-6	Trans-1,3-Dichloropropene	6	IU
75-25-2	Bromoform	6	IU
108-10-1	4-Methyl-2-Pentanone	12	IU
591-78-6	2-Hexanone	12	IU
127-18-4	Tetrachloroethene	6	IU
79-34-5	1,1,2,2-Tetrachloroethane	6	IU
108-88-3	Toluene	6	IU
108-90-7	Chlorobenzene	6	IU
100-41-4	Ethylbenzene	6	IU
100-42-5	Styrene	6	IU
1330-20-7	Total Xylenes	6	IU

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000041A

275S17SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506705

Sample wt/vol: 5.3 (g/mL) G

Lab File ID: 1070510D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 24

Date Analyzed: 05/11/92

Column (pack/cap) CAP

Dilution Factor: 1.00

Number TICs found: 0

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

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

AR307237

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000044A

ITW26SS03CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20505205

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 4010521N

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 23 dec. _____ Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS:	
		(ug/L or ug/Kg)	UG/KG
108-95-2	Phenol	43000	IU
111-44-4	bis(2-Chloroethyl) Ether	43000	IU
95-57-8	2-Chlorophenol	43000	IU
541-73-1	1,3-Dichlorobenzene	43000	IU
106-46-7	1,4-Dichlorobenzene	43000	IU
100-51-6	Benzyl Alcohol	43000	IU
95-50-1	1,2-Dichlorobenzene	43000	IU
95-48-7	2-Methylphenol	43000	IU
108-60-1	bis(2-Chloroisopropyl) Ether	43000	IU
621-64-7	N-Nitroso-Di-n-Propylamine	43000	IU
67-72-1	Hexachloroethane	43000	IU
98-95-3	Nitrobenzene	43000	IU
78-59-1	Isophorone	43000	IU
88-75-5	2-Nitrophenol	43000	IU
105-67-9	2,4-Dimethylphenol	43000	IU
65-85-0	Benzoic Acid	210000	IU
111-91-1	bis(2-Chloroethoxy) Methane	43000	IU
120-83-2	2,4-Dichlorophenol	43000	IU
120-82-1	1,2,4-Trichlorobenzene	43000	IU
91-20-3	Naphthalene	43000	IU
106-47-8	4-Chloroaniline	43000	IU
87-68-3	Hexachlorobutadiene	43000	IU
59-50-7	4-Chloro-3-Methylphenol	43000	IU
91-57-6	2-Methylnaphthalene	43000	IU
77-47-4	Hexachlorocyclopentadiene	43000	IU
88-06-2	2,4,6-Trichlorophenol	43000	IU
95-95-4	2,4,5-Trichlorophenol	210000	IU
91-58-7	2-Chloronaphthalene	43000	IU
88-74-4	2-Nitroaniline	210000	IU
131-11-3	Dimethyl Phthalate	43000	IU
208-96-8	Acenaphthylene	43000	IU
606-20-2	2,6-Dinitrotoluene	43000	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000045A

ITW26SS03CP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505205

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 4010521N

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 23 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7

Dilution Factor: 100

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2	3-Nitroaniline	210000	IU
83-32-9	Acenaphthene	43000	IU
51-28-5	2,4-Dinitrophenol	210000	IU
100-02-7	4-Nitrophenol	210000	IU
132-64-9	Dibenzofuran	43000	IU
121-14-2	2,4-Dinitrotoluene	43000	IU
84-66-2	Diethylphthalate	43000	IU
7005-72-3	4-Chlorophenyl-phenylether	43000	IU
86-73-7	Fluorene	43000	IU
100-01-6	4-Nitroaniline	210000	IU
534-52-1	4,6-Dinitro-2-Methylphenol	210000	IU
86-30-6	N-Nitrosodiphenylamine (1)	43000	IU
101-55-3	4-Bromophenyl-phenylether	43000	IU
118-74-1	Hexachlorobenzene	43000	IU
87-86-5	Pentachlorophenol	210000	IU
85-01-8	Phenanthrene	43000	IU
120-12-7	Anthracene	43000	IU
84-74-2	Di-n-Butylphthalate	43000	IU
206-44-0	Fluoranthene	43000	IU
129-00-0	Pyrene	43000	IU
85-68-7	Butylbenzylphthalate	43000	IU
91-94-1	3,3'-Dichlorobenzidine	85000	IU
56-55-3	Benzo(a)Anthracene	43000	IU
218-01-9	Chrysene	43000	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	540000	I
117-84-0	Di-n-Octyl Phthalate	90000	I
205-99-2	Benzo(b)Fluoranthene	43000	IU
207-08-9	Benzo(k)Fluoranthene	43000	IU
50-32-8	Benzo(a)Pyrene	43000	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	43000	IU
53-70-3	Dibenz(a,h)Anthracene	43000	IU
191-24-2	Benzo(g,h,i)Perylene	43000	IU
-----	TOTAL 3&4 METHYLPHENOL	43000	IU
110-86-1	PYRIDINE	210000	IU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307239

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000046A

ITW26SS03CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20505205

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 4010521N

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 23 dec. _____ Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 100

Number TICs found: 9 CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 1330-96-7	1,2-BENZENEDICARBOXYLIC ACID	29.91	130000	IJ
2. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	31.41	45000	IJ
3. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	31.66	28000	IJ
4. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	32.09	23000	IJ
5. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	32.42	16000	IJ
6. 119-07-3	1,2-BENZENEDICARBOXYLIC ACID	32.76	280000	IJ
7. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	33.81	23000	IJ
8. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	34.99	24000	IJ
9. 131-15-7	1,2-BENZENEDICARBOXYLIC ACID	36.89	110000	IJ

AR307240

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000047A

Lab Name: IT PITTSBURGH

Contract: 303486

26SS030PDUP

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505206

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 4020521N

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 29 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/22/92

GPC Cleanup: (Y/N) N pH: 4.5

Dilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	23000	IU
111-44-4	bis(2-Chloroethyl)Ether	23000	IU
95-57-8	2-Chlorophenol	23000	IU
541-73-1	1,3-Dichlorobenzene	23000	IU
106-46-7	1,4-Dichlorobenzene	23000	IU
100-51-6	Benzyl Alcohol	23000	IU
95-50-1	1,2-Dichlorobenzene	23000	IU
95-48-7	2-Methylphenol	23000	IU
108-60-1	bis(2-Chloroisopropyl)Ether	23000	IU
621-64-7	N-Nitroso-Di-n-Propylamine	23000	IU
67-72-1	Hexachloroethane	23000	IU
98-95-3	Nitrobenzene	23000	IU
78-59-1	Isophorone	23000	IU
88-75-5	2-Nitrophenol	23000	IU
105-67-9	2,4-Dimethylphenol	23000	IU
65-85-0	Benzoic Acid	110000	IU
111-91-1	bis(2-Chloroethoxy)Methane	23000	IU
120-83-2	2,4-Dichlorophenol	23000	IU
120-82-1	1,2,4-Trichlorobenzene	23000	IU
91-20-3	Naphthalene	23000	IU
106-47-8	4-Chloroaniline	23000	IU
87-68-3	Hexachlorobutadiene	23000	IU
59-50-7	4-Chloro-3-Methylphenol	23000	IU
91-57-6	2-Methylnaphthalene	23000	IU
77-47-4	Hexachlorocyclopentadiene	23000	IU
88-06-2	2,4,6-Trichlorophenol	23000	IU
95-95-4	2,4,5-Trichlorophenol	110000	IU
91-58-7	2-Chloronaphthalene	23000	IU
88-74-4	2-Nitroaniline	110000	IU
131-11-3	Dimethyl Phthalate	23000	IU
208-96-8	Acenaphthylene	23000	IU
606-20-2	2,6-Dinitrotoluene	23000	IU

AR307241

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000048A

268503CPDUP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20505206

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 4020521N

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 29 dec. _____ Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/22/92

GPC Cleanup: (Y/N) N pH: 4.5 Dilution Factor: 50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2	3-Nitroaniline	110000	1U
83-32-9	Acenaphthene	23000	1U
51-28-5	2,4-Dinitrophenol	110000	1U
100-02-7	4-Nitrophenol	110000	1U
132-64-9	Dibenzofuran	23000	1U
121-14-2	2,4-Dinitrotoluene	23000	1U
84-66-2	Diethylphthalate	23000	1U
7005-72-3	4-Chlorophenyl-phenylether	23000	1U
86-73-7	Fluorene	23000	1U
100-01-6	4-Nitroaniline	110000	1U
534-52-1	4,6-Dinitro-2-Methylphenol	110000	1U
86-30-6	N-Nitrosodiphenylamine (1)	23000	1U
101-55-3	4-Bromophenyl-phenylether	23000	1U
118-74-1	Hexachlorobenzene	23000	1U
87-86-5	Pentachlorophenol	110000	1U
85-01-8	Phenanthrene	23000	1U
120-12-7	Anthracene	23000	1U
84-74-2	Di-n-Butylphthalate	23000	1U
206-44-0	Fluoranthene	23000	1U
129-00-0	Pyrene	23000	1U
85-68-7	Butylbenzylphthalate	23000	1U
91-94-1	3,3'-Dichlorobenzidine	46000	1U
56-55-3	Benzo(a)Anthracene	23000	1U
218-01-9	Chrysene	23000	1U
117-81-7	bis(2-Ethylhexyl)Phthalate	230000	1
117-84-0	Di-n-Octyl Phthalate	24000	1
205-99-2	Benzo(b)Fluoranthene	23000	1U
207-08-9	Benzo(k)Fluoranthene	23000	1U
50-32-8	Benzo(a)Pyrene	23000	1U
193-39-5	Indeno(1,2,3-cd)Pyrene	23000	1U
53-70-3	Dibenz(a,h)Anthracene	23000	1U
191-24-2	Benzo(g,h,i)Perylene	23000	1U
	TOTAL 3&4 METHYLPHENOL	23000	1U
110-86-1	PYRIDINE	110000	1U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

1/87 Rev.

AR307242

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000049A

265503CPDUP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: 020505206

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 4020521N

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 29 dec. _____ Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/22/92

GPC Cleanup: (Y/N) N pH: 4.5 Dilution Factor: 50

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

Number TICs found: 11

#	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	19.30	28000	IJ
2.	140-66-9	PHENOL, 4-(1,1,3,3-TETRAMETHI	19.44	9000	IJ
3.		UNKNOWN	19.52	15000	IJ
4.		UNKNOWN	19.62	14000	IJ
5.		UNKNOWN	19.90	8300	IJ
6.	140-66-9	PHENOL, 4-(1,1,3,3-TETRAMETHI	20.00	23000	IJ
7.		UNKNOWN ALKANE	20.45	11000	IJ
8.		UNKNOWN ALKANE	20.54	11000	IJ
9.	26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	32.22	19000	IJ
10.	131-15-7	1,2-BENZENEDICARBOXYLIC ACID	32.81	79000	IJ
11.	131-15-7	1,2-BENZENEDICARBOXYLIC ACID	36.97	29000	IJ

AR307243

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000050A

ITW26S312SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505207

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 40205200

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 29 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/20/92

GPC Cleanup: (Y/N) N pH: 4.7

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
108-95-2	Phenol	460	1U	
111-44-4	bis(2-Chloroethyl)Ether	460	1U	
95-57-8	2-Chlorophenol	460	1U	
541-73-1	1,3-Dichlorobenzene	460	1U	
106-46-7	1,4-Dichlorobenzene	460	1U	
100-51-6	Benzyl Alcohol	460	1U	
95-50-1	1,2-Dichlorobenzene	460	1U	
95-48-7	2-Methylphenol	460	1U	
108-60-1	bis(2-Chloroisopropyl)Ether	460	1U	
621-64-7	N-Nitroso-Di-n-Propylamine	460	1U	
67-72-1	Hexachloroethane	460	1U	
98-95-3	Nitrobenzene	460	1U	
78-59-1	Isophorone	460	1U	
88-75-5	2-Nitrophenol	460	1U	
105-67-9	2,4-Dimethylphenol	460	1U	
65-85-0	Benzoic Acid	2200	1U	
111-91-1	bis(2-Chloroethoxy)Methane	460	1U	
120-83-2	2,4-Dichlorophenol	460	1U	
120-82-1	1,2,4-Trichlorobenzene	460	1U	
91-20-3	Naphthalene	460	1U	
106-47-8	4-Chloroaniline	460	1U	
87-68-3	Hexachlorobutadiene	460	1U	
59-50-7	4-Chloro-3-Methylphenol	460	1U	
91-57-6	2-Methylnaphthalene	460	1U	
77-47-4	Hexachlorocyclopentadiene	460	1U	
88-06-2	2,4,6-Trichlorophenol	460	1U	
95-95-4	2,4,5-Trichlorophenol	2200	1U	
91-58-7	2-Chloronaphthalene	460	1U	
88-74-4	2-Nitroaniline	2200	1U	
131-11-3	Dimethyl Phthalate	460	1U	
208-96-8	Acenaphthylene	460	1U	
606-20-2	2,6-Dinitrotoluene	460	1U	

AR307244

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000051A

ITW268312SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505207

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 40205200

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 29 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/20/92

GPC Cleanup: (Y/N) N pH: 4.7

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q
99-09-2	3-Nitroaniline	2200	IU	
83-32-9	Acenaphthene	460	IU	
51-28-5	2,4-Dinitrophenol	2200	IU	
100-02-7	4-Nitrophenol	2200	IU	
132-64-9	Dibenzofuran	460	IU	
121-14-2	2,4-Dinitrotoluene	460	IU	
84-66-2	Diethylphthalate	460	IU	
7005-72-3	4-Chlorophenyl-phenylether	460	IU	
86-73-7	Fluorene	460	IU	
100-01-6	4-Nitroaniline	2200	IU	
534-52-1	4,6-Dinitro-2-Methylphenol	2200	IU	
86-30-6	N-Nitrosodiphenylamine (1)	460	IU	
101-55-3	4-Bromophenyl-phenylether	460	IU	
118-74-1	Hexachlorobenzene	460	IU	
87-86-5	Pentachlorophenol	2200	IU	
85-01-8	Phenanthrene	460	IU	
120-12-7	Anthracene	460	IU	
84-74-2	Di-n-Butylphthalate	51	I RJ	
206-44-0	Fluoranthene	460	IU	
129-00-0	Pyrene	460	IU	
85-68-7	Butylbenzylphthalate	460	IU	
91-94-1	3,3'-Dichlorobenzidine	930	IU	
56-55-3	Benzo(a)Anthracene	460	IU	
218-01-9	Chrysene	460	IU	
117-81-7	bis(2-Ethylhexyl)Phthalate	980	I	
117-84-0	Di-n-Octyl Phthalate	120	I J	
205-99-2	Benzo(b)Fluoranthene	460	IU	
207-08-9	Benzo(k)Fluoranthene	460	IU	
50-32-8	Benzo(a)Pyrene	460	IU	
193-39-5	Indeno(1,2,3-cd)Pyrene	460	IU	
53-70-3	Dibenz(a,h)Anthracene	460	IU	
191-24-2	Benzo(g,h,i)Perylene	460	IU	
	TOTAL 3&4 METHYLPHENOL	460	IU	
110-86-1	PYRIDINE	2200	IU	

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307245

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000052A

ITW2653123AP

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20505207
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 4020520D
 Level: (low/med) LOW Date Received: 05/07/92
 % Moisture: not dec. 29 dec. _____ Date Extracted: 05/08/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/20/92
 GPC Cleanup: (Y/N) N pH: 4.7 Dilution Factor: 1.0

Number TICs found: 6

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

CAS NUMBER	COMPOUND NAME	R1	EST. CONC.	U
1. 123-20-6	BUTANOIC ACID, ETHENYL ESTER	6.80	390	BJ
2. 34061-75-1	ETHER, 3-BUTENYL PROPYL	6.93	360	IJ
3. 2370-12-9	1-PENTANOL, 2,2-DIMETHYL-	7.35	780	IJ
4.	UNKNOWN	7.55	910	IJ
5. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	21.22	420	IJ
6.	UNKNOWN PHTHALATE	32.66	390	IJ

INTERNATIONAL TECHNOLOGY (MONROEVILLE) PROJECT 92037

Run #	Oxidation Condition Vol. of Sol. Tested	Date of Run 1992	Time (min)	pH	O ₂ Dose mg/L	H ₂ O ₂ Dose mg/L	1,2 DCP µgm/L	cis 1,2 Dichloro Ethylene µgm/L	trans 1,2 Dichloro Ethylene µgm/L	1,1 DCE µgm/L	TCE µgm/L	PCE µgm/L	1,2 DCB µgm/L	1,4 DCB µgm/L	Benzene µgm/L	Toluene µgm/L	Xylenes µgm/L	Ethyl-Benzene µgm/L	Di-Ethyl Phthal µgm/L	Di-N-Butyl Phthal µgm/L	Bis(2-Ethyl-Hexyl Phthal µgm/L	D-N-Octyl Phthal µgm/L
1	UV/O ₂ /H ₂ O ₂ 2.0 liters	6/17	0 5 10 15 20	6.3 6.0	0 2.5 5.0 7.5 10.0	0 10 10 10 10	0.7** <0.5*	42.0* 13.0*	<5.0* 6.0*	2.2** <0.5*	11.0** <5.0*	3.1** <0.5*	2.8** <0.5*	1.0** <0.5*	1.9*** <5.0*	2.2*** <5.0*	4.6*** <2.0*	1.6*** <2.0*	<10 <10	<10 <10	EPA Method <10 <10	8270 <10 <10
2	O ₂ /H ₂ O ₂ 2.0 liters	6/17	0 5 10 15 20	6.3 6.5	0 2.5 5.0 7.5 10.0	0 10 10 10 10	0.7** <0.5*	42.0* 33.0*	<5.0* <5.0*	2.2** <0.5*	11.0** 5.0*	3.1** <0.5*	2.8** <0.5*	1.0** <0.5*	1.9*** 8.0*	2.2*** <5.0*	4.6*** <2.0*	1.6*** <2.0*	<10 <10	<10 <10	EPA Method <10 <10	8270 <10 <10
3	UV/O ₂ /H ₂ O ₂ 2.0 liters	6/22	0 5 10 15	6.3 6.0	0 2.5 5.0 7.5	0 10 10 10	0.7** <0.5*	42.0* 14.0*	<5.0* 6.0*	2.2** <0.5*	11.0** <5.0*	3.1** <0.5*	2.8** <0.5*	1.0** <0.5*	1.9*** <5.0*	2.2*** <5.0*	4.6*** 2.0*	1.6*** 4.0*	<10 <10	<10 <10	EPA Method <10 <10	8270 <10 <10
4	UV/O ₂ /H ₂ O ₂ 2.0 liters	6/26	0 10 20 30	6.3 6.2	0 5 10 15	0 10 10 10	0.7** <0.5*	42.0* 11.0**	<5.0* 3.6**	2.2** <0.5**	11.0** 0.9**	3.1** <0.5**	2.8** <0.5**	1.0** <0.5**	1.9*** 0.5***	2.2*** 2.8***	4.6*** 1.6***	1.6*** 0.9***	<10 <10	<10 <10	EPA Method <10 <10	8270 <10 <10
5	UV/O ₂ /H ₂ O ₂ 2.0 liters (Dist H ₂ O Blank)	7/6	0 10 20 30		0 5 10 15	0 10 10 10																
6	UV/O ₂ /H ₂ O ₂ 2.0 liters	7/14	0 15 30 45 45	5.0 3.3 3.1 3.1	0 10 20 30	0 10 10 10 20	0.7** <0.5** <0.5** <0.5** <1.0*	43.0** 9.0** 0.5** <0.5** <1.0*	1.2** 2.2** <0.5** <0.5** <1.0*	<0.5** <0.5** <0.5** <0.5** <1.0*	11.0** 1.7** <0.5** <0.5** <1.0*	3.1** <0.5** <0.5** <0.5** <1.0*	2.8** <0.5** <0.5** <0.5** <1.0*	1.0** <0.5** <0.5** <0.5** <1.0*	1.9*** <0.5*** <0.5*** <0.5*** <1.0*	2.0*** 1.0*** <0.5*** <0.5*** <1.0*	4.6*** 1.0*** <1.0*** <1.0*** <1.0*	1.6*** <0.5*** <0.5*** <0.5*** <1.0*	<10 <10 <10 <10 <10	<10 <10 <10 <10 <10	EPA Method <10 <10 <10 <10 <10	8270 <10 <10 <10 <10

* EPA Method 8240 used at APCI Lab, Pomona, CA
 ** EPA Method 601 used at International Technology Lab, Cerritos, CA
 *** EPA Method 602 used at International Technology Lab, Cerritos, CA
 @ EPA Method 8015 used at International Technology Lab, Cerritos, CA
 • EPA Method 624 used at West Coast Analytical Service
 • EPA Method 8270 used at International Technology Lab, Cerritos, CA

