

DTIC FILE COPY

D

AD-A203 415

RESEARCH TRIANGLE INSTITUTE

432U-2676-16

INSTALLATION RESTORATION PROGRAM
PHASE II - CONFIRMATION/QUANTIFICATION
STAGE 2

VOLUME 4 OF 4

for
Seymour Johnson Air Force Base, NC

by
Research Triangle Institute
Center for Environmental Measurements
P. O. Box 12194
Research Triangle Park, NC 27709

November 1988

FINAL REPORT

Prepared For

Headquarters Tactical Air Command
HQ TAC/SGPB
Langley Air Force Base, VA 23665-5007

DTIC
ELECTE
DEC 27 1988
S D
GE

United States Air Force
Occupational & Environmental Health Laboratory (USAF OHL)
Brooks Air Force Base, Texas 78235-5501

POST OFFICE BOX 12194 RESEARCH TRIANGLE PARK, NORTH CAROLINA 27709-2194

This document has been approved
for public release and using the
distribution is unlimited.

88 12 0 6

APPENDICES

		<u>Page</u>
X	Reported Organic Laboratory Results, Valid Data	X-1
Y	Reported Organic Laboratory Results, Invalid Data	Y-1
Z	Reported Inorganic Laboratory Results (Valid and Invalid Data) . . .	Z-1

DTIC
COPY
INSPECTED
6

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/>
DTIC TAB	<input type="checkbox"/>
Unannounced	<input type="checkbox"/>
Justification	
<i>[Handwritten signature]</i>	
By _____	
Distribution/	
Availability Codes	
Dist	Avail and/or Special
<i>[Handwritten mark]</i>	

This document has been approved
for public release and sale in
distribution is unlimited.

APPENDIX X

REPORTED ORGANIC LABORATORY RESULTS

VALID DATA

IEA REPORT DATE: JANUARY 15, 1987

IEA REPORT NO.: 103-105

FILE COPY



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 15, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-105

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on November 17, 1986.

Please see the enclosed report for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

A handwritten signature in cursive script that reads "Joseph B. Adamovic".

Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 19 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: ^{VT-3}Essex Junction, Vermont
Research Triangle Park, North Carolina

January 15, 1987
 IEA Report No. 103-105

Petroleum Hydrocarbon	mg/Kg	25	SB-56 0-2'B	SB-56 3-5'B	SB-56 8-10'B	SB-56 13-15'B	SB-56 15-18'B	SB-57 0-2'B	SB-57 2-4'B
			310	BDL	BDL	BDL	BDL	560	BDL

X-4

Petroleum Hydrocarbon	mg/Kg	25	SB-57 4-6'B	SB-57 9-11'B	SB-57 11-13'B	SB-55 1-3'B	SB-55 3-5'B	SB-55 9-11'B	SB-55 11-13'B
			BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL: Below Detection Limit

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 14

Sample Identification SB-55,11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>µg/Kg</u>	<u>µg/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 3

Sample Identification SB-56, 8-10' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>µg/Kg</u>	<u>µg/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 4

Sample Identification SB-56, 13-15' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 6

Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	10,000	BDL
2	2-CHLOROPHENOL	10,000	BDL
3	2,4-DICHLOROPHENOL	10,000	BDL
4	2,4-DIMETHYLPHENOL	10,000	BDL
5	2,4-DINITROPHENOL	100,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	100,000	BDL
7	2-NITROPHENOL	10,000	BDL
8	4-NITROPHENOL	10,000	BDL
9	PENTACHLOROPHENOL	10,000	BDL
10	PHENOL	10,000	BDL
11	2,4,6-TRICHLOROPHENOL	10,000	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
<u>602</u>	Detection Limit	Concentration
	Xylenes	1.0 BDL

Purgeable Aromatics

IEA Sample No. 103105 14

Sample Identification SB-55, 11-13' B

Date Analyzed November 20, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT		
	Method 8020.		
<u>602</u>	Detection Limit	Concentration	
	Xylenes	1.0	BDL

Purgeable Aromatics

IEA Sample No. 103105 11
 Sample Identification SB-55, 1-3'B
 Date Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
<u>602</u>	Detection Limit	Concentration
	Xylenes	1.0 BDL

Purgeable Aromatics

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2'B

Date Analyzed November 19, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
	<u>602</u>	
	Detection Limit	Concentration
	Xylenes	1.0
		BDL

Purgeable Aromatics

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Analyzed November 19, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT		
	Method 8020.		
<u>602</u>	Detection Limit	Concentration	
	Xylenes	1.0	BDL

Purgeable Aromatics

IEA Sample No. 103105 3
 Sample Identification SB-56, 8-10' B
 Date Analyzed November 18, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
<u>602</u>	Detection Limit	Concentration
	Xylenes	1.0 BDL

Purgeable Aromatics

IEA Sample No. 103105 4
 Sample Identification 38-56, 13-15' B
 Date Analyzed November 18, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

Detection Limit

Concentration

Xylenes

1.0

BDL

Purgeable Aromatics

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18'B

Date Analyzed November 18, 1986

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

602

Detection Limit

Concentration

Xylenes

1.0

BDL

Purgeable Aromatics

IEA Sample No. 103105 7

Sample Identification SB-57, 2-4' B

Date Analyzed November 19, 1986

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzene	1.0	1.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT		
	Method 8020.		
<u>602</u>		Detection Limit	Concentration
	Xylenes	1.0	BDL

Purgeable Aromatics

IEA Sample No. 103105 8
 Sample Identification SB-57, 4-6' B
 Date Analyzed November 20, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
			<u>µg/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
<u>602</u>	Detection Limit	Concentration
	Xylenes	1.0 BDL

Purgeable Aromatics

IEA Sample No. 103105 9
 Sample Identification SB-57, 9-11' B
 Date Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
<u>602</u>	Detection Limit	Concentration
	Xylenes	1.0 BDL

Purgeable Aromatics

IEA Sample No. 103105 10
 Sample Identification SB-57, 11-13' B
 Date Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 2

Sample Identification SB-56, 3-5' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDOSULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 3

Sample Identification SB-56, 8-10' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 4

Sample Identification SB-56, 13-15' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 5

Sample Identification SB-56, 15-18' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 2 Sample Identification SB-56, 3-5' B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Daniels

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	890
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITroso-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BNIEA Sample No. 103105 3 Sample Identification SB-56, 8-10' BDate Extracted November 24, 1986 Date Analyzed December 23, 1986By Harris

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	4100
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYLPHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITroso-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BNIEA Sample No. 103105 4Sample Identification SB-56, 13-15' BDate Extracted November 24, 1986Date Analyzed December 23, 1986By Harris**GS/MS Base/Neutral Extractables**

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYLPHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 5 Sample Identification SB-56,15-18'B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Harris

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	µg/Kg	µg/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYLPHTHALATE	400	690
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 6 Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986 Date Analyzed December 23, 1986

By Harris

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	µg/Kg	µg/Kg
1	ACENAPHTHENE	10,000	BDL
2	ACENAPHTHYLENE	4000	BDL
3	ANTHRACENE	4000	BDL
4	BENZIDINE	4000	BDL
5	BENZO (a) ANTHRACENE	4000	BDL
6	BENZO (a) PYRENE	4000	BDL
7	BENZO (b) FLUORANTHENE	4000	BDL
8	BENZO (ghi) PERYLENE	10,000	BDL
9	BENZO (k) FLUORANTHENE	4000	BDL
10	BIS (2-CHLOROETHOXY) METHANE	4000	BDL
11	BIS (2-CHLOROETHYL) ETHER	4000	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	4000	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	4000	24,000
14	4-BROMOPHENYL PHENYL ETHER	4000	BDL
15	BENZYL BUTYL PHTHALATE	4000	BDL
16	2-CHLORONAPHTHALENE	4000	BDL
17	4-CHLOROPHENYL PHENYL ETHER	4000	BDL
18	CHRYSENE	4000	BDL
19	DIBENZO (a,h) ANTHRACENE	4000	BDL
20	1,2-DICHLOROBENZENE	4000	BDL
21	1,3-DICHLOROBENZENE	4000	BDL
22	1,4-DICHLOROBENZENE	4000	BDL
23	3,3'-DICHLOROBENZIDINE	4000	BDL
24	DIETHYL PHTHALATE	4000	BDL
25	DIMETHYL PHTHALATE	4000	BDL
26	DI-N-BUTYL PHTHALATE	4000	7400
27	2,4-DINITROTOLUENE	4000	BDL
28	2,6-DINITROTOLUENE	4000	BDL
29	DI-N-OCTYLPHTHALATE	4000	BDL
30	FLUORANTHENE	4000	BDL
31	FLUORENE	4000	BDL
32	HEXACHLOROBENZENE	4000	BDL
33	HEXACHLOROBUTADIENE	4000	BDL
34	HEXACHLOROCYCLOPENTADIENE	4000	BDL
35	HEXACHLOROETHANE	4000	BDL
36	INDENO (1,2,3-cd) PYRENE	10,000	BDL
37	ISOPHORONE	4000	BDL
38	NAPHTHALENE	4000	BDL
39	NITROBENZENE	4000	BDL
40	N-NITROSODIMETHYLAMINE	4000	BDL
41	N-NITroso-DI-N-PROPYLAMINE	4000	BDL
42	N-NITROSODIPHENYLAMINE	4000	BDL
43	PHENANTHRENE	4000	BDL
44	PYRENE	4000	BDL
45	1,2,4-TRICHLOROBENZENE	4000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 14

Sample Identification SB-55,11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 6