INTERNATIONAL TECHNOLOGY (MONROEVILLE) PROJECT 92037

Run #	Oxidation Condition Vol. of Sol. Tested	Date of Run 1992	Time (min)	pH	O ₃ Dose mg/L	H ₂ O ₂ Dose mg/L	Acetone µgm/L	IPrOH µgm/L	MEK µgm/L	THF µgm/L	MeOH µgm/L	EtoH µgm/L	Vinyl Chloride µgm/L	CHCl ₃ µgm/L	CH ₂ Cl ₂ µgm/L	Chloro Benzene µgm/L			
1	UV/O ₃ /H ₂ O ₂ 2.0 liters	6/17	0	6.3	0	0	60@	<50@	160@	<10@	<250@	<100@	48*	0.8**	~20*	2.9**			
			5		2.5	10													
			10		5.0	10													
			15		7.5	10													
			20		10.0	10													
2	O ₃ /H ₂ O ₂ 2.0 liters	6/17	0	6.3	0	0	<60@	<50@	160@	<10@	<250@	100@	48*	0.8**	~20*	2.9*			
			5		2.5	10													
			10		5.0	10													
			15		7.5	10													
			20		10.0	10													
3	UV/O ₃ /H ₂ O ₂ 2.0 liters	6/22	0	6.3	0	0	60@	<50@	160@	<10@	<250@	<100@	48*	0.8**	~20*	2.9*			
			5		2.5	10													
			10		5.0	10													
			15		7.5	10													
			20		10.0	10													
4	UV/O ₃ /H ₂ O ₂ 2.0 liters	6/26	0	6.3	0	0	60@	<50@	160@	<10@	<250@	<100@	48*	0.8*	~20*				
			10		5	10													
			20		10	10													
			30		15	10													
			30		6.2	15	10												
5	UV/O ₃ /H ₂ O ₂ 2.0 liters (Dist H ₂ O Blank)	7/6	0		0	0													
			10		5	10													
			20		10	10													
			30		15	10													
			30		6.2	15	10												
6	UV/O ₃ /H ₂ O ₂ 2.0 liters	7/14	0	5.0	0	0	60@	<50@	160@	<10@	<250@	<100@	22**	<0.5**	<15**	2.9**			
			15		3.3	10	20	200@	70@	140@	10@	<250@	130@	<0.2**	<0.5**	<15**	<0.5**		
			30		3.1	20	20	530@	<50@	120@	<10@	<250@	<100@	<0.2**	<0.5**	<15**	<0.5**		
			45		3.1	30	20	620@	<50@	30@	<10@	<230@	<100@	<0.2**	<0.5**	<15**	<0.5**		
			45			30	20	790m	<100m	20m	<5m				<5.0m	<1.0m	<5.0m	<1.0m	

* EPA Method 8240 used at AFCL Labs, Pomona, CA
 ** EPA Method 601 used at International Technology Lab, Cerritos, CA
 *** EPA Method 602 used at International Technology Lab, Cerritos, CA
 @ EPA Method 8015 used at International Technology Lab, Cerritos, CA
 m EPA Method 624 used at West Coast Analytical Service
 n EPA Method 8270 used at International Technology Lab, Cerritos, CA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000053A

ITW26SS17SAP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020505208

Sample wt/vol: 30.0 (g/mL) 6

Lab File ID: 4120521D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 26 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.4

Dilution Factor: 1.00

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

108-95-2	Phenol	450	IU
111-44-4	bis(2-Chloroethyl)Ether	450	IU
95-57-8	2-Chlorophenol	450	IU
541-73-1	1,3-Dichlorobenzene	450	IU
106-46-7	1,4-Dichlorobenzene	450	IU
100-51-6	Benzyl Alcohol	450	IU
95-50-1	1,2-Dichlorobenzene	450	IU
95-48-7	2-Methylphenol	450	IU
108-60-1	bis(2-Chloroisopropyl)Ether	450	IU
621-64-7	N-Nitroso-Di-n-Propylamine	450	IU
67-72-1	Hexachloroethane	450	IU
98-95-3	Nitrobenzene	450	IU
78-59-1	Isophorone	450	IU
88-75-5	2-Nitrophenol	450	IU
105-67-9	2,4-Dimethylphenol	450	IU
65-85-0	Benzoic Acid	2200	IU
111-91-1	bis(2-Chloroethoxy)Methane	450	IU
120-83-2	2,4-Dichlorophenol	450	IU
120-82-1	1,2,4-Trichlorobenzene	450	IU
91-20-3	Naphthalene	450	IU
106-47-8	4-Chloroaniline	450	IU
87-68-3	Hexachlorobutadiene	450	IU
59-50-7	4-Chloro-3-Methylphenol	450	IU
91-57-6	2-Methylnaphthalene	450	IU
77-47-4	Hexachlorocyclopentadiene	450	IU
88-06-2	2,4,6-Trichlorophenol	450	IU
95-95-4	2,4,5-Trichlorophenol	2200	IU
91-58-7	2-Chloronaphthalene	450	IU
88-74-4	2-Nitroaniline	2200	IU
131-11-3	Dimethyl Phthalate	450	IU
208-96-8	Acenaphthylene	450	IU
606-20-2	2,6-Dinitrotoluene	450	IU

AR307249

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000054A

ITW2655175AP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20505208

Sample wt/vol: 30.0 (g/mL) G

Lab File ID: 4120521D

Level: (low/med) LOW

Date Received: 05/07/92

% Moisture: not dec. 26 dec. _____

Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.4

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2	3-Nitroaniline	2200	IU
83-32-9	Acenaphthene	450	IU
51-28-5	2,4-Dinitrophenol	2200	IU
100-02-7	4-Nitrophenol	2200	IU
132-64-9	Dibenzofuran	450	IU
121-14-2	2,4-Dinitrotoluene	450	IU
84-66-2	Diethylphthalate	450	IU
7005-72-3	4-Chlorophenyl-phenylether	450	IU
86-73-7	Fluorene	450	IU
100-01-6	4-Nitroaniline	2200	IU
534-52-1	4,6-Dinitro-2-Methylphenol	2200	IU
86-30-6	N-Nitrosodiphenylamine (1)	450	IU
101-55-3	4-Bromophenyl-phenylether	450	IU
118-74-1	Hexachlorobenzene	450	IU
87-86-5	Pentachlorophenol	2200	IU
85-01-8	Phenanthrene	450	IU
120-12-7	Anthracene	450	IU
84-74-2	Di-n-Butylphthalate	59	I BJ
206-44-0	Fluoranthene	450	IU
129-00-0	Pyrene	450	IU
85-68-7	Butylbenzylphthalate	450	IU
91-94-1	3,3'-Dichlorobenzidine	890	IU
56-55-3	Benzo(a)Anthracene	450	IU
218-01-9	Chrysene	450	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	150	I J
117-84-0	Di-n-Octyl Phthalate	450	IU
205-99-2	Benzo(b)Fluoranthene	450	IU
207-08-9	Benzo(k)Fluoranthene	450	IU
50-32-8	Benzo(a)Pyrene	450	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	450	IU
53-70-3	Dibenz(a,h)Anthracene	450	IU
191-24-2	Benzo(g,h,i)Perylene	450	IU
	TOTAL 3&4 METHYLPHENOL	450	IU
110-86-1	PYRIDINE	2200	IU

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

1/87 Rev.

AR307250

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000055A

ITW26SS173AF

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20505208

Sample wt/vol: 30.0 (g/mL) g Lab File ID: 4120521D

Level: (low/med) LOW Date Received: 05/07/92

% Moisture: not dec. 26 dec. _____ Date Extracted: 05/08/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.00

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

Number TICs found: 8

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	G
1. 7326-46-7	2-FURANOL, TETRAHYDRO-2-METHI	6.90	510	1JA
2.	UNKNOWN	7.05	720	1J
3. 17257-81-7	ETHANONE, 1-(3-ETHYLOXIRANYL)	7.45	1700	1BJA
4. 17257-81-7	ETHANONE, 1-(3-ETHYLOXIRANYL)	7.65	1900	1BJA
5.	UNKNOWN	8.02	3700	1J
6. 74421-06-0	2-HEPTENE 5-ETHYL-2,4-DIMETHI	8.50	410	1BJ
7. 594-56-9	1-BUTENE 2,3,3-TRIMETHYL-	8.57	260	1J
8.	UNKNOWN PHTHALATE	21.20	370	1J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000056A

ITW279903CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20506706

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5020520N

Level: (low/med) LOW Date Received: 05/08/92

% Moisture: not dec. 33 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/20/92

GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	-----Phenol	490	IU
111-44-4	-----bis(2-Chloroethyl)Ether	490	IU
95-57-8	-----2-Chlorophenol	490	IU
541-73-1	-----1,3-Dichlorobenzene	490	IU
106-46-7	-----1,4-Dichlorobenzene	490	IU
100-51-6	-----Benzyl Alcohol	490	IU
95-50-1	-----1,2-Dichlorobenzene	490	IU
95-48-7	-----2-Methylphenol	490	IU
108-60-1	-----bis(2-Chloroisopropyl)Ether	490	IU
621-64-7	-----N-Nitroso-Di-n-Propylamine	490	IU
67-72-1	-----Hexachloroethane	490	IU
98-95-3	-----Nitrobenzene	490	IU
78-59-1	-----Isophorone	490	IU
88-75-5	-----2-Nitrophenol	490	IU
105-67-9	-----2,4-Dimethylphenol	490	IU
65-85-0	-----Benzoic Acid	2400	IU
111-91-1	-----bis(2-Chloroethoxy)Methane	490	IU
120-83-2	-----2,4-Dichlorophenol	490	IU
120-82-1	-----1,2,4-Trichlorobenzene	490	IU
91-20-3	-----Naphthalene	490	IU
106-47-8	-----4-Chloroaniline	490	IU
87-68-3	-----Hexachlorobutadiene	490	IU
59-50-7	-----4-Chloro-3-Methylphenol	490	IU
91-57-6	-----2-Methylnaphthalene	490	IU
77-47-4	-----Hexachlorocyclopentadiene	490	IU
88-06-2	-----2,4,6-Trichlorophenol	490	IU
95-95-4	-----2,4,5-Trichlorophenol	2400	IU
91-58-7	-----2-Chloronaphthalene	490	IU
88-74-4	-----2-Nitroaniline	2400	IU
131-11-3	-----Dimethyl Phthalate	490	IU
208-96-8	-----Acenaphthylene	490	IU
606-20-2	-----2,6-Dinitrotoluene	490	IU

AR307252

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000057A

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: 020506706
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5020520N
 Level: (low/med) LOW Date Received: 05/08/92
 % Moisture: not dec. 33 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/20/92
 GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	2400	IU
83-32-9	Acenaphthene	490	IU
51-28-5	2,4-Dinitrophenol	2400	IU
100-02-7	4-Nitrophenol	2400	IU
132-64-9	Dibenzofuran	490	IU
121-14-2	2,4-Dinitrotoluene	490	IU
84-66-2	Diethylphthalate	490	IU
7005-72-3	4-Chlorophenyl-phenylether	490	IU
86-73-7	Fluorene	490	IU
100-01-6	4-Nitroaniline	2400	IU
534-52-1	4,6-Dinitro-2-Methylphenol	2400	IU
86-30-6	N-Nitrosodiphenylamine (1)	490	IU
101-55-3	4-Bromophenyl-phenylether	490	IU
118-74-1	Hexachlorobenzene	490	IU
87-86-5	Pentachlorophenol	2400	IU
85-01-8	Phenanthrene	490	IU
120-12-7	Anthracene	490	IU
84-74-2	Di-n-Butylphthalate	94	IBJ
206-44-0	Fluoranthene	490	IU
129-00-0	Pyrene	490	IU
85-68-7	Butylbenzylphthalate	73	IJ
91-94-1	3,3'-Dichlorobenzidine	980	IU
56-55-3	Benzo(a)Anthracene	490	IU
218-01-9	Chrysene	490	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	39000	IE
117-84-0	Di-n-Octyl Phthalate	3200	I
205-99-2	Benzo(b)Fluoranthene	490	IU
207-08-9	Benzo(k)Fluoranthene	490	IU
50-32-8	Benzo(a)Pyrene	490	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	490	IU
53-70-3	Dibenz(a,h)Anthracene	490	IU
191-24-2	Benzo(g,h,i)Perylene	490	IU
	TOTAL 3&4 METHYLPHENOL	490	IU
110-86-1	PYRIDINE	2400	IU

(1) - Cannot be separated from Diphenylamine

AR307253

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000058A

ITW275S03CP

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITFA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20506706
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5020520N
 Level: (low/med) LOW Date Received: 05/08/92
 % Moisture: not dec. 33 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/20/92
 GPC Cleanup: (Y/N) N pH: 6.2 Dilution Factor: 1.0

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

Number TICs found: 20

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 54105-67-8	12,6-DIMETHYLHEPTADECANE	19.10	3300	1J
2.	UNKNOWN	19.35	3500	1J-
3.	UNKNOWN	19.45	3700	1J-
4.	UNKNOWN ALKANE	20.30	2600	1J
5.	UNKNOWN ALKANE	21.29	3100	1J
6.	UNKNOWN	25.11	3000	1J-
7.	UNKNOWN ALKANE	25.41	6800	1J
8.	UNKNOWN ALKANE	25.57	7400	1J
9. 6971-40-0	17-PENTATRIACONTENE	26.12	3700	1J
10.	UNKNOWN	26.41	5200	1J-
11.	UNKNOWN	26.67	8600	1J-
12.	UNKNOWN	27.04	13000	1J-
13.	UNKNOWN ALKANE	27.29	5100	1J
14.	UNKNOWN	27.79	4400	1J-
15.	UNKNOWN ALKANE	27.89	6000	1J
16.	UNKNOWN ALKANE	28.07	4400	1J
17.	UNKNOWN	28.31	5800	1J-
18.	UNKNOWN	28.47	3400	1J-
19. 119-07-3	11,2-BENZENEDICARBOXYLIC ACID	31.64	4300	1J
20.	UNKNOWN PHTHALATE	34.86	2800	1J

AR307254

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000059A

275503CPDL

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020506706

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5030521D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 33 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.2

Dilution Factor: 10

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	4900	IU
111-44-4	bis(2-Chloroethyl)Ether	4900	IU
95-57-8	2-Chlorophenol	4900	IU
541-73-1	1,3-Dichlorobenzene	4900	IU
106-46-7	1,4-Dichlorobenzene	4900	IU
100-51-6	Benzyl Alcohol	4900	IU
95-50-1	1,2-Dichlorobenzene	4900	IU
95-48-7	2-Methylphenol	4900	IU
108-60-1	bis(2-Chloroisopropyl)Ether	4900	IU
621-64-7	N-Nitroso-Di-n-Propylamine	4900	IU
67-72-1	Hexachloroethane	4900	IU
98-95-3	Nitrobenzene	4900	IU
78-59-1	Isophorone	4900	IU
88-75-5	2-Nitrophenol	4900	IU
105-67-9	2,4-Dimethylphenol	4900	IU
65-85-0	Benzoic Acid	24000	IU
111-91-1	bis(2-Chloroethoxy)Methane	4900	IU
120-83-2	2,4-Dichlorophenol	4900	IU
120-82-1	1,2,4-Trichlorobenzene	4900	IU
91-20-3	Naphthalene	4900	IU
106-47-8	4-Chloroaniline	4900	IU
87-68-3	Hexachlorobutadiene	4900	IU
59-50-7	4-Chloro-3-Methylphenol	4900	IU
91-57-6	2-Methylnaphthalene	4900	IU
77-47-4	Hexachlorocyclopentadiene	4900	IU
88-06-2	2,4,6-Trichlorophenol	4900	IU
95-95-4	2,4,5-Trichlorophenol	24000	IU
91-58-7	2-Chloronaphthalene	4900	IU
88-74-4	2-Nitroaniline	24000	IU
131-11-3	Dimethyl Phthalate	4900	IU
208-96-8	Acenaphthylene	4900	IU
606-20-2	2,6-Dinitrotoluene	4900	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000060A

Lab Name: <u>IT PITTSBURGH</u>	Contract: <u>303486</u>	275503CPDL
Lab Code: <u>ITPA</u>	Case No.: <u>BF4</u>	SAS No.: _____
		SDG No.: <u>BF004</u>
Matrix: (soil/water) <u>SOIL</u>		Lab Sample ID: <u>Q20506706</u>
Sample wt/vol: <u>30.1</u> (g/mL) <u>G</u>		Lab File ID: <u>5030521D</u>
Level: (low/med) <u>LOW</u>		Date Received: <u>05/08/92</u>
% Moisture: not dec. <u>33</u> dec. _____		Date Extracted: <u>05/14/92</u>
Extraction: (SepF/Cont/Sonc) <u>SONC</u>		Date Analyzed: <u>05/21/92</u>
GPC Cleanup: (Y/N) <u>N</u>	pH: <u>6.2</u>	Dilution Factor: <u>10</u>

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2-	-----3-Nitroaniline	24000	IU
83-32-9-	-----Acenaphthene	4900	IU
51-28-5-	-----2,4-Dinitrophenol	24000	IU
100-02-7-	-----4-Nitrophenol	24000	IU
132-64-9-	-----Dibenzofuran	4900	IU
121-14-2-	-----2,4-Dinitrotoluene	4900	IU
84-66-2-	-----Diethylphthalate	4900	IU
7005-72-3-	-----4-Chlorophenyl-phenylether	4900	IU
86-73-7-	-----Fluorene	4900	IU
100-01-6-	-----4-Nitroaniline	24000	IU
534-52-1-	-----4,6-Dinitro-2-Methylphenol	24000	IU
86-30-6-	-----N-Nitrosodiphenylamine (1)	4900	IU
101-55-3-	-----4-Bromophenyl-phenylether	4900	IU
118-74-1-	-----Hexachlorobenzene	4900	IU
87-86-5-	-----Pentachlorophenol	24000	IU
85-01-8-	-----Phenanthrene	4900	IU
120-12-7-	-----Anthracene	4900	IU
84-74-2-	-----Di-n-Butylphthalate	4900	IU
206-44-0-	-----Fluoranthene	4900	IU
129-00-0-	-----Pyrene	4900	IU
85-68-7-	-----Butylbenzylphthalate	4900	IU
91-94-1-	-----3,3'-Dichlorobenzidine	9800	IU
56-55-3-	-----Benzo(a)Anthracene	4900	IU
218-01-9-	-----Chrysene	4900	IU
117-81-7-	-----bis(2-Ethylhexyl)Phthalate	46000	ID
117-84-0-	-----Di-n-Octyl Phthalate	2000	IDJ
205-99-2-	-----Benzo(b)Fluoranthene	4900	IU
207-08-9-	-----Benzo(k)Fluoranthene	4900	IU
50-32-8-	-----Benzo(a)Pyrene	4900	IU
193-39-5-	-----Indeno(1,2,3-cd)Pyrene	4900	IU
53-70-3-	-----Dibenz(a,h)Anthracene	4900	IU
191-24-2-	-----Benzo(g,h,i)Perylene	4900	IU
-----	-----TOTAL 3&4 METHYLPHENOL	4900	IU
110-86-1-	-----PYRIDINE	24000	IU

(1) - Cannot be separated from Diphenylamine
FORM I 5V-2

AR307256

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000061A

27SS03CPDL

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20506706

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5030521D

Level: (low/med) LOW

Date Received: 05/08/92

% Moisture: not dec. 33 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.2

Dilution Factor: 10

Number TICs found: 10

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	19.07	3600	1J ^x
2.	UNKNOWN PHENOL	19.25	3400	1J
3.	UNKNOWN	19.34	3500	1J-
4.	UNKNOWN	19.42	3600	1J-
5.	UNKNOWN	19.49	2200	1J-
6.	UNKNOWN	19.72	3400	1J
7. 54004-41-0	1-PENTANOL, 4-METHYL-2-PROPYL	20.27	3500	1J
8.	UNKNOWN	30.49	1600	1J-
9.	UNKNOWN DICARBOXYLIC ACID	31.54	10000	1J
10.	UNKNOWN	34.76	380	1J-