Sample Identification SB-57, 0-2' B

Date Extracted November 24, 1986

Date Analyzed December 23, 1986

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	4000	BDL
2	Alpha - BHC	4000	BDL
3	Beta - BHC	4000	BDL
4	Delta - BHC	4000	BDL
5	Gamma - BHC	4000	BDL
6	CHLORDANE	4000	BDL
7	4,4'-DDD	4000	BDL
8	4,4'-DDE	4000	BDL
9	4,4'-DDT	4000	BDL
10	DIELDRIN	4000	BDL
11	ENDOSULFAN I	4000	BDL
12	ENDOSULFAN II	4000	BDL
13	ENDODULFAN SULFATE	4000	BDL
14	ENDRIN	4000	BDL
15	ENDRIN ALDEHYDE	4000	BDL
16	HEPTACHLOR	4000	BDL
17	HEPTACHLOR EPOXIDE	4000	BDL
18	TOXAPHENE	4000	BDL
19	PCB 1016	4000	BDL
20	PCB 1221	4000	BDL
21	PCB 1232	4000	BDL
22	PCB 1242	4000	BDL
23	PCB 1248	4000	BDL
24	PCB 1254	4000	BDL
25	PCB 1260	4000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 7

Sample Identification SB-57, 2-4' B

Date Extracted November 24, 1986

Date Analyzed January 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	8000	BDL
2	Alpha - BHC	8000	BDL
3	Beta - BHC	8000	BDL
4	Delta - BHC	8000	BDL
5	Gamma - BHC	8000	BDL
6	CHLORDANE	8000	BDL
7	4,4'-DDD	8000	BDL
8	4,4'-DDE	8000	BDL
9	4,4'-DDT	8000	BDL
10	DIELDRIN	8000	BDL
11	ENDOSULFAN I	8000	BDL
12	ENDOSULFAN II	8000	BDL
13	ENDODULFAN SULFATE	8000	BDL
14	ENDRIN	8000	BDL
15	ENDRIN ALDEHYDE	8000	BDL
16	HEPTACHLOR	8000	BDL
17	HEPTACHLOR EPOXIDE	8000	BDL
18	TOXAPHENE	8000	BDL
19	PCB 1016	8000	BDL
20	PCB 1221	8000	BDL
21	PCB 1232	8000	BDL
22	PCB 1242	8000	BDL
23	PCB 1248	8000	BDL
24	PCB 1254	8000	BDL
25	PCB 1260	8000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6' B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 9

Sample Identification SB-57, 9-11' B

Date Extracted November 25, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 10

Sample Identification SB-57, 11-13' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDODULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 11Client Identification SB-55, 1-3' BDate Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 12Client Identification SB-55, 3-5' BDate Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 13Client Identification SB-55, 9-11' BDate Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 14Client Identification SB-55, 11-13' BDate Analyzed November 20, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 1Client Identification SB-56, 0-2' BDate Analyzed November 19, 1986By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 2Client Identification SB-56, 3-5' BDate Analyzed November 19, 1986By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

X-42

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 3Client Identification SB-56, 8-10' BDate Analyzed November 18, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 4Client Identification SB-56, 13-15' BDate Analyzed November 18, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloracetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile Organics

IEA Number 103-105 5
 Client Identification SB-56, 15-18' B
 Date Analyzed November 18, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 6Client Identification SB-57, 0-2' BDate Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 7Client Identification SB-57, 2-4' BDate Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 8Client Identification SB-57, 4-6' BDate Analyzed November 20, 1986 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 9Client Identification SB-57, 9-11' BDate Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

Method 8010

Halogenated Volatile OrganicsIEA Number 103-105 10Client Identification SB-57, 11-13' BDate Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzyl chloride	1.0	BDL
2	Bis (2-chloroethoxy)methane	1.0	BDL
3	Bis (2-chloroisopropyl)ether	1.0	BDL
4	Bromobenzene	1.0	BDL
5	Bromodichloromethane	1.0	BDL
6	Bromoform	1.0	BDL
7	Bromomethane	1.0	BDL
8	Carbon tetrachloride	1.0	BDL
9	Chloroacetaldehyde	1.0	BDL
10	Chloral	1.0	BDL
11	Chlorobenzene	1.0	BDL
12	Chloroethane	1.0	BDL
13	Chloroform	1.0	BDL
14	1-Chlorohexane	1.0	BDL
15	2-Chloroethyl vinyl ether	1.0	BDL
16	Chloromethane	1.0	BDL
17	Chloromethyl methyl ether	1.0	BDL
18	Chlorotoluene	1.0	BDL
19	Dibromochloromethane	1.0	BDL
20	Dibromomethane	1.0	BDL
21	1,2-Dichlorobenzene	1.0	BDL
22	1,3-Dichlorobenzene	1.0	BDL
23	1,4-Dichlorobenzene	1.0	BDL
24	Dichlorodifluoromethane	1.0	BDL
25	1,1-Dichloroethane	1.0	BDL
26	1,2-Dichloroethane	1.0	BDL
27	1,1-Dichloroethylene	1.0	BDL
28	trans-1,2-Dichloroethylene	1.0	BDL
29	Dichloromethane	1.0	BDL
30	1,2-Dichloropropane	1.0	BDL
31	1,3-Dichloropropylene	1.0	BDL
32	1,1,2,2-Tetrachloroethane	1.0	BDL
33	1,1,1,2-Tetrachloroethane	1.0	BDL
34	Tetrachloroethylene	1.0	BDL
35	1,1,1-Trichloroethane	1.0	BDL
36	1,1,2-Trichloroethane	1.0	BDL
37	Trichloroethylene	1.0	BDL
38	Trichlorofluoromethane	1.0	BDL
39	Trichloropropane	1.0	BDL
40	Vinyl chloride	1.0	BDL