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000062A

ITW27SS09CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507101

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5040521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	UG/KG	Q
108-95-2	-----Phenol	570	IU
111-44-4	-----bis(2-Chloroethyl)Ether	570	IU
95-57-8	-----2-Chlorophenol	570	IU
541-73-1	-----1,3-Dichlorobenzene	570	IU
106-46-7	-----1,4-Dichlorobenzene	570	IU
100-51-6	-----Benzyl Alcohol	570	IU
95-50-1	-----1,2-Dichlorobenzene	570	IU
95-48-7	-----2-Methylphenol	570	IU
108-60-1	-----bis(2-Chloroisopropyl)Ether	570	IU
621-64-7	-----N-Nitroso-Di-n-Propylamine	570	IU
67-72-1	-----Hexachloroethane	570	IU
98-95-3	-----Nitrobenzene	570	IU
78-59-1	-----Isophorone	570	IU
88-75-5	-----2-Nitrophenol	570	IU
105-67-9	-----2,4-Dimethylphenol	570	IU
65-85-0	-----Benzoic Acid	2800	IU
111-91-1	-----bis(2-Chloroethoxy)Methane	570	IU
120-83-2	-----2,4-Dichlorophenol	570	IU
120-82-1	-----1,2,4-Trichlorobenzene	570	IU
91-20-3	-----Naphthalene	570	IU
106-47-8	-----4-Chloroaniline	570	IU
87-68-3	-----Hexachlorobutadiene	570	IU
59-50-7	-----4-Chloro-3-Methylphenol	570	IU
91-57-6	-----2-Methylnaphthalene	570	IU
77-47-4	-----Hexachlorocyclopentadiene	570	IU
88-06-2	-----2,4,6-Trichlorophenol	570	IU
95-95-4	-----2,4,5-Trichlorophenol	2800	IU
91-58-7	-----2-Chloronaphthalene	570	IU
88-74-4	-----2-Nitroaniline	2800	IU
131-11-3	-----Dimethyl Phthalate	570	IU
208-96-8	-----Acenaphthylene	570	IU
606-20-2	-----2,6-Dinitrotoluene	570	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000063A

Lab Name: IT PITTSBURGH

Contract: 303486

ITW275309CP

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20507101

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5040521D

Level: (low/med) LOW

Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7

Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	<u>Q</u>
99-09-2	3-Nitroaniline	2800	IU
83-32-9	Acenaphthene	570	IU
51-28-5	2,4-Dinitrophenol	2800	IU
100-02-7	4-Nitrophenol	2800	IU
132-64-9	Dibenzofuran	570	IU
121-14-2	2,4-Dinitrotoluene	570	IU
84-66-2	Diethylphthalate	570	IU
7005-72-3	4-Chlorophenyl-phenylether	570	IU
86-73-7	Fluorene	570	IU
100-01-6	4-Nitroaniline	2800	IU
534-52-1	4,6-Dinitro-2-Methylphenol	2800	IU
86-30-6	N-Nitrosodiphenylamine (1)	570	IU
101-55-3	4-Bromophenyl-phenylether	570	IU
118-74-1	Hexachlorobenzene	570	IU
87-86-5	Pentachlorophenol	2800	IU
85-01-8	Phenanthrene	570	IU
120-12-7	Anthracene	570	IU
84-74-2	Di-n-Butylphthalate	570	IU
206-44-0	Fluoranthene	570	IU
129-00-0	Pyrene	570	IU
85-68-7	Butylbenzylphthalate	570	IU
91-94-1	3,3'-Dichlorobenzidine	1100	IU
56-55-3	Benzo(a)Anthracene	570	IU
218-01-9	Chrysene	570	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	100000	IE
117-84-0	Di-n-Octyl Phthalate	23000	IE
205-99-2	Benzo(b)Fluoranthene	570	IU
207-08-9	Benzo(k)Fluoranthene	570	IU
50-32-8	Benzo(a)Pyrene	570	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	570	IU
53-70-3	Dibenz(a,h)Anthracene	570	IU
191-24-2	Benzo(g,h,i)Perylene	570	IU
	TOTAL 3&4 METHYLPHENOL	570	IU
110-86-1	PYRIDINE	2800	IU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307259

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

000064A

ITW27SS09CP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507101

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5040521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 1.0

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

Number TICs found: 28

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 98-82-8	BENZENE, (1-METHYLETHYL)-	6.43	430	IJ
2. 17257-81-7	ETHANONE, 1-(3-ETHYLOXIRANYL)	6.80	270	IJ
3. 17257-81-7	ETHANONE, 1-(3-ETHYLOXIRANYL)	7.03	370	IJ
4.	UNKNOWN	7.40	1400	IJ
5.	UNKNOWN	13.07	780	IJ
6.	UNKNOWN ALKANE	15.10	730	IJ-
7.	UNKNOWN DECANE	15.99	870	IJ-
8. 112-53-8	11-DODECANOL	16.14	2700	IJ
9.	UNKNOWN	16.39	720	IJ
10.	UNKNOWN ALKANE	16.49	1200	IJ-
11.	UNKNOWN	17.10	1100	IJ
12.	UNKNOWN	17.20	1100	IJ
13.	UNKNOWN ALKANE	17.77	2500	IJ-
14.	UNKNOWN ALKANE	18.39	3200	IJ-
15. 1921-70-6	PENTADECANE, 2, 6, 10, 14-TETRA	19.09	9100	IJ
16.	UNKNOWN	19.27	2900	IJ
17.	UNKNOWN ALKANE	20.17	6800	IJ-
18.	UNKNOWN	20.30	12000	IJ
19.	UNKNOWN ALKANE	21.27	4900	IJ-
20.	UNKNOWN	22.17	15000	IJ
21.	UNKNOWN ALKANE	22.34	8100	IJ-
22.	UNKNOWN	22.67	5500	IJ
23. 55162-61-3	TETRACONTANE, 3, 5, 24-TRIMETH	23.10	4500	IJ
24.	UNKNOWN ALKANE	23.65	6500	IJ-
25. 26761-40-0	11, 2-BENZENEDICARBOXYLIC ACID	30.57	3800	IJ
26. 26761-40-0	11, 2-BENZENEDICARBOXYLIC ACID	31.76	27000	IJ
27. 26761-40-0	11, 2-BENZENEDICARBOXYLIC ACID	32.21	4100	IJ
28.	UNKNOWN	35.02	11000	IJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000065A

Lab Name: IT PITTSBURGH

Contract: 303486

27SS09CPDL

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: 020507101

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5060521D

Level: (low/med) LOW

Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7

Dilution Factor: 40

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	23000	IU
111-44-4	bis(2-Chloroethyl)Ether	23000	IU
95-57-8	2-Chlorophenol	23000	IU
541-73-1	1,3-Dichlorobenzene	23000	IU
106-46-7	1,4-Dichlorobenzene	23000	IU
100-51-6	Benzyl Alcohol	23000	IU
95-50-1	1,2-Dichlorobenzene	23000	IU
95-48-7	2-Methylphenol	23000	IU
108-60-1	bis(2-Chloroisopropyl)Ether	23000	IU
621-64-7	N-Nitroso-Di-n-Propylamine	23000	IU
67-72-1	Hexachloroethane	23000	IU
98-95-3	Nitrobenzene	23000	IU
78-59-1	Isophorone	23000	IU
88-75-5	2-Nitrophenol	23000	IU
105-67-9	2,4-Dimethylphenol	23000	IU
65-85-0	Benzoic Acid	110000	IU
111-91-1	bis(2-Chloroethoxy)Methane	23000	IU
120-83-2	2,4-Dichlorophenol	23000	IU
120-82-1	1,2,4-Trichlorobenzene	23000	IU
91-20-3	Naphthalene	23000	IU
106-47-8	4-Chloroaniline	23000	IU
87-68-3	Hexachlorobutadiene	23000	IU
59-50-7	4-Chloro-3-Methylphenol	23000	IU
91-57-6	2-Methylnaphthalene	23000	IU
77-47-4	Hexachlorocyclopentadiene	23000	IU
88-06-2	2,4,6-Trichlorophenol	23000	IU
95-95-4	2,4,5-Trichlorophenol	110000	IU
91-58-7	2-Chloronaphthalene	23000	IU
88-74-4	2-Nitroaniline	110000	IU
131-11-3	Dimethyl Phthalate	23000	IU
208-96-8	Acenaphthylene	23000	IU
606-20-2	2,6-Dinitrotoluene	23000	IU

Handwritten: 5/29/92

AR307261

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000066A

27SS09CPDL

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20507101

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5060521D

Level: (low/med) LOW

Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7

Dilution Factor: 40

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG Q

99-09-2	3-Nitroaniline	110000	IU
83-32-9	Acenaphthene	23000	IU
51-28-5	2,4-Dinitrophenol	110000	IU
100-02-7	4-Nitrophenol	110000	IU
132-64-9	Dibenzofuran	23000	IU
121-14-2	2,4-Dinitrotoluene	23000	IU
84-66-2	Diethylphthalate	23000	IU
7005-72-3	4-Chlorophenyl-phenylether	23000	IU
86-73-7	Fluorene	23000	IU
100-01-6	4-Nitroaniline	110000	IU
534-52-1	4,6-Dinitro-2-Methylphenol	110000	IU
86-30-6	N-Nitrosodiphenylamine (1)	23000	IU
101-55-3	4-Bromophenyl-phenylether	23000	IU
118-74-1	Hexachlorobenzene	23000	IU
87-86-5	Pentachlorophenol	110000	IU
85-01-8	Phenanthrene	23000	IU
120-12-7	Anthracene	23000	IU
84-74-2	Di-n-Butylphthalate	23000	IU
206-44-0	Fluoranthene	23000	IU
129-00-0	Pyrene	23000	IU
85-68-7	Butylbenzylphthalate	23000	IU
91-94-1	3,3'-Dichlorobenzidine	45000	IU
56-55-3	Benzo(a)Anthracene	23000	IU
218-01-9	Chrysene	23000	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	270000	ID
117-84-0	Di-n-Octyl Phthalate	22000	IDJ
205-99-2	Benzo(b)Fluoranthene	23000	IU
207-08-9	Benzo(k)Fluoranthene	23000	IU
50-32-8	Benzo(a)Pyrene	23000	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	23000	IU
53-70-3	Dibenz(a,h)Anthracene	23000	IU
191-24-2	Benzo(g,h,i)Perylene	23000	IU
	TOTAL 3&4 METHYLPHENOL	23000	IU
110-86-1	PYRIDINE	110000	IU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307262

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUND

EPA SAMPLE NO.

0000067A

27SS09CPDL

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507101

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5060521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 42 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.7 Dilution Factor: 40

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

Number TICs found: 6

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	19.07	13000	IJ
2.	UNKNOWN ALKANE	20.27	13000	IJ
3.	UNKNOWN	30.51	9400	IJ
4.	UNKNOWN ACID	31.22	19000	IJ
5.	UNKNOWN ACID	31.52	72000	IJ
6.	UNKNOWN	34.79	36000	IJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000068A

275509CPDUP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507102

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5050521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	610	IU
111-44-4	bis(2-Chloroethyl)Ether	610	IU
95-57-8	2-Chlorophenol	610	IU
541-73-1	1,3-Dichlorobenzene	610	IU
106-46-7	1,4-Dichlorobenzene	610	IU
100-51-6	Benzyl Alcohol	610	IU
95-50-1	1,2-Dichlorobenzene	610	IU
95-48-7	2-Methylphenol	610	IU
108-60-1	bis(2-Chloroisopropyl)Ether	610	IU
621-64-7	N-Nitroso-Di-n-Propylamine	610	IU
67-72-1	Hexachloroethane	610	IU
98-95-3	Nitrobenzene	610	IU
78-59-1	Isophorone	610	IU
88-75-5	2-Nitrophenol	610	IU
105-67-9	2,4-Dimethylphenol	610	IU
65-85-0	Benzoic Acid	3000	IU
111-91-1	bis(2-Chloroethoxy)Methane	610	IU
120-83-2	2,4-Dichlorophenol	610	IU
120-82-1	1,2,4-Trichlorobenzene	610	IU
91-20-3	Naphthalene	610	IU
106-47-8	4-Chloroaniline	610	IU
87-68-3	Hexachlorobutadiene	610	IU
59-50-7	4-Chloro-3-Methylphenol	610	IU
91-57-6	2-Methylnaphthalene	610	IU
77-47-4	Hexachlorocyclopentadiene	610	IU
88-06-2	2,4,6-Trichlorophenol	610	IU
95-95-4	2,4,5-Trichlorophenol	3000	IU
91-58-7	2-Chloronaphthalene	610	IU
88-74-4	2-Nitroaniline	3000	IU
131-11-3	Dimethyl Phthalate	610	IU
208-96-8	Acenaphthylene	610	IU
606-20-2	2,6-Dinitrotoluene	610	IU

AR307264

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000069A

27SS09CPDUP

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: 020507102
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5050521D
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92
 GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

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

CAS NO.	COMPOUND	UG/KG	Q
99-09-2	3-Nitroaniline	3000	IU
83-32-9	Acenaphthene	610	IU
51-28-5	2,4-Dinitrophenol	3000	IU
100-02-7	4-Nitrophenol	3000	IU
132-64-9	Dibenzofuran	610	IU
121-14-2	2,4-Dinitrotoluene	610	IU
84-66-2	Diethylphthalate	610	IU
7005-72-3	4-Chlorophenyl-phenylether	610	IU
86-73-7	Fluorene	610	IU
100-01-6	4-Nitroaniline	3000	IU
534-52-1	4,6-Dinitro-2-Methylphenol	3000	IU
86-30-6	N-Nitrosodiphenylamine (1)	610	IU
101-55-3	4-Bromophenyl-phenylether	610	IU
118-74-1	Hexachlorobenzene	610	IU
87-86-5	Pentachlorophenol	3000	IU
85-01-8	Phenanthrene	610	IU
120-12-7	Anthracene	610	IU
84-74-2	Di-n-Butylphthalate	610	IU
206-44-0	Fluoranthene	610	IU
129-00-0	Pyrene	610	IU
85-68-7	Butylbenzylphthalate	120	IJ
91-94-1	3,3'-Dichlorobenzidine	1200	IU
56-55-3	Benzo(a)Anthracene	610	IU
218-01-9	Chrysene	610	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	93000	IE
117-84-0	Di-n-Octyl Phthalate	22000	IE
205-99-2	Benzo(b)Fluoranthene	610	IU
207-08-9	Benzo(k)Fluoranthene	610	IU
50-32-8	Benzo(a)Pyrene	610	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	610	IU
53-70-3	Dibenz(a,h)Anthracene	610	IU
191-24-2	Benzo(g,h,i)Perylene	610	IU
	TOTAL 3&4 METHYLPHENOL	610	IU
110-86-1	PYRIDINE	3000	IU

(1) - Cannot be separated from Diphenylamine

FORM I 5V-2

1/87 Rev.

AR307265

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO:

0000070A

275509CPDUP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: 020507102

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5050521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.0 Dilution Factor: 1.0

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

Number TICs found: 30

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 55153-12-3	BENZENE, (1-METHYLETHYL)	6.57	430	IJ
2. 17257-81-7	ETHANONE, 1,13-ETHYLOXIRANYL	7.15	400	IJ
3. 563-80-4	2-BUTANONE, 3-METHYL-	7.50	1500	IJ
4.	UNKNOWN	13.09	680	IJx
5.	UNKNOWN DECANE	15.99	790	IJ
6. 294-62-2	CYCLODECANE	16.15	2400	IJ
7.	UNKNOWN	16.39	670	IJx
8.	UNKNOWN ALKANE	16.49	880	IJx
9.	UNKNOWN	17.20	1100	IJx
10.	UNKNOWN ALKANE	17.79	3100	IJ-
11.	UNKNOWN ALKANE	18.40	3100	IJ-
12.	UNKNOWN	18.67	1800	IJx
13.	UNKNOWN ALKANE	19.02	5300	IJ-
14. 1921-70-6	PENTADECANE, 2,6,10,14-TETRA	19.09	6400	IJ
15.	UNKNOWN ALKANE	20.17	6400	IJ-
16. 3891-98-3	DUDECANE, 2,6,10-TRIMETHYL-	20.30	11000	IJ
17.	UNKNOWN ALKANE	21.20	3800	IJ-
18.	UNKNOWN ALKANE	21.27	3800	IJ-
19.	UNKNOWN	21.70	3800	IJx
20. 63335-66-0	2H-1-BENZOPYRAN, 3,4,4A,5,6,	22.15	6400	IJ
21.	UNKNOWN	22.22	12000	IJx
22.	UNKNOWN ALKANE	22.34	6900	IJ-
23.	UNKNOWN	22.55	5100	IJx
24.	UNKNOWN	22.69	13000	IJ-
25.	UNKNOWN	23.22	8300	IJ-
26.	UNKNOWN ALKANE	23.67	4700	IJ-
27. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	30.61	15000	IJ
28. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	31.29	27000	IJ
29. 26761-40-0	1,2-BENZENEDICARBOXYLIC ACID	31.81	74000	IJ
30.	UNKNOWN	35.01	29000	IJ-

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000071A

27SS09CPDUPDL

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: 020507102
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5100521D
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92
 GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 40

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	24000	IU
111-44-4	bis(2-Chloroethyl)Ether	24000	IU
95-57-8	2-Chlorophenol	24000	IU
541-73-1	1,3-Dichlorobenzene	24000	IU
106-46-7	1,4-Dichlorobenzene	24000	IU
100-51-6	Benzyl Alcohol	24000	IU
95-50-1	1,2-Dichlorobenzene	24000	IU
95-48-7	2-Methylphenol	24000	IU
108-60-1	bis(2-Chloroisopropyl)Ether	24000	IU
621-64-7	N-Nitroso-Di-n-Propylamine	24000	IU
67-72-1	Hexachloroethane	24000	IU
98-95-3	Nitrobenzene	24000	IU
78-59-1	Isophorone	24000	IU
88-75-5	2-Nitrophenol	24000	IU
105-67-9	2,4-Dimethylphenol	24000	IU
65-85-0	Benzoic Acid	120000	IU
111-91-1	bis(2-Chloroethoxy)Methane	24000	IU
120-83-2	2,4-Dichlorophenol	24000	IU
120-82-1	1,2,4-Trichlorobenzene	24000	IU
91-20-3	Naphthalene	24000	IU
106-47-8	4-Chloroaniline	24000	IU
87-68-3	Hexachlorobutadiene	24000	IU
59-50-7	4-Chloro-3-Methylphenol	24000	IU
91-57-6	2-Methylnaphthalene	24000	IU
77-47-4	Hexachlorocyclopentadiene	24000	IU
88-06-2	2,4,6-Trichlorophenol	24000	IU
95-95-4	2,4,5-Trichlorophenol	120000	IU
91-58-7	2-Chloronaphthalene	24000	IU
88-74-4	2-Nitroaniline	120000	IU
131-11-3	Dimethyl Phthalate	24000	IU
208-96-8	Acenaphthylene	24000	IU
606-20-2	2,6-Dinitrotoluene	24000	IU

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000072A

27SS09CFDUPDL

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507102

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 51005210

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 40

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2	3-Nitroaniline	120000	IU
83-32-9	Acenaphthene	24000	IU
51-28-5	2,4-Dinitrophenol	120000	IU
100-02-7	4-Nitrophenol	120000	IU
132-64-9	Dibenzofuran	24000	IU
121-14-2	2,4-Dinitrotoluene	24000	IU
84-66-2	Diethylphthalate	24000	IU
7005-72-3	4-Chlorophenyl-phenylether	24000	IU
86-73-7	Fluorene	24000	IU
100-01-6	4-Nitroaniline	120000	IU
534-52-1	4,6-Dinitro-2-Methylphenol	120000	IU
86-30-6	N-Nitrosodiphenylamine (1)	24000	IU
101-55-3	4-Bromophenyl-phenylether	24000	IU
118-74-1	Hexachlorobenzene	24000	IU
87-86-5	Pentachlorophenol	120000	IU
85-01-8	Phenanthrene	24000	IU
120-12-7	Anthracene	24000	IU
84-74-2	Di-n-Butylphthalate	24000	IU
206-44-0	Fluoranthene	24000	IU
129-00-0	Pyrene	24000	IU
85-68-7	Butylbenzylphthalate	24000	IU
91-94-1	3,3'-Dichlorobenzidine	49000	IU
56-55-3	Benzo(a)Anthracene	24000	IU
218-01-9	Chrysene	24000	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	250000	ID
117-84-0	Di-n-Octyl Phthalate	20000	IDJ
205-99-2	Benzo(b)Fluoranthene	24000	IU
207-08-9	Benzo(k)Fluoranthene	24000	IU
50-32-8	Benzo(a)Pyrene	24000	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	24000	IU
53-70-3	Dibenz(a,h)Anthracene	24000	IU
191-24-2	Benzo(g,h,i)Perylene	24000	IU
	TOTAL 3&4 METHYLPHENOL	24000	IU
110-86-1	PYRIDINE	120000	IU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307268

1F
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS **0000073A**

EPA SAMPLE NO.

27SS09CPDUPDL

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: 020507102
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 51005210
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 46 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92
 GPC Cleanup: (Y/N) N pH: 6.1 Dilution Factor: 40

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

Number TICs found: 4

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN ALKANE	19.09	11000	IJ
2.	UNKNOWN ALKANE	20.29	12000	IJ
3.	UNKNOWN	31.52	71000	IJ
4.	UNKNOWN	34.82	26000	IJ

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000074A

2755125AP

Lab Name: IT PITTSBURGH

Contract: 303486

Lab Code: ITPA Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20507103

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5010529D

Level: (low/med) LOW

Date Received: 05/09/92

% Moisture: not dec. 15 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/29/92

GPC Cleanup: (Y/N) N pH: 6.4

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
108-95-2	Phenol	390	U
111-44-4	bis(2-Chloroethyl)Ether	390	U
95-57-8	2-Chlorophenol	390	U
541-73-1	1,3-Dichlorobenzene	390	U
106-46-7	1,4-Dichlorobenzene	390	U
95-50-1	1,2-Dichlorobenzene	390	U
95-48-7	2-Methylphenol	390	U
621-64-7	N-Nitroso-Di-n-Propylamine	390	U
67-72-1	Hexachloroethane	390	U
98-95-3	Nitrobenzene	390	U
78-59-1	Isophorone	390	U
88-75-5	2-Nitrophenol	390	U
105-67-9	2,4-Dimethylphenol	390	U
111-91-1	bis(2-Chloroethoxy)Methane	390	U
120-83-2	2,4-Dichlorophenol	390	U
120-82-1	1,2,4-Trichlorobenzene	390	U
91-20-3	Naphthalene	390	U
106-47-8	4-Chloroaniline	390	U
87-68-3	Hexachlorobutadiene	390	U
59-50-7	4-Chloro-3-Methylphenol	390	U
91-57-6	2-Methylnaphthalene	390	U
77-47-4	Hexachlorocyclopentadiene	390	U
88-06-2	2,4,6-Trichlorophenol	390	U
95-95-4	2,4,5-Trichlorophenol	1900	U
91-58-7	2-Chloronaphthalene	390	U
88-74-4	2-Nitroaniline	1900	U
131-11-3	Dimethyl Phthalate	390	U
208-96-8	Acenaphthylene	390	U
606-20-2	2,6-Dinitrotoluene	390	U
	Benzyl Alcohol	390	U
	Bis(2-chloroisopropyl)Ether	390	U
	Benzoic Acid	1900	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000075A

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20507103
 Sample wt/vol: 30.1 (g/mL) 6 Lab File ID: 5010529D
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 15 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/29/92
 GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.0

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1900	IU
83-32-9	Acenaphthene	390	IU
51-28-5	2,4-Dinitrophenol	1900	IU
100-02-7	4-Nitrophenol	1900	IU
132-64-9	Dibenzofuran	390	IU
121-14-2	2,4-Dinitrotoluene	390	IU
84-66-2	Diethylphthalate	390	IU
7005-72-3	4-Chlorophenyl-phenylether	390	IU
86-73-7	Fluorene	390	IU
100-01-6	4-Nitroaniline	1900	IU
534-52-1	4,6-Dinitro-2-Methylphenol	1900	IU
86-30-6	N-Nitrosodiphenylamine (1)	390	IU
101-55-3	4-Bromophenyl-phenylether	390	IU
118-74-1	Hexachlorobenzene	390	IU
87-86-5	Pentachlorophenol	1900	IU
85-01-8	Phenanthrene	390	IU
120-12-7	Anthracene	390	IU
84-74-2	Di-n-Butylphthalate	66	IBJ
206-44-0	Fluoranthene	390	IU
129-00-0	Pyrene	390	IU
85-68-7	Butylbenzylphthalate	390	IU
91-94-1	3,3'-Dichlorobenzidine	770	IU
56-55-3	Benzo(a)Anthracene	390	IU
218-01-9	Chrysene	390	IU
117-81-7	bis(2-Ethylhexyl)Phthalate	680	I
117-84-0	Di-n-Octyl Phthalate	82	IJ
205-99-2	Benzo(b)Fluoranthene	390	IU
207-08-9	Benzo(k)Fluoranthene	390	IU
50-32-8	Benzo(a)Pyrene	390	IU
193-39-5	Indeno(1,2,3-cd)Pyrene	390	IU
53-70-3	Dibenz(a,h)Anthracene	390	IU
191-24-2	Benzo(g,h,i)Perylene	390	IU
	TOTAL METHYLPHENOL	390	IU
110-86-1	PYRIDINE	1900 390	IU

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

AR307271

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000076A

27SS123AP

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20507103
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5010529D
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 15 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/29/92
 GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	6.98	170	1J
2. 17257-81-7	ETHANONE, 1-(3-ETHYLOXIRANYL)	7.42	520	1J
3.	UNKNOWN	7.63	590	1J
4.	UNKNOWN	8.03	1300	1J
5. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	21.69	400	1J

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000077A

Lab Name: IT PITTSBURGH

Contract: 303486

ITW27SS17SAP

Lab Code: ITPA

Case No.: BF4

SAS No.: _____

SDG No.: BF004

Matrix: (soil/water) SOIL

Lab Sample ID: Q20507104

Sample wt/vol: 30.1 (g/mL) G

Lab File ID: 5010521D

Level: (low/med) LOW

Date Received: 05/09/92

% Moisture: not dec. 24 dec. _____

Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC

Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 4.6

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>		Q
108-95-2	Phenol	430	IU	
111-44-4	bis(2-Chloroethyl)Ether	430	IU	
95-57-8	2-Chlorophenol	430	IU	
541-73-1	1,3-Dichlorobenzene	430	IU	
106-46-7	1,4-Dichlorobenzene	430	IU	
100-51-6	Benzyl Alcohol	430	IU	
95-50-1	1,2-Dichlorobenzene	430	IU	
95-48-7	2-Methylphenol	430	IU	
108-60-1	bis(2-Chloroisopropyl)Ether	430	IU	
621-64-7	N-Nitroso-Di-n-Propylamine	430	IU	
67-72-1	Hexachloroethane	430	IU	
98-95-3	Nitrobenzene	430	IU	
78-59-1	Isophorone	430	IU	
88-75-5	2-Nitrophenol	430	IU	
105-67-9	2,4-Dimethylphenol	430	IU	
65-85-0	Benzoic Acid	2100	IU	
111-91-1	bis(2-Chloroethoxy)Methane	430	IU	
120-83-2	2,4-Dichlorophenol	430	IU	
120-82-1	1,2,4-Trichlorobenzene	430	IU	
91-20-3	Naphthalene	430	IU	
106-47-8	4-Chloroaniline	430	IU	
87-68-3	Hexachlorobutadiene	430	IU	
59-50-7	4-Chloro-3-Methylphenol	430	IU	
91-57-6	2-Methylnaphthalene	430	IU	
77-47-4	Hexachlorocyclopentadiene	430	IU	
88-06-2	2,4,6-Trichlorophenol	430	IU	
95-95-4	2,4,5-Trichlorophenol	2100	IU	
91-58-7	2-Chloronaphthalene	430	IU	
88-74-4	2-Nitroaniline	2100	IU	
131-11-3	Dimethyl Phthalate	430	IU	
208-96-8	Acenaphthylene	430	IU	
606-20-2	2,6-Dinitrotoluene	430	IU	

AR307273

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0000078A

ITW27S817SAP

Lab Name: IT PITTSBURGH Contract: 303486

Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004

Matrix: (soil/water) SOIL Lab Sample ID: Q20507104

Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5010521D

Level: (low/med) LOW Date Received: 05/09/92

% Moisture: not dec. 24 dec. _____ Date Extracted: 05/14/92

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92

GPC Cleanup: (Y/N) N pH: 4.6 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
99-09-2	-----3-Nitroaniline	2100	U
83-32-9	-----Acenaphthene	430	U
51-28-5	-----2,4-Dinitrophenol	2100	U
100-02-7	-----4-Nitrophenol	2100	U
132-64-9	-----Dibenzofuran	430	U
121-14-2	-----2,4-Dinitrotoluene	430	U
84-66-2	-----Diethylphthalate	430	U
7005-72-3	-----4-Chlorophenyl-phenylether	430	U
86-73-7	-----Fluorene	430	U
100-01-6	-----4-Nitroaniline	2100	U
534-52-1	-----4,6-Dinitro-2-Methylphenol	2100	U
86-30-6	-----N-Nitrosodiphenylamine (1)	430	U
101-55-3	-----4-Bromophenyl-phenylether	430	U
118-74-1	-----Hexachlorobenzene	430	U
87-86-5	-----Pentachlorophenol	2100	U
85-01-8	-----Phenanthrene	430	U
120-12-7	-----Anthracene	430	U
84-74-2	-----Di-n-Butylphthalate	73	BJ
206-44-0	-----Fluoranthene	430	U
129-00-0	-----Pyrene	430	U
85-68-7	-----Butylbenzylphthalate	430	U
91-94-1	-----3,3'-Dichlorobenzidine	870	U
56-55-3	-----Benzo(a)Anthracene	76	J
218-01-9	-----Chrysene	82	J
117-81-7	-----bis(2-Ethylhexyl)Phthalate	430	U
117-84-0	-----Di-n-Octyl Phthalate	430	U
205-99-2	-----Benzo(b)Fluoranthene	430	U
207-08-9	-----Benzo(k)Fluoranthene	430	U
50-32-8	-----Benzo(a)Pyrene	430	U
193-39-5	-----Indeno(1,2,3-cd)Pyrene	430	U
53-70-3	-----Dibenz(a,h)Anthracene	430	U
191-24-2	-----Benzo(g,h,i)Perylene	430	U
-----	-----TOTAL 3&4 METHYLPHENOL	430	U
110-86-1	-----PYRIDINE	2100	U

(1) - Cannot be separated from Diphenylamine
FORM I SV-2

AR307274

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0000079A

ITW27SS17SAP

Lab Name: IT PITTSBURGH Contract: 303486
 Lab Code: ITPA Case No.: BF4 SAS No.: _____ SDG No.: BF004
 Matrix: (soil/water) SOIL Lab Sample ID: Q20507104
 Sample wt/vol: 30.1 (g/mL) G Lab File ID: 5010521D
 Level: (low/med) LOW Date Received: 05/09/92
 % Moisture: not dec. 24 dec. _____ Date Extracted: 05/14/92
 Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/21/92
 GPC Cleanup: (Y/N) N pH: 4.6 Dilution Factor: 1.0

Number TICs found: 5

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	7.38	350	IJ
2.	UNKNOWN	7.58	340	IJ
3.	UNKNOWN	7.88	970	IJ
4. 498-07-7	1,6-ANHYDRO-BETA-D-GLUCOPYRA	15.85	1400	IJ
5. 17851-53-5	1,2-BENZENEDICARBOXYLIC ACID	21.05	270	IJ

1 0000084A
 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2603CP

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20505205

Level (low/med): LOW Date Received: 05/07/92

% Solids: 76.8

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

CAS No.	Analyte	Concentration	Q	IM
17429-90-5	Aluminum	3100		P
17440-36-0	Antimony	27.5	N	P
17440-38-2	Arsenic	1.1	N	F
17440-39-3	Barium	12.9		P
17440-41-7	Beryllium	0.26		P
17440-43-9	Cadmium	0.81		P
17440-70-2	Calcium	426		P
17440-47-3	Chromium	81.3		P
17440-48-4	Cobalt	2.3		P
17440-50-8	Copper	8.5	N	P
17439-89-6	Iron	6040		P
17439-92-1	Lead	185	N*	F
17439-95-4	Magnesium	542		P
17439-96-5	Manganese	50.3	*	P
17439-97-6	Mercury	0.14		CV
17440-02-0	Nickel	4.7		P
17440-09-7	Potassium	246		P
17782-49-2	Selenium	0.26	N	F
17440-22-4	Silver	1.0		P
17440-23-5	Sodium	90.1		P
17440-28-0	Thallium	0.26	W	F
17440-62-2	Vanadium	11.1		P
17440-66-6	Zinc	42.3	E	P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:
 ARTIFACTS: STONES

1 0000085A
 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2603CPD

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20505206

Level (low/med): LOW Date Received: 05/07/92

% Solids: 70.7

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	3750		P
17440-36-0	Antimony	24.1	N	P
17440-38-2	Arsenic	1.4	N	F
17440-39-3	Barium	12.8		P
17440-41-7	Beryllium	0.28		P
17440-43-9	Cadmium	0.76		P
17440-70-2	Calcium	513		P
17440-47-3	Chromium	65.9		P
17440-48-4	Cobalt	1.8		P
17440-50-8	Copper	6.6	N	P
17439-89-6	Iron	6120		P
17439-92-1	Lead	148	N*	F
17439-95-4	Magnesium	380		P
17439-96-5	Manganese	46.9	*	P
17439-97-6	Mercury	0.13		CV
17440-02-0	Nickel	4.2		P
17440-09-7	Potassium	250		P
17782-49-2	Selenium	0.27	N	F
17440-22-4	Silver	1.1		P
17440-23-5	Sodium	106		P
17440-28-0	Thallium	0.27		F
17440-62-2	Vanadium	9.8		P
17440-66-6	Zinc	38.2	E	P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts: YES

Comments:

ARTIFACTS: STONES

AR307277

0000086A

EPA SAMPLE NO.

2612SA

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20505207

Level (low/med): LOW Date Received: 05/07/92

% Solids: 70.8

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	8610		P
17440-36-0	Antimony	4.6	N	P
17440-38-2	Arsenic	1.9	N	F
17440-39-3	Barium	5.4		P
17440-41-7	Beryllium	0.99		P
17440-43-9	Cadmium	0.54		P
17440-70-2	Calcium	99.2		P
17440-47-3	Chromium	8.8		P
17440-48-4	Cobalt	11.2		P
17440-50-8	Copper	65.6	N	P
17439-89-6	Iron	147000		P
17439-92-1	Lead	8.4	N*	F
17439-95-4	Magnesium	135		P
17439-96-5	Manganese	81.3	*	P
17439-97-6	Mercury	0.13		CV
17440-02-0	Nickel	1.9		P
17440-09-7	Potassium	100		P
17782-49-2	Selenium	0.28	WN	F
17440-22-4	Silver	1.1		P
17440-23-5	Sodium	50.6		P
17440-28-0	Thallium	0.28		F
17440-62-2	Vanadium	194		P
17440-66-6	Zinc	34.8	E	P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

1
INORGANIC ANALYSES DATA SHEET

0000087A

EPA SAMPLE NO.

2617SA

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20505208

Level (low/med): LOW Date Received: 05/07/92

% Solids: 74.4

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

ICAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	37600		P
17440-36-0	Antimony	4.5	U	N
17440-38-2	Arsenic	0.53	U	N
17440-39-3	Barium	45.7	B	P
17440-41-7	Beryllium	1.9		P
17440-43-9	Cadmium	0.53	U	P
17440-70-2	Calcium	965	B	P
17440-47-3	Chromium	1.6	B	P
17440-48-4	Cobalt	57.1		P
17440-50-8	Copper	28.9		N
17439-89-6	Iron	49900		P
17439-92-1	Lead	2.8		N*
17439-95-4	Magnesium	2150		P
17439-96-5	Manganese	96		*
17439-97-6	Mercury	0.13	U	CV
17440-02-0	Nickel	17.3		P
17440-09-7	Potassium	1850		P
17782-49-2	Selenium	0.27	U	N
17440-22-4	Silver	1.1	U	P
17440-23-5	Sodium	43.2	B	P
17440-28-0	Thallium	0.27	U	F
17440-62-2	Vanadium	152		P
17440-66-6	Zinc	66.5		E
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

AR307279

0000088A

EPA SAMPLE NO.

2703CP

Lab Name: ITAS_PITTSBURGH

Contract: BRIDGE_FIR

Lab Code: ITPA

Case No.: 30348

SAS No.:

SDG No.: BF0004

Matrix (soil/water): SOIL

Lab Sample ID: Q20506706

Level (low/med): LOW

Date Received: 05/08/92

% Solids: 66.7

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	4200		P
17440-36-0	Antimony	15.4	N	P
17440-38-2	Arsenic	1.6	N	F
17440-39-3	Barium	13.9		P
17440-41-7	Beryllium	0.29		P
17440-43-9	Cadmium	1.4		P
17440-70-2	Calcium	162		P
17440-47-3	Chromium	47.7		P
17440-48-4	Cobalt	2.0		P
17440-50-8	Copper	6.2	N	P
17439-89-6	Iron	5240		P
17439-92-1	Lead	122	SN*	F
17439-95-4	Magnesium	189		P
17439-96-5	Manganese	30.6	*	P
17439-97-6	Mercury	0.15		CV
17440-02-0	Nickel	5.5		P
17440-09-7	Potassium	135		P
17782-49-2	Selenium	0.29	N	F
17440-22-4	Silver	1.2		P
17440-23-5	Sodium	55.5		P
17440-28-0	Thallium	0.29		F
17440-62-2	Vanadium	8.4		P
17440-66-6	Zinc	43.1	E	P
	Cyanide			NR

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: BROWN

Clarity After:

Artifacts: YES

Comments:

ARTIFACTS: STONES

AR307280

1 0000089A
 INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

2709CP

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20507101

Level (low/med): LOW Date Received: 05/09/92

% Solids: 58.4

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	4170		P
17440-36-0	Antimony	5.7	N	P
17440-38-2	Arsenic	3.3	N	F
17440-39-3	Barium	13.1		P
17440-41-7	Beryllium	0.33		P
17440-43-9	Cadmium	0.66		P
17440-70-2	Calcium	943		P
17440-47-3	Chromium	211		P
17440-48-4	Cobalt	2.5		P
17440-50-8	Copper	9.5	N	P
17439-89-6	Iron	8660		P
17439-92-1	Lead	17.5	N*	F
17439-95-4	Magnesium	512		P
17439-96-5	Manganese	111	*	P
17439-97-6	Mercury	0.16		CV
17440-02-0	Nickel	5.0		P
17440-09-7	Potassium	389		P
17782-49-2	Selenium	0.34	WN	F
17440-22-4	Silver	1.3		P
17440-23-5	Sodium	81.0		P
17440-28-0	Thallium	0.34		F
17440-62-2	Vanadium	9.7		P
17440-66-6	Zinc	77.1	E	P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

AR307281

2709CPD

Lab Name: ITAS_PITTSBURGH _____ Contract: BRIDGE_FIR _____

Lab Code: ITPA___ Case No.: 30348 SAS No.: _____ SDG No.: BF0004

Matrix (soil/water): SOIL_____ Lab Sample ID: Q20507102_

Level (low/med): LOW_____ Date Received: 05/09/92

% Solids: _____54.1

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

CAS No.	Analyte	Concentration	C	Q	M
17429-90-5	Aluminum	2960			P
17440-36-0	Antimony	6.2	U	N	P
17440-38-2	Arsenic	0.75	B	N	F
17440-39-3	Barium	7.1	B		P
17440-41-7	Beryllium	0.37	U		P
17440-43-9	Cadmium	0.73	U		P
17440-70-2	Calcium	282	B		P
17440-47-3	Chromium	190			P
17440-48-4	Cobalt	0.76	B		P
17440-50-8	Copper	7.0	B	N	P
17439-89-6	Iron	3270			P
17439-92-1	Lead	10.9		N*	F
17439-95-4	Magnesium	220	B		P
17439-96-5	Manganese	19.6		*	P
17439-97-6	Mercury	0.18	U		CV
17440-02-0	Nickel	3.2	B		P
17440-09-7	Potassium	135	U		P
17782-49-2	Selenium	0.36	U	N	F
17440-22-4	Silver	1.5	U		P
17440-23-5	Sodium	58.9	B		P
17440-28-0	Thallium	0.36	U		F
17440-62-2	Vanadium	6.2	B		P
17440-66-6	Zinc	56.1		E	P
	Cyanide				NR

Color Before: BROWN_____ Clarity Before: _____ Texture: MEDIUM

Color After: BROWN_____ Clarity After: _____ Artifacts: _____

Comments:

2712SA

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20507103

Level (low/med): LOW Date Received: 05/09/92

% Solids: 85.5

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	3610		P
17440-36-0	Antimony	3.81	N	P
17440-38-2	Arsenic	0.451	N	F
17440-39-3	Barium	86.31		P
17440-41-7	Beryllium	0.391		P
17440-43-9	Cadmium	0.451		P
17440-70-2	Calcium	2351		P
17440-47-3	Chromium	0.451		P
17440-48-4	Cobalt	2.81		P
17440-50-8	Copper	4.71	N	P
17439-89-6	Iron	103001		P
17439-92-1	Lead	2.61	N*	F
17439-95-4	Magnesium	7421		P
17439-96-5	Manganese	78.41	*	P
17439-97-6	Mercury	0.111		CV
17440-02-0	Nickel	1.61		P
17440-09-7	Potassium	11501		P
17782-49-2	Selenium	0.221	N	F
17440-22-4	Silver	0.891		P
17440-23-5	Sodium	35.71		P
17440-28-0	Thallium	0.221		F
17440-62-2	Vanadium	13.01		P
17440-66-6	Zinc	24.51	E	P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