BDL: Below Detection Limit

X-50

IEA REPORT DATE: JANUARY 26, 1987

IEA REPORT NO.: 103-107
103-108
103-109
103-110

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 2

Sample Identification Tag 0081

Date Analyzed January 16, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 5Sample Identification Tag 0094Date Analyzed January 16, 1987By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103107 10

Sample Identification Tag 0108

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE OUT

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-108

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on January 9, 1987.

		Tag ¹⁾ <u>0121</u>	Tag <u>0127</u>	Tag <u>0133</u>	Tag <u>0139</u>
Petroleum					
Hydrocarbons	mg/L	<2.0	<2.0	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

1) Valid Data (see appendix X)

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROCARBON ANALYSIS

X-55

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

(Date Error
16 ≠ 23)

Purgeable Aromatics

IEA Sample No. 103108 10

Sample Identification Tag 0135

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103108 2Sample Identification Tag 0118Date Analyzed January 16, 1987By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropane	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103108 8

Sample Identification Tag 0130

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103108 11Sample Identification Tag 0136Date Analyzed January 16, 1987By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethyvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

IEA REPORT DATE: FEBRUARY 3, 1987

IEA REPORT NO.: 103-113
103-114
103-115
103-116
103-117

February 3, 1987
IEA Report No. 103-116

		<u>Tag 0301</u>
Acrylamide	ug/L	<10
Carbon Disulfide	ug/L	<10
Diethyl Ether	ug/L	<10
Methyl Ethyl Ketone	ug/L	<10
Methyl Isobutyl Ketone	ug/L	<10
Paraldehyde	ug/L	<10

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103116 7Sample Identification Tag 0298Date Analyzed January 23, 1987By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>		<u>Results</u>
		<u>ug/L</u>		<u>Concentration</u>
		<u>ug/L</u>		<u>ug/L</u>
1	Bromodichloromethane	1.0		BDL
2	Bromoform	1.0		BDL
3	Bromomethane	1.0		BDL
4	Carbon tetrachloride	1.0		BDL
5	Chlorobenzene	1.0		BDL
6	Chloroethane	1.0		BDL
7	2-Chloroethylvinyl ether	1.0		BDL
8	Chloroform	1.0		BDL
9	Chloromethane	1.0		BDL
10	Dibromochloromethane	1.0		BDL
11	1,2-Dichlorobenzene	1.0		BDL
12	1,3-Dichlorobenzene	1.0		BDL
13	1,4-Dichlorobenzene	1.0		BDL
14	Dichlorodifluoromethane	1.0		BDL
15	1,1-Dichloroethane	1.0		4.2
16	1,2-Dichloroethane	1.0		BDL
17	1,1-Dichloroethene	1.0		BDL
18	trans-1,2-Dichloroethene	1.0		BDL
19	1,2-Dichloropropane	1.0		BDL
20	cis-1,3-Dichloropropene	1.0		BDL
21	trans-1,3-Dichloropropene	1.0		BDL
22	Methylene chloride	1.0		7.5
23	1,1,2,2-Tetrachloroethane	1.0		BDL
24	1,1,1-Trichloroethane	1.0		4.5
25	1,1,2-Trichloroethane	1.0		BDL
26	Tetrachloroethene	1.0		BDL
27	Trichlorofluoromethane	1.0		BDL
28	Vinyl Chloride	1.0		BDL
29	Trichloroethene	1.0		1.0

February 3, 1987
IEA Report No. 103-117

		<u>Tag 0312</u>
Acrylamide	µg/L	<10
Carbon Disulfide	µg/L	<10
Diethyl Ether	µg/L	<10
Methyl Ethyl Ketone	µg/L	<10
Methyl Isobutyl Ketone	µg/L	<10
Paraldehyde	µg/L	<10

IEA REPORT DATE: FEBRUARY 5, 1987

IEA REPORT NO.: 103-118

February 5, 1987
IEA Report No. 103-118

		<u>Tag</u> <u>0371</u>	<u>Tag</u> <u>0375</u>
Acrylamide	ug/Kg	<25	<25
Carbon Disulfide	ug/Kg	<25	<25
Diethyl Ether	ug/Kg	<25	<25
Methyl Ethyl Ketone	ug/Kg	<25	<25
Methyl Isobutyl Ketone	ug/Kg	<25	<25
Paraldehyde	ug/Kg	<25	<25

Comments BDL - BELOW DETECTION LIMIT
Sample diluted by 250.

625P

GC/MS PCB/Pesticides

IEA Sample No. 103118 1

Sample Identification SD 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	2500	BDL
2	Alpha - BHC	2500	BDL
3	Beta - BHC	2500	BDL
4	Delta - BHC	2500	BDL
5	Gamma - BHC	2500	BDL
6	CHLORDANE	2500	BDL
7	4,4'-DDD	2500	BDL
8	4,4'-DDE	2500	BDL
9	4,4'-DDT	2500	BDL
10	DIELDRIN	2500	BDL
11	ENDOSULFAN I	2500	BDL
12	ENDOSULFAN II	2500	BDL
13	ENDOSULFAN SULFATE	2500	BDL
14	ENDRIN	2500	BDL
15	ENDRIN ALDEHYDE	2500	BDL
16	HEPTACHLOR	2500	BDL
17	HEPTACHLOR EPOXIDE	2500	BDL
18	TOXAPHENE	2500	BDL
19	PCB 1015	2500	BDL
20	PCB 1221	2500	BDL
21	PCB 1232	2500	BDL
22	PCB 1242	2500	BDL
23	PCB 1248	2500	BDL
24	PCB 1254	2500	BDL
25	PCB 1260	2500	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 105118 2

Sample Identification SD 13A Tag 0375

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ALDRIN	2500	BDL
2	Alpha - BHC	2500	BDL
3	Beta - BHC	2500	BDL
4	Delta - BHC	2500	BDL
5	Gamma - BHC	2500	BDL
6	CHLORDANE	2500	BDL
7	4,4'-DDD	2500	BDL
8	4,4'-DDE	2500	BDL
9	4,4'-DDT	2500	BDL
10	DIELDRIN	2500	BDL
11	ENDOSULFAN I	2500	BDL
12	ENDOSULFAN II	2500	BDL
13	ENDOSULFAN SULFATE	2500	BDL
14	ENDRIN	2500	BDL
15	ENDRIN ALDEHYDE	2500	BDL
16	HEPTACHLOR	2500	BDL
17	HEPTACHLOR EPOXIDE	2500	BDL
18	TOXAPHENE	2500	BDL
19	PCB 1016	2500	BDL
20	PCB 1221	2500	BDL
21	PCB 1232	2500	BDL
22	PCB 1242	2500	BDL
23	PCB 1248	2500	BDL
24	PCB 1254	2500	BDL
25	PCB 1260	2500	BDL

Comments

BDL - BELOW DETECTION LIMIT
Sample diluted by 250.

625A

GC/MS Acid Extractables

IEA Sample No. 103118 1

Sample Identification SD 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	Results
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	6250	BDL
2	2-CHLOROPHENOL	6250	BDL
3	2,4-DICHLOROPHENOL	6250	BDL
4	2,4-DIMETHYLPHENOL	6250	BDL
5	2,4-DINITROPHENOL	62,500	BDL
6	2-METHYL-4,6-DINITROPHENOL	62,500	BDL
7	2-NITROPHENOL	6250	BDL
8	4-NITROPHENOL	6250	BDL
9	PENTACHLOROPHENOL	6250	BDL
10	PHENOL	6250	BDL
11	2,4,6-TRICHLOROPHENOL	6250	BDL

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 250.

625A

GC/MS Acid Extractables

IEA Sample No. 103118 2

Sample Identification SD 13A Tag 0375

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	6250	BDL
2	2-CHLOROPHENOL	6250	BDL
3	2,4-DICHLOROPHENOL	6250	BDL
4	2,4-DIMETHYLPHENOL	6250	BDL
5	2,4-DINITROPHENOL	62,500	BDL
6	2-METHYL-4,6-DINITROPHENOL	62,500	BDL
7	2-NITROPHENOL	6250	BDL
8	4-NITROPHENOL	6250	BDL
9	PENTACHLOROPHENOL	6250	BDL
10	PHENOL	6250	BDL
11	2,4,6-TRICHLOROPHENOL	6250	BDL

Comments

BDL - BELOW DETECTION LIMIT

6258N

Sample diluted by 250.