AR307283

1
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

0000092A

2717SA

Lab Name: ITAS_PITTSBURGH Contract: BRIDGE_FIR

Lab Code: ITPA Case No.: 30348 SAS No.: SDG No.: BF0004

Matrix (soil/water): SOIL Lab Sample ID: Q20507104

Level (low/med): LOW Date Received: 05/09/92

% Solids: 75.2

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

CAS No.	Analyte	Concentration	Q	M
17429-90-5	Aluminum	31900		P
17440-36-0	Antimony	4.4	U	N P
17440-38-2	Arsenic	0.52	U	WN F
17440-39-3	Barium	138		P
17440-41-7	Beryllium	2.0		P
17440-43-9	Cadmium	0.52	U	P
17440-70-2	Calcium	655	B	P
17440-47-3	Chromium	5.0		P
17440-48-4	Cobalt	61.1		P
17440-50-8	Copper	78.4		N P
17439-89-6	Iron	82700		P
17439-92-1	Lead	10.5		SN* F
17439-95-4	Magnesium	15200		P
17439-96-5	Manganese	2420		* P
17439-97-6	Mercury	0.13	U	CV
17440-02-0	Nickel	12.9		P
17440-09-7	Potassium	16800		P
17782-49-2	Selenium	0.26	U	WN F
17440-22-4	Silver	1.0	U	P
17440-23-5	Sodium	111	B	P
17440-28-0	Thallium	1.2	B	F
17440-62-2	Vanadium	203		P
17440-66-6	Zinc	187		E P
	Cyanide			NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: BROWN Clarity After: Artifacts:

Comments:

SPLP ANALYSIS

AR307285

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-15-SS08-SP
Sample Date: 4/21/92
Lab Sample ID: Q20416002
SPLP Extraction Date: 4/30/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	160
Antimony	60.0 U
Arsenic	100 U
Barium	275
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	4280
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	117
Lead	50.0 U
Magnesium	1070
Manganese	10.0 U
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	1980
Thallium	10.0 U
Vanadium	20.0 U
Zinc	38.5

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-16-SS04-SP

Sample Date: 4/23/92

Lab Sample ID: Q20416004

SPLP Extraction Date: 4/30/92

Analysis Date: 5/20, 22, 27/92

Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	78.3
Antimony	60.0 U
Arsenic	100 U
Barium	311
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	2980
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	84.4
Lead	50.0 U
Magnesium	634
Manganese	33.6
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	2130
Thallium	10.0 U
Vanadium	20.0 U
Zinc	43.3

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-17-SS07-SP
Sample Date: 4/24/92
Lab Sample ID: Q20416006
SPLP Extraction Date: 4/30/92
Analysis Date: 5/20, 22, 27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	107
Arsenic	100 U
Barium	363
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	12000
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	1610
Manganese	42.6
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	1840
Thallium	10.0 U
Vanadium	20.0 U
Zinc	44.6

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-21-SS02-SP

Sample Date: 4/29/92

Lab Sample ID: Q20422203

SPLP Extraction Date: 5/11/92

Analysis Date: 5/20, 22, 27/92

Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	426
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	5160
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	556
Manganese	150
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	2290
Thallium	10.0 U
Vanadium	20.0 U
Zinc	29.8

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-21-SS08-SP
Sample Date: 4/29/92
Lab Sample ID: Q20422204
SPLP Extraction Date: 5/11/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	445
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	2260
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	3100
Manganese	27.3
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	3140
Thallium	10.0 U
Vanadium	20.0 U
Zinc	37.8

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-22-SS04-SP
Sample Date: 4/30/92
Lab Sample ID: Q20422207
SPLP Extraction Date: 5/11/92
Analysis Date: 5/20, 22, 27/92
Mercury: 5/20/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	50.0 U	--
Antimony	61.2	--
Arsenic	100 U	98.3
Barium	493	95.5
Beryllium	5.0 U	--
Cadmium	5.0 U	101.0
Calcium	11400	--
Chromium	10.0 U	99.1
Cobalt	20.0 U	--
Copper	25.0 U	--
Iron	30.0 U	--
Lead	50.0 U	101.6
Magnesium	1080	--
Manganese	164	--
Mercury	0.20 U	103.9
Nickel	40.0 U	--
Potassium	2000 U	--
Selenium	100 U	96.6
Silver	10.0 U	69.4
Sodium	2470	--
Thallium	10.0 U	109.2
Vanadium	20.0 U	--
Zinc	44.4	--

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-23-SS03-SP
Sample Date: 5/01/92
Lab Sample ID: Q20422210
SPLP Extraction Date: 5/11/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	347
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	7570
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	1570
Manganese	59.0
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	1750
Thallium	10.0 U
Vanadium	20.0 U
Zinc	37.3

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-24-SS04-SP

Sample Date: 5/04/92

Lab Sample ID: Q20422213

SPLP Extraction Date: 5/11/92

Analysis Date: 5/20,22,27/92

Mercury: 5/20/92

Parameter	Concentration	
	µg/L	
Aluminum	50.0	U
Antimony	122	
Arsenic	100	U
Barium	338	
Beryllium	5.0	U
Cadmium	5.0	U
Calcium	2630	
Chromium	10.0	U
Cobalt	20.0	U
Copper	25.0	U
Iron	30.0	U
Lead	50.0	U
Magnesium	831	
Manganese	10.0	U
Mercury	0.20	U
Nickel	40.0	U
Potassium	2000	U
Selenium	100	U
Silver	10.0	U
Sodium	1870	
Thallium	10.0	U
Vanadium	20.0	U
Zinc	38.1	

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-24-SS08-SP
Sample Date: 5/04/92
Lab Sample ID: Q20422214
SPLP Extraction Date: 5/11/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	336
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	3260
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	960
Manganese	95.1
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	1810
Thallium	10.0 U
Vanadium	20.0 U
Zinc	39.7

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-25-SS04-SP
Sample Date: 5/05/92
Lab Sample ID: Q20422216
SPLP Extraction Date: 5/11/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	372
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	6420
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	1190
Manganese	10.0 U
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	2030
Thallium	10.0 U
Vanadium	20.0 U
Zinc	38.4

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-26-SS04-SP
Sample Date: 5/06/92
Lab Sample ID: Q20505702
SPLP Extraction Date: 5/18/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration µg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	389
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	5670
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	35.8
Lead	50.0 U
Magnesium	1530
Manganese	13.7
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	3540
Thallium	10.0 U
Vanadium	20.0 U
Zinc	46.1

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-27-SS03-SP

Sample Date: 5/07/92

Lab Sample ID: Q20505705

SPLP Extraction Date: 5/18/92

Analysis Date: 5/20,22,27/92

Mercury: 5/20/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	50.0 U	99.3/98.1
Antimony	60.0 U	92.7/89.7
Arsenic	100 U	--
Barium	367	--
Beryllium	5.0 U	99.0/98.2
Cadmium	5.0 U	--
Calcium	3570	--
Chromium	10.0 U	--
Cobalt	20.0 U	102.0/102.1
Copper	25.0 U	101.0/100.1
Iron	30.0 U	104.1/102.5
Lead	50.0 U	--
Magnesium	1370	--
Manganese	516	101.2/99.6
Mercury	0.20 U	--
Nickel	40.0 U	109.1/106.7
Potassium	2000 U	--
Selenium	100 U	--
Silver	10.0 U	--
Sodium	1860	--
Thallium	10.0 U	--
Vanadium	20.0 U	89.9/89.2
Zinc	42.9	98.9/97.7

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Metals Analysis

Client Sample ID: ITW-27-SS03-SP DUP
Sample Date: 5/07/92
Lab Sample ID: Q20505706
SPLP Extraction Date: 5/18/92
Analysis Date: 5/20,22,27/92
Mercury: 5/20/92

Parameter	Concentration μg/L
Aluminum	50.0 U
Antimony	60.0 U
Arsenic	100 U
Barium	277
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	2310
Chromium	10.0 U
Cobalt	20.0 U
Copper	25.0 U
Iron	30.0 U
Lead	50.0 U
Magnesium	841
Manganese	122
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Sodium	1650
Thallium	10.0 U
Vanadium	20.0 U
Zinc	20.7

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-15-SS03-SP

Sample Date: 4/21/92

Lab Sample ID: Q20416001

SPLP Extraction Date: 4/30/92

Analysis Date: 5/04/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	19	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	26	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d₈ 102%

Bromofluorobenzene 101%

1,2-Dichloroethane-d₄ 106%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/0

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-16-SS02-SP

Sample Date: 4/23/92

Lab Sample ID: Q20416003

SPLP Extraction Date: 4/30/92

Analysis Date: 5/04/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	4 J	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	1 J	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	2 J	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference:	#1
Toluene-d ₈	99%
Bromofluorobenzene	89%
1,2-Dichloroethane-d ₄	97%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-17-SS04-SP

Sample Date: 4/24/92

Lab Sample ID: Q20416005

SPLP Extraction Date: 4/30/92

Analysis Date: 5/04/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	25	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d₈ 104%

Bromofluorobenzene 99%

1,2-Dichloroethane-d₄ 103%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-21-SS05-SP

Sample Date: 4/29/92

Lab Sample ID: Q20422201

SPLP Extraction Date: 5/11/92

Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 J	1,1,2-Trichloroethane	5 U
Acetone	17	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	2 J	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	1 JX

Surrogate Spike
Percent Recovery

Method Blank Reference: #2

Toluene-d₈ 101%
Bromofluorobenzene 102%
1,2-Dichloroethane-d₄ 100%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-21-SS09-SP

Sample Date: 4/29/92

Lab Sample ID: Q20422202

SPLP Extraction Date: 5/11/92

Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	22	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	4 JX	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	2 J
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	12 X

Surrogate Spike
Percent Recovery

Method Blank Reference: #2

Toluene-d₈ 93%
Bromofluorobenzene 98%
1,2-Dichloroethane-d₄ 94%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-22-SS03-SP
Sample Date: 4/30/92
Lab Sample ID: Q20422205
SPLP Extraction Date: 5/11/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 J	1,1,2-Trichloroethane	5 U
Acetone	9 J	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	2 J	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #2

Toluene-d₈ 102%
Bromofluorobenzene 106%
1,2-Dichloroethane-d₄ 100%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-23-SS04-SP

Sample Date: 5/01/92

Lab Sample ID: Q20422209

SPLP Extraction Date: 5/11/92

Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	51	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference:	#2
Toluene-d ₈	101%
Bromofluorobenzene	106%
1,2-Dichloroethane-d ₄	103%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-24-SS03-SP
Sample Date: 5/04/92
Lab Sample ID: Q20422211
SPLP Extraction Date: 5/11/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 J	1,1,2-Trichloroethane	5 U
Acetone	22	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	2 JX

Surrogate Spike
Percent Recovery

Method Blank Reference: #2

Toluene-d₈ 104%
Bromofluorobenzene 107%
1,2-Dichloroethane-d₄ 103%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-24-SS09-SP

Sample Date: 5/04/92

Lab Sample ID: Q20422212

SPLP Extraction Date: 5/11/92

Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	9 J	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	1 J
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	4 JX

Surrogate Spike
Percent Recovery

Method Blank Reference: #2

Toluene-d₈ 105%
Bromofluorobenzene 107%
1,2-Dichloroethane-d₄ 107%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-25-SS04-SP

Sample Date: 5/05/92

Lab Sample ID: Q20422215

SPLP Extraction Date: 5/11/92

Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	12	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #3

Toluene-d ₈	99%
Bromofluorobenzene	93%
1,2-Dichloroethane-d ₄	95%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-26-SS02-SP

Sample Date: 5/06/92

Lab Sample ID: Q20505701

SPLP Extraction Date: 5/18/92

Analysis Date: 5/26/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	1 J
Methylene chloride	3 J	1,1,2-Trichloroethane	5 U
Acetone	27	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	3 J	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	3 J

Surrogate Spike
Percent Recovery

Method Blank Reference: #4

Toluene-d₈ 90%

Bromofluorobenzene 86%

1,2-Dichloroethane-d₄ 94%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/0

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-27-SS03-SP

Sample Date: 5/07/92

Lab Sample ID: Q20505703

SPLP Extraction Date: 5/18/92

Analysis Date: 5/26/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	2 J	1,1,2-Trichloroethane	5 U
Acetone	5 J	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference:	#4
Toluene-d ₈	98%
Bromofluorobenzene	87%
1,2-Dichloroethane-d ₄	96%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Volatile Organic Analysis

Client Sample ID: ITW-27-SS03-SP DUP
Sample Date: 5/07/92
Lab Sample ID: Q20505704
SPLP Extraction Date: 5/18/92
Analysis Date: 5/26/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 J	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #4

Toluene-d₈ 96%
Bromofluorobenzene 86%
1,2-Dichloroethane-d₄ 92%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/078

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-15-SS08-SP

Sample Date: 4/21/92

Lab Sample ID: Q20416002

SPLP Extraction Date: 4/30/92

Extraction Date: 5/04/92

Analysis Date: 5/18/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 60%
2-Fluorobiphenyl 57%
Terphenyl 85%

Method Blank Reference:

#1
Phenol-d₆ 53%
2-Fluorophenol 52%
2,4,6-Tribromophenol 68%

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-16-SS04-SP

Sample Date: 4/23/92

Lab Sample ID: Q20416004

SPLP Extraction Date: 4/30/92

Extraction Date: 5/04/92

Analysis Date: 5/15/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d ₅	65%
2-Fluorobiphenyl	71%
Terphenyl	119%

Method Blank Reference:

Phenol-d ₆	56%
2-Fluorophenol	54%
2,4,6-Tribromophenol	90%

SPLP Semivolatle Organic Analysis

Client Sample ID: ITW-17-SS07-SP

Sample Date: 4/24/92

Lab Sample ID: Q20416006

SPLP Extraction Date: 4/30/92

Extraction Date: 5/04/92

Analysis Date: 5/18/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	6 J	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#1

Nitrobenzene-d₅ 86%
 2-Fluorobiphenyl 89%
 Terphenyl 104%

Phenol-d₆ 78%
 2-Fluorophenol 80%
 2,4,6-Tribromophenol 106%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-21-SS02-SP

Sample Date: 4/29/92

Lab Sample ID: Q20422203

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	1 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 65%
2-Fluorobiphenyl 72%
Terphenyl 93%

Method Blank Reference:

#2
Phenol-d₆ 54%
2-Fluorophenol 60%
2,4,6-Tribromophenol 121%

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-21-SS08-SP

Sample Date: 4/29/92

Lab Sample ID: Q20422204

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	1 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Dibenzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d ₅	75%
2-Fluorobiphenyl	76%
Terphenyl	94%

Method Blank Reference:

	#2
Phenol-d ₆	68%
2-Fluorophenol	71%
2,4,6-Tribromophenol	89%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-22-SS04-SP

Sample Date: 4/30/92

Lab Sample ID: Q20422207

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	1 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#2

Nitrobenzene-d₅ 66%
 2-Fluorobiphenyl 64%
 Terphenyl 86%

Phenol-d₆ 54%
 2-Fluorophenol 58%
 2,4,6-Tribromophenol 74%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-23-SS03-SP

Sample Date: 5/01/92

Lab Sample ID: Q20422210

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl)ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl)ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d ₅	77%
2-Fluorobiphenyl	74%
Terphenyl	90%

Method Blank Reference:

Phenol-d ₆	66%
2-Fluorophenol	70%
2,4,6-Tribromophenol	86%

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-24-SS04-SP

Sample Date: 5/04/92

Lab Sample ID: Q20422213

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	3 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#2

Nitrobenzene-d₅ 66%
 2-Fluorobiphenyl 63%
 Terphenyl 77%

Phenol-d₆ 54%
 2-Fluorophenol 58%
 2,4,6-Tribromophenol 71%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/0

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-24-SS08-SP

Sample Date: 5/04/92

Lab Sample ID: Q20422214

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	1 J	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#2

Nitrobenzene-d₅ 69%
2-Fluorobiphenyl 70%
Terphenyl 86%

Phenol-d₆ 70%
2-Fluorophenol 71%
2,4,6-Tribromophenol 88%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-25-SS04-SP

Sample Date: 5/05/92

Lab Sample ID: Q20422216

SPLP Extraction Date: 5/11/92

Extraction Date: 5/13/92

Analysis Date: 5/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	1 J	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	1 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#2

Nitrobenzene-d₅ 75%
2-Fluorobiphenyl 72%
Terphenyl 90%

Phenol-d₆ 69%
2-Fluorophenol 76%
2,4,6-Tribromophenol 90%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/07

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-26-SS04-SP

Sample Date: 5/06/92

Lab Sample ID: Q20505702

SPLP Extraction Date: 5/18/92

Extraction Date: 5/20/92

Analysis Date: 5/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b) fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k) fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a) pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd) pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h) anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i) perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 68%
2-Fluorobiphenyl 66%
Terphenyl 77%

Method Blank Reference:

#3
Phenol-d₆ 60%
2-Fluorophenol 54%
2,4,6-Tribromophenol 80%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/070

IT ANALYTICAL SERVICES

PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-27-SS03-SP

Sample Date: 5/07/92

Lab Sample ID: Q20505705

SPLP Extraction Date: 5/18/92

Extraction Date: 5/20/92

Analysis Date: 5/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	1 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	260 E
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 67%
2-Fluorobiphenyl 66%
Terphenyl 109%

Method Blank Reference:

Phenol-d₆ 42%
2-Fluorophenol 46%
2,4,6-Tribromophenol 64%

Bridgestone/Firestone, Inc.

Date: 5/29/92

Client Project ID: 303486

Job Numbers: Q204159/160/181/199/221/222; Q205012/023/037/046/055/057/0

IT ANALYTICAL SERVICES
PITTSBURGH, PA

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-27-SS03-SP Dilution

Sample Date: 5/07/92

Lab Sample ID: Q20505705

SPLP Extraction Date: 5/18/92

Extraction Date: 5/20/92

Analysis Date: 5/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	30 U	3-Nitroaniline	150 U
bis(2-Chloroethyl) ether	30 U	Acenaphthene	30 U
2-Chlorophenol	30 U	2,4-Dinitrophenol	150 U
1,3-Dichlorobenzene	30 U	4-Nitrophenol	150 U
1,4-Dichlorobenzene	30 U	Dibenzofuran	30 U
Benzyl alcohol	30 U	2,4-Dinitrotoluene	30 U
1,2-Dichlorobenzene	30 U	Diethylphthalate	30 U
2-Methylphenol	30 U	4-Chlorophenyl-phenylether	30 U
bis(2-Chloroisopropyl) ether	30 U	Fluorene	30 U
4-Methylphenol	30 U	4-Nitroaniline	150 U
N-Nitroso-di-n-propylamine	30 U	4,6-Dinitro-2-methylphenol	150 U
Hexachloroethane	30 U	N-Nitrosodiphenylamine	30 U
Nitrobenzene	30 U	4-Bromophenyl-phenylether	30 U
Isophorone	30 U	Hexachlorobenzene	30 U
2-Nitrophenol	30 U	Pentachlorophenol	150 U
2,4-Dimethylphenol	30 U	Phenanthrene	30 U
Benzoic acid	150 U	Anthracene	30 U
bis(2-Chloroethoxy) methane	30 U	Di-n-butylphthalate	30 U
2,4-Dichlorophenol	30 U	Fluoranthene	30 U
1,2,4-Trichlorobenzene	30 U	Pyrene	30 U
Naphthalene	30 U	Butylbenzylphthalate	30 U
4-Chloroaniline	30 U	3,3'-Dichlorobenzidine	60 U
Hexachlorobutadiene	30 U	Benzo(a)anthracene	30 U
4-Chloro-3-methylphenol	30 U	Chrysene	30 U
2-Methylnaphthalene	30 U	bis(2-Ethylhexyl)phthalate	330 D
Hexachlorocyclopentadiene	30 U	Di-n-octylphthalate	30 U
2,4,6-Trichlorophenol	30 U	Benzo(b)fluoranthene	30 U
2,4,5-Trichlorophenol	150 U	Benzo(k)fluoranthene	30 U
2-Chloronaphthalene	30 U	Benzo(a)pyrene	30 U
2-Nitroaniline	150 U	Indeno(1,2,3-cd)pyrene	30 U
Dimethylphthalate	30 U	Dibenzo(a,h)anthracene	30 U
Acenaphthylene	30 U	Benzo(g,h,i)perylene	30 U
2,6-Dinitrotoluene	30 U	Total methylphenol	30 U
		Pyridine	150 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 74%
2-Fluorobiphenyl 90%
Terphenyl 121%

Method Blank Reference:

#3
Phenol-d₆ 54%
2-Fluorophenol 58%
2,4,6-Tribromophenol 69%

SPLP Semivolatile Organic Analysis

Client Sample ID: ITW-27-SS03-SP DUP

Sample Date: 5/07/92

Lab Sample ID: Q20505706

SPLP Extraction Date: 5/18/92

Extraction Date: 5/20/92

Analysis Date: 5/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	10 U
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	1 J
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#3