IEA Sample No. 103118 1

Sample Identification SD 12A Tag 0371

Date Extracted January 30, 1987

Date Analyzed February 3, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	6250	BDL
2	ACENAPHTHYLENE	2500	BDL
3	ANTHRACENE	2500	BDL
4	BENZIDINE	2500	BDL
5	BENZO (a) ANTHRACENE	2500	BDL
6	BENZO (a) PYRENE	2500	BDL
7	BENZO (b) FLUORANTHENE	2500	BDL
8	BENZO (ghi) PERYLENE	6250	BDL
9	BENZO (k) FLUORANTHENE	2500	BDL
10	BIS (2-CHLOROETHOXY) METHANE	2500	BDL
11	BIS (2-CHLOROETHYL) ETHER	2500	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	2500	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	2500	BDL
14	4-BROMOPHENYL PHENYL ETHER	2500	BDL
15	BENZYL BUTYL PHTHALATE	2500	BDL
16	2-CHLORONAPHTHALENE	2500	BDL
17	4-CHLOROPHENYL PHENYL ETHER	2500	BDL
18	CHRYSENE	2500	BDL
19	DIBENZO (a,h) ANTHRACENE	2500	BDL
20	1,2-DICHLOROBENZENE	2500	BDL
21	1,3-DICHLOROBENZENE	2500	BDL
22	1,4-DICHLOROBENZENE	2500	BDL
23	3,3'-DICHLOROBENZIDINE	2500	BDL
24	DIETHYL PHTHALATE	2500	BDL
25	DIMETHYL PHTHALATE	2500	BDL
26	DI-N-BUTYL PHTHALATE	2500	BDL
27	2,4-DINITROTOLUENE	2500	BDL
28	2,6-DINITROTOLUENE	2500	BDL
29	DI-N-OCTYL PHTHALATE	2500	BDL
30	FLUORANTHENE	2500	BDL
31	FLUORENE	2500	BDL
32	HEMACHLOROBENZENE	2500	BDL
33	HEMACHLOROBUTADIENE	2500	BDL
34	HEMACHLOROCYCLOPENTADIENE	2500	BDL
35	HEMACHLOROETHANE	2500	BDL
36	INDENO (1,2,3-cd) PYRENE	6250	BDL
37	ISOPHORONE	2500	BDL
38	NAPHTHALENE	2500	BDL
39	NITROBENZENE	2500	BDL
40	N-NITROSDIMETHYLAMINE	2500	BDL
41	N-NITROSDI-N-PROPYLAMINE	2500	BDL
42	N-NITROSDIPHENYLAMINE	2500	BDL
43	PHENANTHRENE	2500	BDL
44	PYRENE X-70	2500	BDL
45	1,2,4-TRICHLOROBENZENE	2500	BDL

Comments

BDL - BELOW DETECTION LIMIT

6256N

Sample diluted by 250.

IEA Sample No. 103118 2Sample Identification SD 13A Tag 0375Date Extracted January 30, 1987Date Analyzed February 3, 1987By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

Number	Compound	Detection Limit ug/Kg	Concentration ug/Kg
1	ACENAPHTHENE	6250	BDL
2	ACENAPHTHYLENE	2500	BDL
3	ANTHRACENE	2500	BDL
4	BENZIDINE	2500	BDL
5	BENZO (a) ANTHRACENE	2500	BDL
6	BENZO (a) PYRENE	2500	BDL
7	BENZO (b) FLUORANTHENE	2500	BDL
8	BENZO (ghi) PERYLENE	6250	BDL
9	BENZO (k) FLUORANTHENE	2500	BDL
10	BIS (2-CHLOROETHOXY) METHANE	2500	BDL
11	BIS (2-CHLOROETHYL) ETHER	2500	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	2500	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	2500	BDL
14	4-BROMOPHENYL PHENYL ETHER	2500	BDL
15	BENZYL BUTYL PHTHALATE	2500	BDL
16	2-CHLORONAPHTHALENE	2500	BDL
17	4-CHLOROPHENYL PHENYL ETHER	2500	BDL
18	CHRYSENE	2500	BDL
19	DIBENZO (a,b) ANTHRACENE	2500	BDL
20	1,2-DICHLOROBENZENE	2500	BDL
21	1,3-DICHLOROBENZENE	2500	BDL
22	1,4-DICHLOROBENZENE	2500	BDL
23	3,3'-DICHLOROBENZIDINE	2500	BDL
24	DIETHYL PHTHALATE	2500	BDL
25	DIMETHYL PHTHALATE	2500	BDL
26	DI-N-BUTYL PHTHALATE	2500	BDL
27	2,4-DINITROTOLUENE	2500	BDL
28	2,6-DINITROTOLUENE	2500	BDL
29	DI-N-OCTYLPHTHALATE	2500	BDL
30	FLUORANTHENE	2500	BDL
31	FLUORENE	2500	BDL
32	HEXACHLOROBENZENE	2500	BDL
33	HEXACHLOROBUTADIENE	2500	BDL
34	HEXACHLOROCYCLOPENTADIENE	2500	BDL
35	HEXACHLOROETHANE	2500	BDL
36	INDENO (1,2,3-cd) PYRENE	6250	BDL
37	ISOPHORONE	2500	BDL
38	NAPHTHALENE	2500	BDL
39	NITROBENZENE	2500	BDL
40	N-NITROSDIMETHYLAMINE	2500	BDL
41	N-NITROSDI-N-PROPYLAMINE	2500	BDL
42	N-NITROSDIPHENYLAMINE	2500	BDL
43	PHENANTHRENE	2500	BDL
44	PYRENE	2500	BDL
45	1,2,4-TRICHLOROBENZENE	2500	BDL

IEA REPORT DATE: FEBRUARY 6, 1987

IEA REPORT NO.: 103-120



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 6, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-120

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on two samples submitted to our laboratory on February 4, 1987.

Please see the enclosed report for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Senior Chemist

JBA/tdc

RECEIVED

FEB 11 1987

HYDROGEOLOGY DEPARTMENT

X-73

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

February 6, 1987
Report #103-120

	<u>#1</u>	<u>#2</u>
Acrylamide	µg/L <10	<10
Carbon Disulfide	µg/L <10	<10
Diethyl, Ether	µg/L <10	<10
Methyl, Ethyl, Ketone	µg/L <10	<10
Methyl, Isobutyl, Ketone	µg/L <10	<10
Paraldehyde	µg/L <10	<10

IEA REPORT DATE: FEBRUARY 26, 1987

IEA REPORT NO.: 103-119



Industrial & Environmental Analysts, Inc.
 P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 26, 1987

RECEIVED

Mr. Joe Alexander
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

MAR 2 1987

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-119

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on sixteen samples submitted to our laboratory on January 30, 1987.

	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>Tag</u> ¹⁾ <u>0385</u>	<u>Tag</u> ¹⁾ <u>0379</u>	<u>Tag</u> <u>0484</u>	<u>Tag</u> <u>0498</u>
Petroleum Hydrocarbons	2-6-87	2-6-87	<38 mg/Kg	<25 mg/Kg	<2.0 mg/L	<2.0 mg/L

Please see the enclosed reports for the remainder of your results.

1) Valid Data.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
 Joseph B. Adamovic
 Senior Chemist

JBA/jcl

February 26, 1987
IEA Report No. 103-119

	<u>Tag</u> <u>0385</u> <u>µg/Kg</u>	<u>Tag</u> <u>0379</u> <u>µg/Kg</u>	<u>Tag</u> <u>0480</u> <u>µg/L</u>	<u>Tag</u> <u>0494</u> <u>µg/L</u>
Acrylamide	<10	<10	<10	<10
Carbon Disulfide	<10	<10	<10	<10
Diethyl Ether	<10	<10	<10	<10
Methyl Ethyl Ketone	<10	<10	<10	<10
Methyl Isobutyl Ketone	<10	<10	<10	<10
Paraldehyde	<10	<10	<10	<10
Date Analyzed	2-3-87	2-3-87	2-3-87	2-3-87

Comments BDL - BELOW DETECTION LIMIT
Sample diluted by 50.

625A

Acid Extractables

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1250	BDL
2	2-CHLOROPHENOL	1250	BDL
3	2,4-DICHLOROPHENOL	1250	BDL
4	2,4-DIMETHYLPHENOL	1250	BDL
5	2,4-DINITROPHENOL	12,500	BDL
6	2-METHYL-4,6-DINITROPHENOL	12,500	BDL
7	2-NITROPHENOL	1250	BDL
8	4-NITROPHENOL	1250	BDL
9	PENTACHLOROPHENOL	1250	BDL
10	PHENOL	1250	BDL
11	2,4,6-TRICHLOROPHENOL	1250	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 2

Sample Identification Tag 0379

Date Analyzed February 4, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
			<u>µg/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

Sample diluted by 50.

GC/MS PCB/Pesticides

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	500	BDL
2	Alpha - BHC	500	BDL
3	Beta - BHC	500	BDL
4	Delta - BHC	500	BDL
5	Gamma - BHC	500	BDL
6	CHLORDANE	500	BDL
7	4,4'-DDD	500	BDL
8	4,4'-DDE	500	BDL
9	4,4'-DDT	500	BDL
10	DIELDRIN	500	BDL
11	ENDOSULFAN I	500	BDL
12	ENDOSULFAN II	500	BDL
13	ENDODULFAN SULFATE	500	BDL
14	ENDRIN	500	BDL
15	ENDRIN ALDEHYDE	500	BDL
16	HEPTACHLOR	500	BDL
17	HEPTACHLOR EPOXIDE	500	BDL
18	TOXAPHENE	500	BDL
19	PCB 1016	500	BDL
20	PCB 1221	500	BDL
21	PCB 1232	500	BDL
22	PCB 1242	500	BDL
23	PCB 1248	500	BDL
24	PCB 1254	500	BDL
25	PCB 1260	500	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

Sample diluted by 50.