Nitrobenzene-d₅ 55%
 2-Fluorobiphenyl 58%
 Terphenyl 72%

Phenol-d₆ 45%
 2-Fluorophenol 46%
 2,4,6-Tribromophenol 75%

TCLP ANALYSIS

AR307326

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-15-SS07-TP
Sample Date: 4/21/92
Lab Sample ID: Q20415802
TCLP Extraction Date: 4/28/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration
	µg/L
Aluminum	803
Antimony	60.0 U
Arsenic	100 U
Barium	641
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	3870
Chromium	141
Cobalt	20.0 U
Copper	30.1
Iron	1140
Lead	78.7
Magnesium	1910
Manganese	299
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	424

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-16-SS04-TP
Sample Date: 4/23/92
Lab Sample ID: Q20415804
TCLP Extraction Date: 4/28/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	5090
Antimony	69.8
Arsenic	100 U
Barium	1030
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	9290
Chromium	95.3
Cobalt	20.0 U
Copper	25.0 U
Iron	6900
Lead	2470
Magnesium	1480
Manganese	290
Mercury	0.20 U
Nickel	40.0 U
Potassium	2890
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	452

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-17-SS05-TP
Sample Date: 4/24/92
Lab Sample ID: Q20415806
TCLP Extraction Date: 4/28/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	4570	--
Antimony	60.0 U	--
Arsenic	100 U	101.2
Barium	777	91.6
Beryllium	5.0 U	--
Cadmium	5.0 U	98.5
Calcium	8530	--
Chromium	135	92.3
Cobalt	20.0 U	--
Copper	25.0 U	--
Iron	19100	--
Lead	1570	98.1
Magnesium	2530	--
Manganese	768	--
Mercury	0.20 U	102.7
Nickel	66.1	--
Potassium	2070	--
Selenium	100 U	99.2
Silver	10.0 U	75.1
Thallium	10.0 U	71.8/69.2
Vanadium	20.0 U	--
Zinc	585	--

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-21-SS05-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422003
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	6430
Antimony	60.0 U
Arsenic	100 U
Barium	1150
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	8620
Chromium	71.7
Cobalt	20.0 U
Copper	25.0 U
Iron	7580
Lead	2000
Magnesium	1860
Manganese	204
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	363

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-21-SS08-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422004
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	2800
Antimony	60.0 U
Arsenic	100 U
Barium	1130
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	5160
Chromium	251
Cobalt	21.6
Copper	25.0 U
Iron	7560
Lead	80.7
Magnesium	5740
Manganese	275
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	1560

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-22-SS03-TP
Sample Date: 4/30/92
Lab Sample ID: Q20422007
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	3180	--
Antimony	129	--
Arsenic	100 U	101.0
Barium	958	91.6
Beryllium	5.0 U	--
Cadmium	5.0 U	98.6
Calcium	10500	--
Chromium	45.0	91.8
Cobalt	20.0 U	--
Copper	44.6	--
Iron	12500	--
Lead	2180	97.3
Magnesium	1340	--
Manganese	610	--
Mercury	0.20 U	93.0
Nickel	40.0 U	--
Potassium	2000 U	--
Selenium	100 U	99.5
Silver	10.0 U	89.0
Thallium	10.0 U	--
Vanadium	20.0 U	--
Zinc	439	--

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-23-SS03-TP
Sample Date: 5/01/92
Lab Sample ID: Q20422010
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	2840
Antimony	60.0 U
Arsenic	100 U
Barium	1230
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	9210
Chromium	58.3
Cobalt	25.7
Copper	25.0 U
Iron	3670
Lead	570
Magnesium	3380
Manganese	1030
Mercury	0.20 U
Nickel	173
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	430

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-24-SS03-TP
Sample Date: 5/04/92
Lab Sample ID: Q20422013
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	1300
Antimony	60.0 U
Arsenic	100 U
Barium	1080
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	10100
Chromium	34.2
Cobalt	20.0 U
Copper	25.0 U
Iron	94.3
Lead	1740
Magnesium	2080
Manganese	547
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	293

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-24-SS08-TP
Sample Date: 5/04/92
Lab Sample ID: Q20422014
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	929
Antimony	60.0 U
Arsenic	100 U
Barium	1050
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	9650
Chromium	87.5
Cobalt	42.7
Copper	25.0 U
Iron	1290
Lead	56.5
Magnesium	2500
Manganese	513
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	1000

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: . 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-25-SS02-TP
Sample Date: 5/05/92
Lab Sample ID: Q20422016
TCLP Extraction Date: 5/07/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	326
Antimony	352
Arsenic	100 U
Barium	1270
Beryllium	5.0 U
Cadmium	10.9
Calcium	186000
Chromium	15.4
Cobalt	20.0 U
Copper	25.0 U
Iron	298
Lead	20700
Magnesium	4590
Manganese	519
Mercury	0.20 U
Nickel	40.0 U
Potassium	2420
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	290

Bridgestone/Firestone, Inc.
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IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-26-SS02-TP
Sample Date: 5/06/92
Lab Sample ID: Q20505603
TCLP Extraction Date: 5/14/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	3600	--
Antimony	75.0	--
Arsenic	100 U	100.0
Barium	908	91.1
Beryllium	5.0 U	--
Cadmium	5.0 U	97.7
Calcium	9290	--
Chromium	94.9	91.6
Cobalt	20.0 U	--
Copper	25.0 U	--
Iron	8660	--
Lead	3490	100.2
Magnesium	2830	--
Manganese	275	--
Mercury	0.20 U	83.2
Nickel	40.0 U	--
Potassium	2000 U	--
Selenium	100 U	98.2
Silver	10.0 U	72.5
Thallium	10.0 U	--
Vanadium	20.0 U	--
Zinc	418	--

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-27-SS01-TP
Sample Date: 5/07/92
Lab Sample ID: Q20505607
TCLP Extraction Date: 5/14/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L	Matrix Spike Percent Recovery
Aluminum	1400	90.3/90.9
Antimony	60.0 U	87.6/87.6
Arsenic	100 U	--
Barium	662	--
Beryllium	5.0 U	91.8/94.0
Cadmium	5.0 U	--
Calcium	2120	--
Chromium	31.6	--
Cobalt	20.0 U	96.4/97.8
Copper	25.0 U	98.9/99.5
Iron	34.6	92.6/94.4
Lead	143	--
Magnesium	500 U	--
Manganese	190	90.0/91.0
Mercury	0.20 U	--
Nickel	40.0 U	95.2/96.2
Potassium	2000 U	--
Selenium	100 U	--
Silver	10.0 U	--
Thallium	10.0 U	--
Vanadium	20.0 U	84.5/85.2
Zinc	268	96.6/97.1

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
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Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Metals Analysis

Client Sample ID: ITW-27-SS02-TP DUP
Sample Date: 5/07/92
Lab Sample ID: Q20505608
TCLP Extraction Date: 5/14/92
Analysis Date: 5/20,22/92
Mercury: 5/19/92

Parameter	Concentration µg/L
Aluminum	2540
Antimony	60.0 U
Arsenic	100 U
Barium	874
Beryllium	5.0 U
Cadmium	5.0 U
Calcium	1650
Chromium	21.7
Cobalt	20.0 U
Copper	25.0 U
Iron	31.8
Lead	50.0 U
Magnesium	500 U
Manganese	156
Mercury	0.20 U
Nickel	40.0 U
Potassium	2000 U
Selenium	100 U
Silver	10.0 U
Thallium	10.0 U
Vanadium	20.0 U
Zinc	293

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IT ANALYTICAL SERVICES
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Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
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TCLP Volatile Organic Analysis

Client Sample ID: ITW-15-SS03-TP
Sample Date: 4/21/92
Lab Sample ID: Q20415801
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	14	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 J	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d₈ 124% *
Bromofluorobenzene 118% *
1,2-Dichloroethane-d₄ 135% *

*Outside QC limits.

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-15-SS03-TP Duplicate Analysis
Sample Date: 4/21/92
Lab Sample ID: Q20415801
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	17 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d ₈	130% *
Bromofluorobenzene	128% *
1,2-Dichloroethane-d ₄	146% *

*Outside QC limits.

Bridgestone/Firestone, Inc.
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IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-16-SS02-TP
Sample Date: 4/23/92
Lab Sample ID: Q20415803
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	7 J	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	9 BJ	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d ₈	103%
Bromofluorobenzene	118% *
1,2-Dichloroethane-d ₄	122% *

*Outside QC limits.

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Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-16-SS02-TP Duplicate Analysis
Sample Date: 4/23/92
Lab Sample ID: Q20415803
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	6 J ⁷⁵	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	8 BJ ⁸⁰	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	3 J	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference:	#1
Toluene-d ₈	106%
Bromofluorobenzene	117% *
1,2-Dichloroethane-d ₄	130% *

*Outside QC limits.

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-17-SS04-TP
Sample Date: 4/24/92
Lab Sample ID: Q20415805
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 B	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	2 J

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d ₈	107%
Bromofluorobenzene	122% *
1,2-Dichloroethane-d ₄	124% *

*Outside QC limits.

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-17-SS04-TP Duplicate Analysis
Sample Date: 4/24/92
Lab Sample ID: Q20415805
TCLP Extraction Date: 4/28/92
Analysis Date: 4/30/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 B	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	5 U	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	1 J

Surrogate Spike
Percent Recovery

Method Blank Reference: #1

Toluene-d ₈	109%
Bromofluorobenzene	122% *
1,2-Dichloroethane-d ₄	125% *

*Outside QC limits.

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-21-SS02-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422001
TCLP Extraction Date: 5/07/92
Analysis Date: 5/13/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	12	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #3

Toluene-d ₈	103%
Bromofluorobenzene	88%
1,2-Dichloroethane-d ₄	104%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-21-SS07-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422002
TCLP Extraction Date: 5/07/92
Analysis Date: 5/13/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	5 J	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	22	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	2 J
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	22

Surrogate Spike
Percent Recovery

Method Blank Reference: #4

Toluene-d₈ 109%
Bromofluorobenzene 103%
1,2-Dichloroethane-d₄ 111%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-22-SS02-TP
Sample Date: 4/30/92
Lab Sample ID: Q20422005
TCLP Extraction Date: 5/07/92
Analysis Date: 5/13/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #4

Toluene-d ₈	104%
Bromofluorobenzene	102%
1,2-Dichloroethane-d ₄	108%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Matrix Spike Percent Recovery

Client Sample ID: ITW-22-SS02-TP
Sample Date: 4/30/92
Lab Sample ID: Q20422006
TCLP Extraction Date: 5/07/92
Analysis Date: 5/14/92

Compound	Percent Recovery	Compound	Percent Recovery
Chloromethane	45%	1,2-Dichloropropane	50%
Bromomethane	76%	cis-1,3-Dichloropropene	60%
Vinyl chloride	51% -	Trichloroethene	44% -
Chloroethane	87%	Dibromochloromethane	64%
Methylene chloride	63%	1,1,2-Trichloroethane	65%
Acetone	72%	Benzene	80% -
Carbon disulfide	93%	trans-1,3-Dichloropropene	73%
1,1-Dichloroethene	91% -	Bromoform	72%
1,1-Dichloroethane	86%	4-Methyl-2-pentanone	80%
1,2-Dichloroethene (total)	85%	2-Hexanone	160%
Chloroform	95% -	Tetrachloroethene	84% -
1,2-Dichloroethane	97% -	1,1,2,2-Tetrachloroethane	94%
2-Butanone	99% -	Toluene	81% -
1,1,1-Trichloroethane	92%	Chlorobenzene	94% -
Carbon tetrachloride	91% -	Ethylbenzene	100%
Vinyl acetate	100%	Styrene	110%
Bromodichloromethane	49%	Xylenes (total)	94%

Surrogate Spike
Percent Recovery

Method Blank Reference: #5

Toluene-d ₈	89%
Bromofluorobenzene	111%
1,2-Dichloroethane-d ₄	114%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-23-SS04-TP
Sample Date: 5/01/92
Lab Sample ID: Q20422009
TCLP Extraction Date: 5/07/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	18	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	2 J	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	1 J

Surrogate Spike
Percent Recovery

Method Blank Reference: #5

Toluene-d₈ 101%
Bromofluorobenzene 90%
1,2-Dichloroethane-d₄ 107%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-24-SS02-TP
Sample Date: 5/04/92
Lab Sample ID: Q2042011
TCLP Extraction Date: 5/07/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	9 J	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	1 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #5

Toluene-d ₈	101%
Bromofluorobenzene	91%
1,2-Dichloroethane-d ₄	113%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-24-SS08-TP
Sample Date: 5/04/92
Lab Sample ID: Q20422012
TCLP Extraction Date: 5/07/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	2 J
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5

Surrogate Spike
Percent Recovery

Method Blank Reference: #5

Toluene-d ₈	88%
Bromofluorobenzene	112%
1,2-Dichloroethane-d ₄	96%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-25-SS02-TP
Sample Date: 5/05/92
Lab Sample ID: Q20422015
TCLP Extraction Date: 5/07/92
Analysis Date: 5/14/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	4 J	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	5 U	1,1,2-Trichloroethane	5 U
Acetone	28	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	3 J

Surrogate Spike
Percent Recovery

Method Blank Reference: #5

Toluene-d ₈	100%
Bromofluorobenzene	89%
1,2-Dichloroethane-d ₄	111%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-26-SS02-TP
Sample Date: 5/06/92
Lab Sample ID: Q20505601
TCLP Extraction Date: 5/14/92
Analysis Date: 5/26/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	3 J	1,1,2-Trichloroethane	5 U
Acetone	10 U	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	5 U	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	5 U	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #7

Toluene-d ₈	99%
Bromofluorobenzene	96%
1,2-Dichloroethane-d ₄	94%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Matrix Spike Percent Recovery

Client Sample ID: ITW-26-SS02-TP
Sample Date: 5/06/92
Lab Sample ID: Q20505602
TCLP Extraction Date: 5/14/92
Analysis Date: 5/26/92

Compound	Percent Recovery	Compound	Percent Recovery
Chloromethane	120%	1,2-Dichloropropane	110%
Bromomethane	110%	cis-1,3-Dichloropropene	120%
-Vinyl chloride	130%-	-Trichloroethene	100%-
Chloroethane	100%	Dibromochloromethane	120%
Methylene chloride	85%	1,1,2-Trichloroethane	120%
Acetone	130%	-Benzene	100%-
Carbon disulfide	110%	trans-1,3-Dichloropropene	120%
-1,1-Dichloroethene	89%-	Bromoform	120%
1,1-Dichloroethane	120%	4-Methyl-2-pentanone	100%
1,2-Dichloroethene (total)	120%	2-Hexanone	110%
-Chloroform	108%-	-Tetrachloroethene	110%-
-1,2-Dichloroethane	120%-	1,1,2,2-Tetrachloroethane	110%
-2-Butanone	100%-	Toluene	100%
1,1,1-Trichloroethane	110%	-Chlorobenzene	100%
-Carbon tetrachloride	110%-	Ethylbenzene	120%
Vinyl acetate	120%	Styrene	120%
Bromodichloromethane	120%	Xylenes (total)	120%

Surrogate Spike
Percent Recovery

Method Blank Reference: #7

Toluene-d ₈	96%
Bromofluorobenzene	94%
1,2-Dichloroethane-d ₄	97%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-27-SS01-TP
Sample Date: 5/07/92
Lab Sample ID: Q20505605
TCLP Extraction Date: 5/14/92
Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U	Trichloroethene	5 U
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 BJ	1,1,2-Trichloroethane	8
Acetone	37	Benzene	5 U
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	5 U	Bromoform	5 U
1,1-Dichloroethane	5 U	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	1 J	2-Hexanone	10 U
Chloroform	2 BJ	Tetrachloroethene	5 U
1,2-Dichloroethane	12	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U	Toluene	5 U
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U
Carbon tetrachloride	5 U	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #6

Toluene-d ₈	107%
Bromofluorobenzene	88%
1,2-Dichloroethane-d ₄	107%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Number: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Volatile Organic Analysis

Client Sample ID: ITW-27-SS01-TP DUP
Sample Date: 5/07/92
Lab Sample ID: Q20505606
TCLP Extraction Date: 5/14/92
Analysis Date: 5/19/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Chloromethane	10 U	1,2-Dichloropropane	5 U
Bromomethane	10 U	cis-1,3-Dichloropropene	5 U
Vinyl chloride	10 U-	Trichloroethene	5 U-
Chloroethane	10 U	Dibromochloromethane	5 U
Methylene chloride	1 BJ	1,1,2-Trichloroethane	8
Acetone	35	Benzene	5 U-
Carbon disulfide	5 U	trans-1,3-Dichloropropene	5 U
1,1-Dichloroethene	10 -	Bromoform	5 U
1,1-Dichloroethane	2 J	4-Methyl-2-pentanone	10 U
1,2-Dichloroethene (total)	2 BJ	2-Hexanone	10 U
Chloroform	5 U-	Tetrachloroethene	5 U-
1,2-Dichloroethane	16 -	1,1,2,2-Tetrachloroethane	5 U
2-Butanone	10 U-	Toluene	5 U-
1,1,1-Trichloroethane	5 U	Chlorobenzene	5 U-
- Carbon tetrachloride	5 U -	Ethylbenzene	5 U
Vinyl acetate	10 U	Styrene	5 U
Bromodichloromethane	5 U	Xylenes (total)	5 U

Surrogate Spike
Percent Recovery

Method Blank Reference: #6

Toluene-d₈ 101%
Bromofluorobenzene 87%
1,2-Dichloroethane-d₄ 100%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-15-SS07-TP
Sample Date: 04/21/92
Lab Sample ID: Q20415802
TCLP Extraction Date: 04/28/92
Extraction Date: 04/30/92
Analysis Date: 05/05/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	11 J
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 BJ
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	2 J	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	5 J	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	5 J
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 76%
2-Fluorobiphenyl 74%
Terphenyl 82%

Method Blank Reference:

#1
Phenol-d₆ 60%
2-Fluorophenol 56%
2,4,6-Tribromophenol 80%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-16-SS04-TP
Sample Date: 4/23/92
Lab Sample ID: Q20415804
TCLP Extraction Date: 04/28/92
Extraction Date: 04/30/92
Analysis Date: 05/05/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl)ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl)ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	2 BJ
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	3 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 59%
2-Fluorobiphenyl 60%
Terphenyl 92%

Method Blank Reference:

#1
Phenol-d₆ 38%
2-Fluorophenol 34%
2,4,6-Tribromophenol 58%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-17-SS05-TP
Sample Date: 4/24/92
Lab Sample ID: Q20415806
TCLP Extraction Date: 04/28/92
Extraction Date: 04/30/92
Analysis Date: 05/05/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	3 BJ
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	1 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 63%
2-Fluorobiphenyl 66%
Terphenyl 83%

Method Blank Reference:

#1
Phenol-d₆ 33%
2-Fluorophenol 32%
2,4,6-Tribromophenol 66%

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-21-SS05-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422003
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	32 J	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	3 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#3

Nitrobenzene-d₅ 87%
2-Fluorobiphenyl 85%
Terphenyl 93%

Phenol-d₆ 84%
2-Fluorophenol 82%
2,4,6-Tribromophenol 91%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-21-SS08-TP
Sample Date: 4/29/92
Lab Sample ID: Q20422004
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 83%
2-Fluorobiphenyl 82%
Terphenyl 86%

Method Blank Reference:

#3
Phenol-d₆ 82%
2-Fluorophenol 80%
2,4,6-Tribromophenol 90%

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-22-SS03-TP
Sample Date: 4/30/92
Lab Sample ID: Q20422007
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl) phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#3

Nitrobenzene-d₅ 83%
2-Fluorobiphenyl 82%
Terphenyl 84%

Phenol-d₆ 82%
2-Fluorophenol 80%
2,4,6-Tribromophenol 91%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486 Job Numbers: Q204157/158/180/198/219/220
Q205009/010/021/038/045/054/056/065

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-23-SS03-TP
Sample Date: 05/01/92
Lab Sample ID: Q20422010
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	14 J	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	3 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 75%
2-Fluorobiphenyl 72%
Terphenyl 75%

Method Blank Reference:

#3
Phenol-d₆ 74%
2-Fluorophenol 71%
2,4,6-Tribromophenol 75%

Client Project ID: 303486 Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-24-SS03-TP
Sample Date: 05/04/92
Lab Sample ID: Q20422013
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	20 J	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	7 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Method Blank Reference:

#3

Nitrobenzene-d₅ 76%
2-Fluorobiphenyl 74%
Terphenyl 87%

Phenol-d₆ 72%
2-Fluorophenol 71%
2,4,6-Tribromophenol 80%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-24-SS08-TP
Sample Date: 05/04/92
Lab Sample ID: Q20422014
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	13 J	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	5 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	3 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 77%
2-Fluorobiphenyl 75%
Terphenyl 84%

Method Blank Reference:

#3
Phenol-d₆ 78%
2-Fluorophenol 72%
2,4,6-Tribromophenol 80%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatiles Organic Analysis

Client Sample ID: ITW-25-SS02-TP
Sample Date: 05/05/92
Lab Sample ID: Q20422016
TCLP Extraction Date: 05/07/92
Extraction Date: 05/11/92
Analysis Date: 05/20/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	50 U	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	2 BJ
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 55%
2-Fluorobiphenyl 57%
Terphenyl 52%

Method Blank Reference:

#3
Phenol-d₆ 47%
2-Fluorophenol 43%
2,4,6-Tribromophenol 45%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-26-SS02-TP
Sample Date: 05/06/92
Lab Sample ID: Q20505603
TCLP Extraction Date: 05/14/92
Extraction Date: 05/18/92
Analysis Date: 05/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	12 J
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	28 J	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	3 J	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	2 J

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 91%
2-Fluorobiphenyl 88%
Terphenyl 78%

Method Blank Reference:

Phenol-d₆ 74%
2-Fluorophenol 72%
2,4,6-Tribromophenol 84%

AR307368

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220;
Q205009/010/021/038/045/054/056/069

TCLP Semivolatile Organic Analysis

Client Sample ID: ITW-27-SS01-TP
Sample Date: 05/07/92
Lab Sample ID: Q20505607
TCLP Extraction Date: 05/14/92
Extraction Date: 05/18/92
Analysis Date: 05/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	50 U
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	10 J	Anthracene	10 U
bis(2-Chloroethoxy) methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 88%
2-Fluorobiphenyl 86%
Terphenyl 76%

Method Blank Reference:

#4
Phenol-d₆ 73%
2-Fluorophenol 73%
2,4,6-Tribromophenol 70%

Bridgestone/Firestone, Inc.
Date: 5/29/92

IT ANALYTICAL SERVICES
PITTSBURGH, PA

Client Project ID: 303486

Job Numbers: Q204157/158/180/198/219/220,
Q205009/010/021/038/045/054/056/069

TCLP Semivolatle Organic Analysis

Client Sample ID: ITW-27-SS02-TP DUP
Sample Date: 05/07/92
Lab Sample ID: Q20505608
TCLP Extraction Date: 05/14/92
Extraction Date: 05/18/92
Analysis Date: 05/22/92

Compound	Concentration µg/L	Compound	Concentration µg/L
Phenol	10 U	3-Nitroaniline	50 U
bis(2-Chloroethyl) ether	10 U	Acenaphthene	10 U
2-Chlorophenol	10 U	2,4-Dinitrophenol	50 U
1,3-Dichlorobenzene	10 U	4-Nitrophenol	50 U
1,4-Dichlorobenzene	10 U	Dibenzofuran	10 U
Benzyl alcohol	10 U	2,4-Dinitrotoluene	10 U
1,2-Dichlorobenzene	10 U	Diethylphthalate	10 U
2-Methylphenol	10 U	4-Chlorophenyl-phenylether	10 U
bis(2-Chloroisopropyl) ether	10 U	Fluorene	10 U
4-Methylphenol	10 U	4-Nitroaniline	50 U
N-Nitroso-di-n-propylamine	10 U	4,6-Dinitro-2-methylphenol	50 U
Hexachloroethane	10 U	N-Nitrosodiphenylamine	10 U
Nitrobenzene	10 U	4-Bromophenyl-phenylether	10 U
Isophorone	10 U	Hexachlorobenzene	10 U
2-Nitrophenol	10 U	Pentachlorophenol	7 J
2,4-Dimethylphenol	10 U	Phenanthrene	10 U
Benzoic acid	62	Anthracene	10 U
bis(2-Chloroethoxy)methane	10 U	Di-n-butylphthalate	2 J
2,4-Dichlorophenol	10 U	Fluoranthene	10 U
1,2,4-Trichlorobenzene	10 U	Pyrene	10 U
Naphthalene	10 U	Butylbenzylphthalate	10 U
4-Chloroaniline	10 U	3,3'-Dichlorobenzidine	20 U
Hexachlorobutadiene	10 U	Benzo(a)anthracene	10 U
4-Chloro-3-methylphenol	10 U	Chrysene	10 U
2-Methylnaphthalene	10 U	bis(2-Ethylhexyl)phthalate	10 U
Hexachlorocyclopentadiene	10 U	Di-n-octylphthalate	10 U
2,4,6-Trichlorophenol	10 U	Benzo(b)fluoranthene	10 U
2,4,5-Trichlorophenol	50 U	Benzo(k)fluoranthene	10 U
2-Chloronaphthalene	10 U	Benzo(a)pyrene	10 U
2-Nitroaniline	50 U	Indeno(1,2,3-cd)pyrene	10 U
Dimethylphthalate	10 U	Dibenzo(a,h)anthracene	10 U
Acenaphthylene	10 U	Benzo(g,h,i)perylene	10 U
2,6-Dinitrotoluene	10 U	Total methylphenol	10 U
		Pyridine	50 U

Surrogate Spike Percent Recovery:

Nitrobenzene-d₅ 92%
2-Fluorobiphenyl 86%
Terphenyl 83%

Method Blank Reference:

#4
Phenol-d₆ 81%
2-Fluorophenol 86%
2,4,6-Tribromophenol 96%

**LOW TEMPERATURE THERMAL DESORPTION
TREATABILITY STUDY**

CERTIFICATES OF ANALYSIS

AR307371

Initial waste

1A

VOIATILE ORGANICS ANALYSIS DATA SHEET

25
EPA SAMPLE NO.

ITW27SS02CP

Lab Name: ITAS-KNOXVILLE

Contract: _____

Lab Code: IT9TU

SDG No.: ITW27S

Matrix: (soil/water)

Post-It™ brand fax transmittal memo 7671 # of pages > 7	
To <u>Nancy Trivett</u>	From <u>S. Shealy</u>
Co. <u>IT-Pitts</u>	Co. <u>TDC</u>
Dept.	Phone #
Fax #	Fax #

ID: K2000

Sample wt/vol:

: K2000R2

Level: (low/mid)

ed: 05/08/92

% Moisture: not dec. 42

Date Analyzed: 05/11/92

Column: (pack/cap) CAP

Dilution Factor: 1.00

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

CAS NO.

COMPOUND

Q

74-87-3	-----Chloromethane	86	U
74-83-9	-----Bromomethane	86	U
75-01-4	-----Vinyl Chloride	1300	
75-00-3	-----Chloroethane	86	U
75-09-2	-----Methylene Chloride	29	BJ -
67-64-1	-----Acetone	67	J
75-15-0	-----Carbon Disulfide	43	U
75-35-4	-----1,1-Dichloroethane	28	J
75-34-3	-----1,1-Dichloroethane	51	
940-59-0	-----1,2-Dichloroethane (total)	120	
67-66-3	-----Chloroform	43	U
107-06-2	-----1,2-Dichloroethane	110	
78-93-3	-----2-Butanone	86	U
71-55-6	-----1,1,1-Trichloroethane	43	U
56-23-5	-----Carbon Tetrachloride	43	U
108-05-1	-----Vinyl Acetate	86	U
75-27-4	-----Bromodichloromethane	43	U
78-87-5	-----1,2-Dichloropropane	43	U
10061-01-5	-----cis-1,3-Dichloropropane	43	U
79-01-6	-----Trichloroethane	43	U
124-48-1	-----Dibromochloromethane	43	U
79-00-5	-----1,1,2-Trichloroethane	16	J
71-43-2	-----Benzene	43	U
10061-02-6	-----Trans-1,3-Dichloropropane	43	U
75-25-2	-----Bromoform	43	U
108-10-1	-----4-Methyl-2-Pentanone	86	U
591-78-5	-----2-Hexanone	86	U
127-18-4	-----Tetrachloroethane	43	U
79-34-5	-----1,1,2,2-Tetrachloroethane	43	U
108-88-3	-----Toluene	43	U
108-90-7	-----Chlorobenzene	43	U
100-41-4	-----Ethylbenzene	43	U
100-42-5	-----Styrene	43	U
1330-20-7	-----Xylenes (total)	43	U

Blank sheet

AR307372

MIDDLEBROOK

5-25-92 9:04PM

6155944315

6155949573;#10

Initial waste, Duplicate 55

1A

EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

ITW275802CPD

Lab Name: ITAS-KNOXVILLE Contract: _____
 Lab Code: ITSTU Case No.: 51357 SAS No.: _____ SDG No.: ITW275
 Matrix: (soil/water) SOIL Lab Sample ID: K2001
 Sample wt/vol: 1.0 (g/mL) G Lab File ID: K2001
 Level: (low/med) LOW Date Received: 05/08/92
 % Moisture: not dec. 46 Date Analyzed: 05/11/92
 Column: (pack/cap) CAP Dilution Factor: 1.00

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

CAS NO.	COMPCUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	93	U
74-83-9	-----Bromomethane	93	U
75-01-4	-----Vinyl Chloride	770	
75-00-3	-----Chloroethane	93	U
75-09-2	-----Methylene Chloride	53	B
67-64-1	-----Acetone	100	
75-15-0	-----Carbon Disulfide	46	U
75-35-4	-----1,1-Dichloroethane	58	
75-34-3	-----1,1-Dichloroethane	78	
540-59-0	-----1,2-Dichloroethene (total)	82	
67-66-3	-----Chloroform	13	J
107-06-2	-----1,2-Dichloroethane	160	
78-93-3	-----2-Butanone	93	U
71-55-6	-----1,1,1-Trichloroethane	46	U
56-23-5	-----Carbon Tetrachloride	46	U
108-05-8	-----Vinyl Acetate	93	U
75-27-4	-----Bromodichloromethane	46	U
78-87-5	-----1,2-Dichloropropane	46	U
10061-01-5	-----cis-1,3-Dichloropropane	46	U
79-01-6	-----Trichloroethene	46	U
124-48-1	-----Dibromochloromethane	46	U
79-00-5	-----1,1,2-Trichloroethane	12	J
71-43-2	-----Benzene	46	U
10061-02-6	-----Trans-1,3-Dichloropropene	46	U
75-25-2	-----Bromoform	46	U
108-10-1	-----4-Methyl-2-Pentanone	93	U
591-78-6	-----2-Hexanone	93	U
127-18-4	-----Tetrachloroethene	46	U
79-34-5	-----1,1,2,2-Tetrachloroethane	46	U
108-88-3	-----Toluene	46	U
108-90-7	-----Chlorobenzene	46	U
100-41-4	-----Ethylbenzene	46	U
100-42-5	-----Styrene	46	U
1330-20-7	-----Xylenes (total)	46	U

AR307373

125 ~~100~~ °C - 3 min

00 10

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10360781R

Lab Name: ITAS-KNOXVILLE Contract: _____
 Lab Code: ITSTU Case No.: 51577 SAS No.: _____ SDG No.: 103607
 Matrix: (soil/water) SOIL Lab Sample ID: K3874
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: K3874
 Level: (low/med) LOW Date Received: 06/11/92
 % Moisture: not dec. 36 Date Analyzed: 06/15/92
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	16	U
74-83-9	-----Bromomethane	16	U
75-01-4	-----Vinyl Chloride	77	
75-00-3	-----Chloroethane	16	U
75-09-2	-----Methylene Chloride	19	B
67-64-1	-----Acetone	99	B
75-15-0	-----Carbon Disulfide	8	U
75-35-4	-----1,1-Dichloroethene	39	
75-34-3	-----1,1-Dichloroethane	99	
540-59-0	-----1,2-Dichloroethene (total)	70	
67-66-3	-----Chloroform	11	
107-06-2	-----1,2-Dichloroethane	160	
78-93-3	-----2-Butanone	16	U
71-55-6	-----1,1,1-Trichloroethane	8	U
56-23-5	-----Carbon Tetrachloride	8	U
108-05-4	-----Vinyl Acetate	16	U
75-27-4	-----Bromodichloromethane	8	U
78-87-5	-----1,2-Dichloropropane	8	U
10061-01-5	-----cis-1,3-Dichloropropene	8	U
79-01-6	-----Trichloroethene	3	J
124-48-1	-----Dibromochloromethane	8	U
79-00-5	-----1,1,2-Trichloroethane	40	
71-43-2	-----Benzene	8	U
10061-02-6	-----trans-1,3-Dichloropropene	8	U
75-25-2	-----Bromoform	8	U
108-10-1	-----4-Methyl-2-Pentanone	16	U
591-78-6	-----2-Hexanone	16	U
127-18-4	-----Tetrachloroethene	8	U
79-34-5	-----1,1,2,2-Tetrachloroethane	8	U
108-88-3	-----Toluene	8	U
108-90-7	-----Chlorobenzene	8	U
100-41-4	-----Ethylbenzene	8	U
100-42-5	-----Styrene	8	U
1330-20-7	-----Xylene (total)	6	BJ

250°C - 5 min

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

56
EPA SAMPLE NO.

10360791R

Lab Name: ITAS-KNOXVILLE Contract: _____
 Lab Code: ITSTU Case No.: 51577 SAS No.: _____ SDG No.: 103607
 Matrix: (soil/water) SOIL Lab Sample ID: K3877
 Sample wt/vol: 5.0 (g/mL) G Lab File ID: K3877
 Level: (low/med) LOW Date Received: 06/11/92
 % Moisture: not dec. 6 Date Analyzed: 06/15/92
 Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	Q
74-87-3	-----Chloromethane	11	U
74-83-9	-----Bromomethane	11	U
75-01-4	-----Vinyl Chloride	22	
75-00-3	-----Chloroethane	11	U
75-09-2	-----Methylene Chloride	12	B
67-64-1	-----Acetone	11	U
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	25	
75-34-3	-----1,1-Dichloroethane	30	
540-59-0	-----1,2-Dichloroethene (total)	52	
67-66-3	-----Chloroform	3	J
107-06-2	-----1,2-Dichloroethane	56	
78-93-3	-----2-Butanone	11	U
71-55-6	-----1,1,1-Trichloroethane	5	U
56-23-5	-----Carbon Tetrachloride	5	U
108-05-4	-----Vinyl Acetate	11	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	-----Trichloroethane	4	J
124-48-1	-----Dibromochloromethane	5	U
79-00-5	-----1,1,2-Trichloroethane	75	
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	11	U
591-78-6	-----2-Hexanone	11	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
1330-20-7	-----Xylene (total)	7	B

400 - 2 - 5 min

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 89

10360801R

Lab Name: ITAS-KNOXVILLE Contract: _____

Lab Code: ITSTU Case No.: 51577 SAS No.: _____ SDG No.: 103607

Matrix: (soil/water) SOIL Lab Sample ID: K3878

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K3878

Level: (low/med) LOW Date Received: 06/11/92

% Moisture: not dec. 0 Date Analyzed: 06/15/92

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO. COMPOUND Q

74-87-3	Chloromethane	9	J
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	81	
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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
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	6	
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	6	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	3	J
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	5	U

5302-5mm

108

EPA SAMPLE NO.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

10360811R

Lab Name: ITAS-KNOXVILLE Contract: _____

Lab Code: ITSTU Case No.: 51577 SAS No.: _____ SDG No.: 103607

Matrix: (soil/water) SOIL Lab Sample ID: K3879

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K3879

Level: (low/med) LOW Date Received: 06/11/92

% Moisture: not dec. 0 Date Analyzed: 06/15/92

Column: (pack/cap) CAP Dilution Factor: 1.0

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

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	45	B
67-64-1	Acetone	570	E
75-15-0	Carbon Disulfide	5	U
75-35-4	1,1-Dichloroethene	5	U
75-34-3	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
71-55-6	1,1,1-Trichloroethane	130	
56-23-5	Carbon Tetrachloride	16	
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	130	
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	11	
100-42-5	Styrene	5	U
1330-20-7	Xylene (total)	51	B

700°C - 5 min

128

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

10360821R

Lab Name: ITAS-KNOXVILLE Contract: _____

Lab Code: ITSTU Case No.: 51577 SAS No.: _____ SDG No.: 103607

Matrix: (soil/water) SOIL Lab Sample ID: K3880

Sample wt/vol: 5.0 (g/mL) G Lab File ID: K3880

Level: (low/med) LOW Date Received: 06/11/92

% Moisture: not dec. 1 Date Analyzed: 06/15/92

Column: (pack/cap) CAP Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/KG</u>	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	52	B
67-64-1	-----Acetone	300	E
75-15-0	-----Carbon Disulfide	5	U
75-35-4	-----1,1-Dichloroethene	5	U
75-34-3	-----1,1-Dichloroethane	5	U
540-59-0	-----1,2-Dichloroethene (total)	5	U
67-66-3	-----Chloroform	3	J
107-06-2	-----1,2-Dichloroethane	5	U
78-93-3	-----2-Butanone	10	U
71-55-6	-----1,1,1-Trichloroethane	200	
56-23-5	-----Carbon Tetrachloride	190	
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
1330-20-7	-----Xylene (total)	5	U

**IN SITU SOIL VAPOR EXTRACTION
TREATABILITY STUDY**

GEOTECHNICAL RESULTS

AR307379



INTERNATIONAL
TECHNOLOGY
CORPORATION

ANALYTICAL SERVICES

PRELIMINARY

CERTIFICATE OF ANALYSIS

Mark Hardner
IT Corporation
2790 Mosside Boulevard
Monroeville, PA 15146-2792

June 22, 1992

ETDC Project Number: 483500.023.01 J.T.S. Number: 30348616.07.02

This is the Certificate of Analysis for the following samples:

Client Project ID: Bridgestone/Firestone
Date Received by Lab: May 14, 1992
Number of Samples: Three (3)
Sample Type: Sludge/Soil

I. Introduction/Case Narrative

Three soil samples were received by IT/ETDC on May 14, 1992 for analysis of air permeability.

Please see Appendix A, the sample number cross reference list; Appendix B, the analysis results; and Appendix C, the Chain of Custody and Request for Analysis records.

Reviewed and Approved:


Beverly L. Leamon

Project Manager, Geotechnical Services

American Council of Independent Laboratories
International Association of Environmental Testing Laboratories
American Association for Laboratory Accreditation

Page 2 of 10
Mark Hardner
IT Corporation
June 22, 1992

Client Project ID: Firestone ETDC Project No.: 483500.023.01

PRELIMINARY

**IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211**

II. Analytical Results/Methodology

REFERENCES: Annual Book of ASTM Standards, Section 4, Construction, Volume 04.08, Soil and Rock; Dimension Stone; Geosynthetics.

Permeability of Rocks by Flowing Air

ASTM D 4525

III. Quality Control

Quality control checks such as duplicates and spikes (QC samples), are not normally applicable to geotechnical testing. This is due to the inability of obtaining samples with known characteristics, the heterogenous nature of the samples, and Quality Control procedures built-in to the analytical method.

QC measures to ensure accuracy and precision of test results include the following:

- 100% verification on all numerical results - all raw data entries, transcriptions and calculations entered by lab technicians are checked, recalculated and verified. Most data calculations are performed by computer programs.
- Data validation through test reasonableness - summaries of all test results for individual reports are reviewed to determine the overall reasonableness of data and to determine the presence of any data that may be considered outliers.
- Quality control procedures are built into most standardized geotechnical procedures. For example, many analyses routinely call for a re-analysis, specifying an acceptance criteria.
- Routine instrument calibration - all instruments, gauges and equipment used in testing is calibrated on a routine basis. All instrument calibration follows ASTM or manufacturer guidelines.
- Maintenance of all past calibration records - records and certification documents of all instruments, gauges and equipment are updated routinely and maintained in the Quality Control Coordinators Quality/Operations files.

AR307381

PRELIMINARY

- Use of trained personnel for conducting tests - all technicians are trained in the application of standard laboratory procedures for geotechnical analyses as well as the quality assurance measures implemented by IT.

IV. Data Qualification

The referenced ASTM method (ASTM D 4525) was written for determination of permeability through rock core samples or well-indurated soils. Laboratory precision cannot be verified because the samples tested were composed of non-indurated soil material.

Standard constant head permeability equipment was used with air as the permeant medium. The flowing air pressure values which are given in the test data are gauge pressures. The exit pressure of air was assumed to be at one atmosphere gauge.

AR307382

PRELIMINARY

APPENDIX A

AR307383

Page 4 of 10
Mark Hardner
IT Corporation
June 22, 1992

Client Project ID: Firestone

ETDC Project No.: 483500.023.01

PRELIMINARY
IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
EVANSVILLE, IN
(615) 690-3211

CROSS-REFERENCE LIST

ETDC SAMPLE NO.

CLIENT SAMPLE NO.

ETDC-2162.....ITW-28-ST1
ETDC-2163.....ITW-29-ST1
ETDC-2164.....ITW-30-ST1

AR307384

PRELIMINARY

APPENDIX B

AR307385

Page 5 of 10
Mark Hardner
IT Corporation
June 22, 1992

Client Project ID: Firestone ETDC Project No.: 483500.023.01

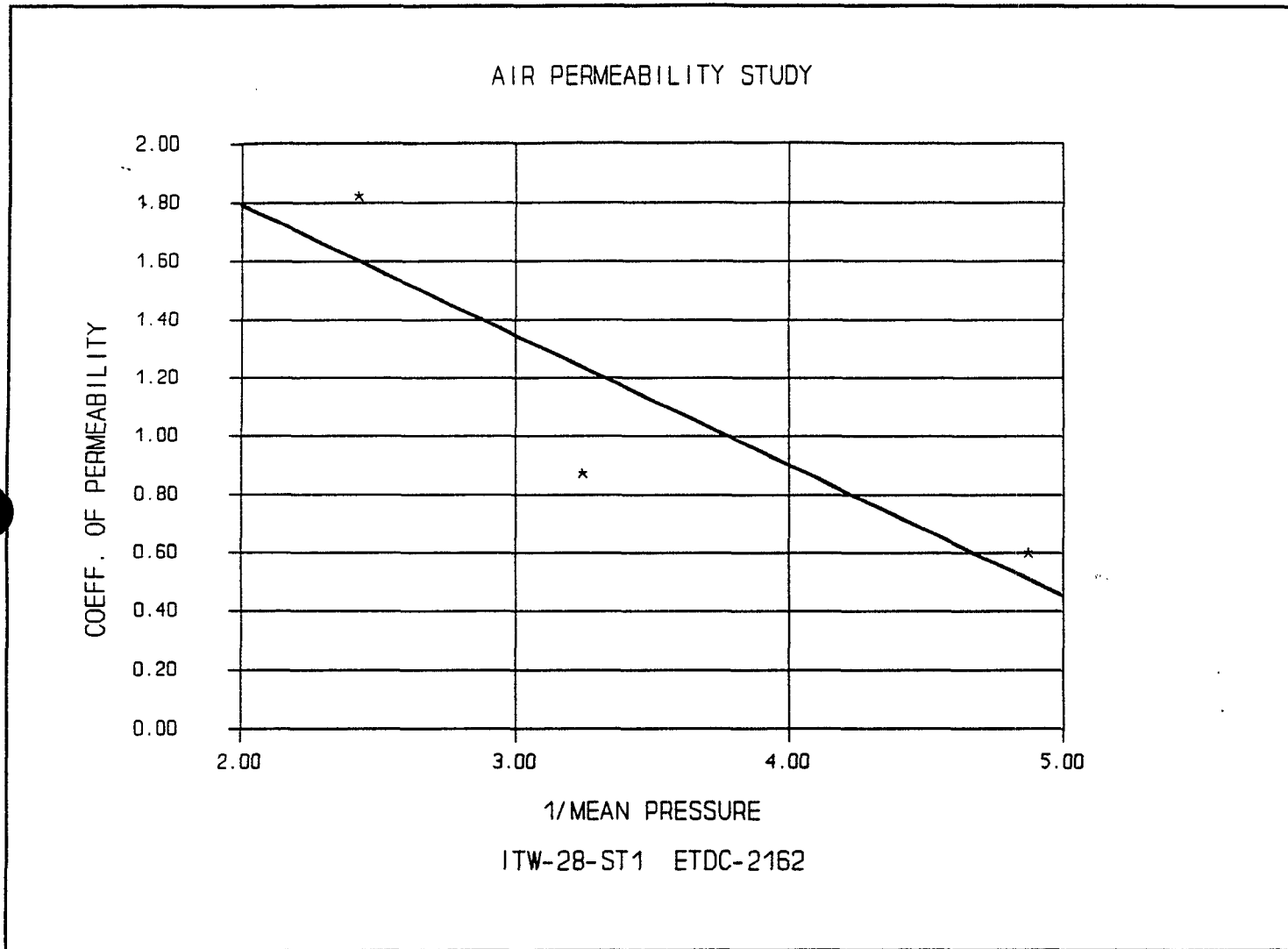
PRELIMINARY
IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

SAMPLE ANALYSIS RESULTS

PROJECT NAME: Bridgestone/Firestone SAMPLE LENGTH: 4.36 in.
PROJECT NUMBER: 483500.023.01 SAMPLE DIAMETER: 2.81 in.
CUSTOMER NUMBER: ITW-28-ST1
ETDC SAMPLE NUMBER: ETDC-2162
EQUATION OF LINE: $y = -4.5 E-10(x) + 2.7 E-15$

FLOWING PRESSURE (PSI)	RECIPROCAL OF MEAN PRESSURE (PA)	AVG. COEFF. OF PERMEABILITY (M ²)
90.0	2.43 E-6	1.81 E-15 M ²
60.0	3.25 E-6	0.86 E-15 M ²
30.0	4.88 E-6	0.59 E-15 M ²

AR307386



UNITS:

PERMEABILITY: E-15 M²
1/MEAN PRESSURE: E-6 PA

AR307387

Page 7 of 10
Mark Hardner
IT Corporation
June 22, 1992
Client Project ID: Firestone

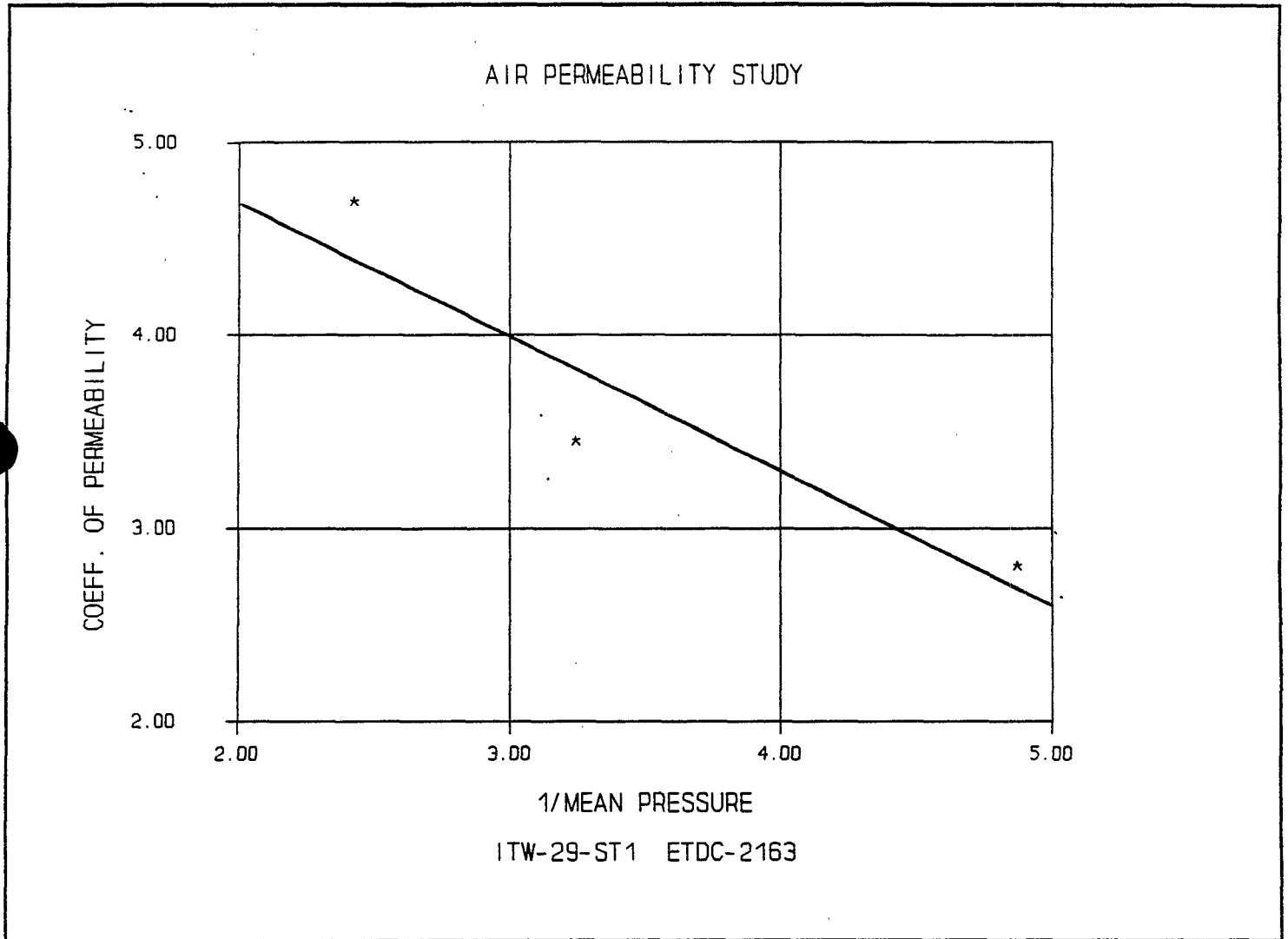
PRELIMINARY
IT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211
ETDC Project No.: 483500.023.01

SAMPLE ANALYSIS RESULTS

PROJECT NAME: Bridgestone/Firestone SAMPLE LENGTH: 2.41 in.
PROJECT NUMBER: 483500.023.01 SAMPLE DIAMETER: 2.78 in.
CUSTOMER NUMBER: ITW-29-ST1
ETDC NUMBER: ETDC-2163
EQUATION OF LINE: $y = -7.2 \text{ E-10}(x) + 6.2 \text{ E-15}$

FLOWING PRESSURE (PSI)	RECIPROCAL OF MEAN PRESSURE (PA)	AVG. COEFF. OF PERMEABILITY (M ²)
90.0	2.43 E-6	4.68 E-15 M ²
60.0	3.25 E-6	3.44 E-15 M ²
30.0	4.88 E-6	2.79 E-15 M ²

AR307388



UNITS:

PERMEABILITY: E-15 M²
1/MEAN PRESSURE: E-6 PA

AR307389

Page 9 of 10
Mark Hardner
IT Corporation
June 22, 1992

Client Project ID: Firestone

PT ANALYTICAL SERVICES
304 DIRECTORS DRIVE
KNOXVILLE, TN
(615) 690-3211

ETDC Project No.: 483500.023.01

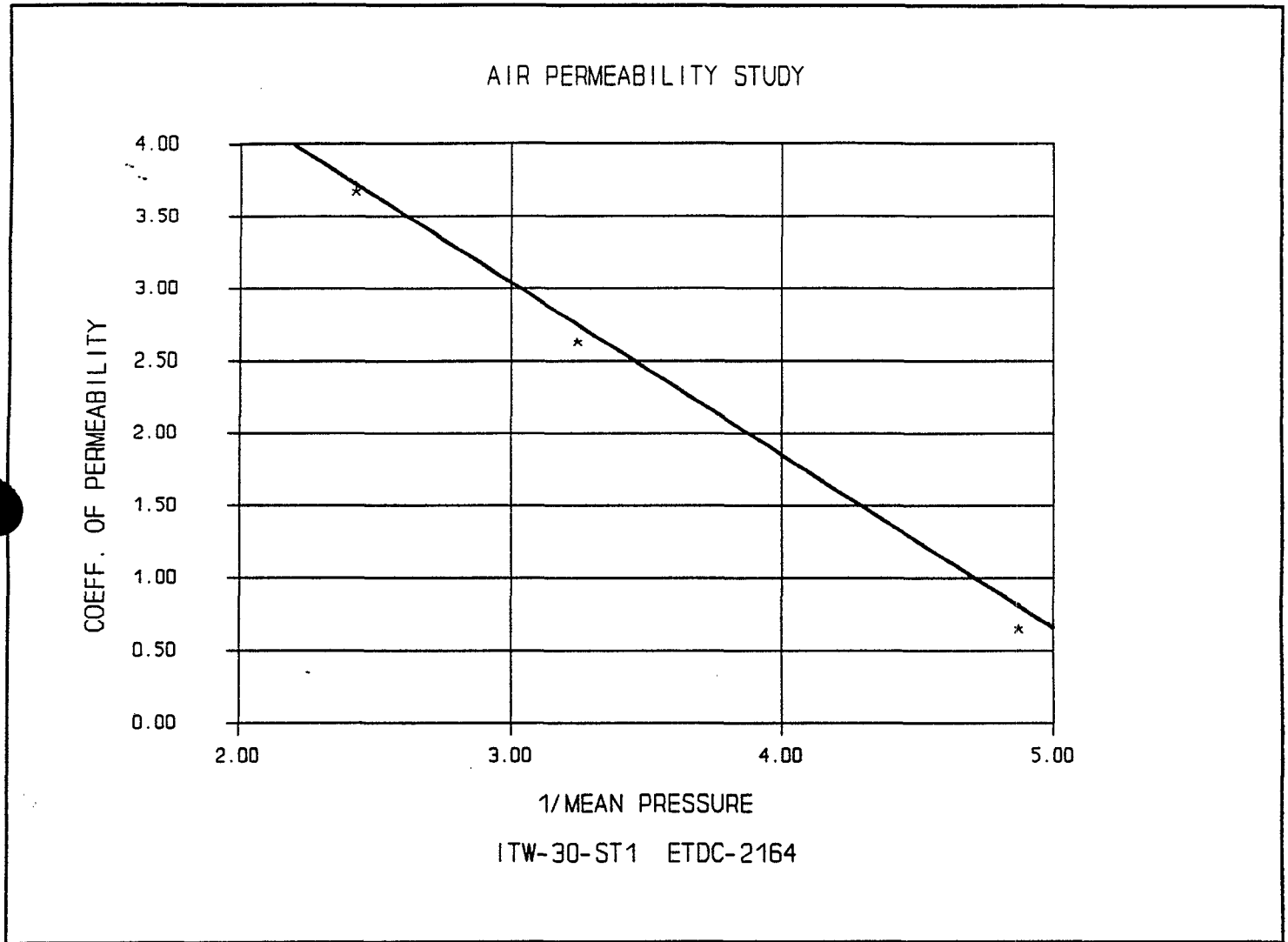
SAMPLE ANALYSIS RESULTS

PROJECT NAME: Bridgestone/Firestone SAMPLE LENGTH: 4.78 in.
PROJECT NUMBER: 483500.023.01 SAMPLE DIAMETER: 2.79 in.
CUSTOMER NUMBER: ITW-30-ST1
ETDC NUMBER: ETDC-2164
EQUATION OF LINE: $y = -1.2 \text{ E-10}(x) + 6.6 \text{ E-16}$

FLOWING PRESSURE (PSI)	RECIPROCAL OF MEAN PRESSURE (PA)	AVG. COEFF. OF PERMEABILITY (M ²)
90.0	2.43 E-6	3.65 E-16 M ²
60.0	3.25 E-6	2.61 E-16 M ²
30.0	4.88 E-6	0.63 E-16 M ²

AR307390

PRELIMINARY



UNITS:

PERMEABILITY: E-16 M²
1/MEAN PRESSURE: E-6 PA

CONFIDENTIAL

APPENDIX C

AR307392



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CORPORATION

483500.023.01

**ANALYSIS REQUEST AND
CHAIN OF CUSTODY RECORD***

Reference Document No. 346677
Page 1 of 1

Project Name/No. 1 Bridgeport/Firestone / 303488 Samples Shipment Date 7 5-13-92
 Sample Team Members 2 Sam Hannah, Anthony Cono Lab Destination 8 IT ETDC
 Profit Center No. 3 3511 Lab Contact 9 Beverly Lemon
 Project Manager 4 Mark Hardner Project Contact/Phone 12 Mark Hardner / 412-372-7701
 Purchase Order No. 6 Carrier/Waybill No. 13 Report to: 10 Mark Hardner
 Required Report Date 11 2790 Mosside Blvd
Monroeville PA 15146

ONE CONTAINER PER LINE

Sample Number	Sample 15 Description/Type	Date/Time Collected	Container Type	Sample Volume	Pre-19 preservative	Requested Testing Program	Condition on Receipt	Disposal 22 Record No.
ITW-28-ST1	Sludge/Sol	5-8-92/1200	Shelby Tube	?	None	Air permeability ASTM D4525-85		
ITW-29-ST1								
ITW-30-ST1								
AR307393								

Special Instructions: 23

Possible Hazard Identification: 24 Vinyl chloride

Non-hazard Flammable Skin Irritant Poison B Unknown

Turnaround Time Required: 26
Normal Rush

QC Level: 27
I: II: III:

Sample Disposal: 25

Return to Client Disposal by Lab Archive (mos.)

1. Relinquished by 28
(Signature/Affiliation)

Date: 5-13-92
Time: 11:50

2. Relinquished by
(Signature/Affiliation)

Date: 5-13-92
Time: 1350

3. Relinquished by
(Signature/Affiliation)

Date: 5-14-92
Time: 1:10

Project Specific (specify): See QAPP

Date: 5-13-92
Time: 1150

Date: 5-14-92
Time: 1:10

Date:
Time:

Comments: 29

*See back of form for special instructions.

UNIT WEIGHT

Client: IT CORPORATION Tested By: TM Date: 05-18-92
 Client Project: BRIDGE STONE FIRE STONE Checked By: *SK* Date: *6-9-92*
 Project No.: 92210

Core No.	ITW-22	ITW-22	ITW-18	ITW-23	ITW-25	ITW-24
Depth(ft.)	NA	NA	NA	NA	NA	NA
Sample No.	SS02-DA	SS03-DA	SS03-DA	SS01-DA	SS06-DA	SS05-DA
Core Number	1020	659	925	969	621	1004
Mt. Tare & WS(gm.)	91.79	85.03	86.47	86.00	88.42	116.76
Mt. Tare & DS(gm.)	76.86	69.66	72.26	67.39	73.82	99.64
Mt. Water(gm.)	14.93	15.37	14.21	18.61	14.60	17.12
Mt. Tare(gm.)	41.32	33.29	31.10	41.96	35.23	42.99
Mt. DS(gm.)	35.54	36.37	41.16	25.43	38.59	56.65
Moisture Content(%)	42.01	42.26	34.52	73.18	37.83	30.22

JNIT WEIGHT

Mt. Tube & WS.(gms.)	236.28	281.39	372.58	227.20	311.18	236.14
Mt. Of Tube(gms.)	2.29	2.34	2.51	2.36	2.44	2.81
Mt. Of WS.(gms.)	233.99	279.05	370.07	224.84	308.74	233.33
Sample Volume(cc.)	180.00	190.00	255.00	205.00	225.00	160.00
Jgit Wet Wt.(gms/cc)	1.30	1.47	1.45	1.10	1.37	1.46
Jgit Wet Wt.(pcf.)	81.12	91.65	90.56	68.44	85.62	91.00
Jgit Dry Wt.(pcf.)	57.12	64.42	67.32	39.52	62.12	69.88
Unit Dry Wt.(gms/cc)	0.92	1.03	1.08	0.63	1.00	1.12

394



PT 7/11/92

ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>LCM</i>		6-5-92
Project No.	92210	Checked By		Date	
Boring No.	ITW-18				
Depth(ft.)	4-27-92				
Sample No.	ITW-18-SSO3-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

AR307395



1700 10th St. N. #100
Minneapolis, MN 55412
Tel: 612-338-1100
Fax: 612-338-1101

ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>GCM</i>		6-5-92
Project No.	92210	Checked By		Date	
Boring No.	ITW-22				
Depth(ft.)	4-30-92				
Sample No.	ITW-22-SS03-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

AR307396

AT-1001121

ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>QCM</i>		6-5-92
Project No.	92210	Checked By		Date	
Boring No.	ITW-23				
Depth(ft.)	5-1-92				
Sample No.	ITW-23-SS01-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

AR307397



ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>JCM</i>		6-5-92
Project No.	92210	Checked By		Date	
Boring No.	ITW-24				
Depth(ft.)	5-4-92				
Sample No.	ITW-24-SS05-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>JCM</i>		<i>6-5-92</i>
Project No.	92210	Checked By		Date	
Boring No.	ITW-25				
Depth(ft.)	5-5-92				
Sample No.	ITW-25-SS06-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

ATTERBERG LIMITS TEST

Client	IT CORPORATION	Tested By	EJM	Date	06-04-92
Client Project	BRIDGESTONE FIRESTONE		<i>JCM</i>		6-5-92
Project No.	92210	Checked By		Date	
Boring No.	ITW-22				
Depth(ft.)	4-30-92				
Sample No.	ITW-22-SS02-DA				
Soil Description	NON PLASTIC (-40)				

LIQUID LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)
NO. OF BLOWS

PLASTIC LIMIT

Tare Number
Wt. Tare & WS(gm.)
Wt. Tare & DS(gm.)
Wt. Water(gm.)
Wt. Tare(gm.)
Wt. DS(gm.)
Moisture Content(%)

NON PLASTIC

AR307400