IEA Sample No. 103119 2

Sample Identification 0379 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		µg/Kg	µg/Kg
1	ACENAPHTHENE	1250	BDL
2	ACENAPHTHYLENE	500	BDL
3	ANTHRACENE	500	BDL
4	BENZIDINE	500	BDL
5	BENZO (a) ANTHRACENE	500	BDL
6	BENZO (a) PYRENE	500	BDL
7	BENZO (b) FLUORANTHENE	500	BDL
8	BENZO (ghi) PERYLENE	1250	BDL
9	BENZO (k) FLUORANTHENE	500	BDL
10	BIS (2-CHLOROETHOXY) METHANE	500	BDL
11	BIS (2-CHLOROETHYL) ETHER	500	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	500	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	500	BDL
14	4-BROMOPHENYL PHENYL ETHER	500	BDL
15	BENZYL BUTYL PHTHALATE	500	BDL
16	2-CHLORONAPHTHALENE	500	BDL
17	4-CHLOROPHENYL PHENYL ETHER	500	BDL
18	CHRYSENE	500	BDL
19	DIBENZO (a,h) ANTHRACENE	500	BDL
20	1,2-DICHLOROBENZENE	500	BDL
21	1,3-DICHLOROBENZENE	500	BDL
22	1,4-DICHLOROBENZENE	500	BDL
23	3,3'-DICHLOROBENZIDINE	500	BDL
24	DIETHYL PHTHALATE	500	BDL
25	DIMETHYL PHTHALATE	500	BDL
26	DI-N-BUTYL PHTHALATE	500	BDL
27	2,4-DINITROTOLUENE	500	BDL
28	2,6-DINITROTOLUENE	500	BDL
29	DI-N-OCTYLPHTHALATE	500	BDL
30	FLUORANTHENE	500	BDL
31	FLUORENE	500	BDL
32	HEXACHLOROBENZENE	500	BDL
33	HEXACHLOROBUTADIENE	500	BDL
34	HEXACHLOROCYCLOPENTADIENE	500	BDL
35	HEXACHLOROETHANE	500	BDL
36	INDENO (1,2,3-cd) PYRENE	1250	BDL
37	ISOPHORONE	500	BDL
38	NAPHTHALENE	500	BDL
39	NITROBENZENE	500	BDL
40	N-NITROSODIMETHYLAMINE	500	BDL
41	N-NITroso-DI-N-PROPYLAMINE	500	BDL
42	N-NITROSODIPHENYLAMINE	500	BDL
43	PHENANTHRENE	500	BDL
44	PYRENE	500	BDL
45	1,2,4-TRICHLOROBENZENE	500	BDL

Comments

BDL - BELOW DETECTION LIMIT

Sample diluted by 50.

625A

Acid Extractables

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1250	BDL
2	2-CHLOROPHENOL	1250	BDL
3	2,4-DICHLOROPHENOL	1250	BDL
4	2,4-DIMETHYLPHENOL	1250	BDL
5	2,4-DINITROPHENOL	12,500	BDL
6	2-METHYL-4,6-DINITROPHENOL	12,500	BDL
7	2-NITROPHENOL	1250	BDL
8	4-NITROPHENOL	1250	BDL
9	PENTACHLOROPHENOL	1250	BDL
10	PHENOL	1250	BDL
11	2,4,6-TRICHLOROPHENOL	1250	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 1

Sample Identification Tag 0385

Date Analyzed February 4, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
			<u>µg/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

Sample diluted by 50.

GC/MS PCB/Pesticides

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	ALDRIN	500	BDL
2	Alpha - BHC	500	BDL
3	Beta - BHC	500	BDL
4	Delta - BHC	500	BDL
5	Gamma - BHC	500	BDL
6	CHLORDANE	500	BDL
7	4,4'-DDD	500	BDL
8	4,4'-DDE	500	BDL
9	4,4'-DDT	500	BDL
10	DIELDRIN	500	BDL
11	ENDOSULFAN I	500	BDL
12	ENDOSULFAN II	500	BDL
13	ENDOSULFAN SULFATE	500	BDL
14	ENDRIN	500	BDL
15	ENDRIN ALDEHYDE	500	BDL
16	HEPTACHLOR	500	BDL
17	HEPTACHLOR EPOXIDE	500	BDL
18	TOXAPHENE	500	BDL
19	PCB 1016	500	BDL
20	PCB 1221	500	BDL
21	PCB 1232	500	BDL
22	PCB 1242	500	BDL
23	PCB 1248	500	BDL
24	PCB 1254	500	BDL
25	PCB 1260	500	BDL

Comments BDL - BELOW DETECTION LIMIT

6258N

Sample diluted by 50.

IEA Sample No. 103119 1

Sample Identification 0385 Brass Tube

Date Extracted February 4, 1987

Date Analyzed February 23, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		µg/Kg	µg/Kg
1	ACENAPHTHENE	1250	BDL
2	ACENAPHTHYLENE	500	BDL
3	ANTHRACENE	500	BDL
4	BENZIDINE	500	BDL
5	BENZO (a) ANTHRACENE	500	BDL
6	BENZO (a) PYRENE	500	BDL
7	BENZO (b) FLUORANTHENE	500	BDL
8	BENZO (ghi) PERYLENE	1250	BDL
9	BENZO (k) FLUORANTHENE	500	BDL
10	BIS (2-CHLOROETHOXY) METHANE	500	BDL
11	BIS (2-CHLOROETHYL) ETHER	500	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	500	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	500	BDL
14	4-BROMOPHENYL PHENYL ETHER	500	BDL
15	BENZYL BUTYL PHTHALATE	500	BDL
16	2-CHLORONAPHTHALENE	500	BDL
17	4-CHLOROPHENYL PHENYL ETHER	500	BDL
18	CHRYSENE	500	BDL
19	DIBENZO (a,h) ANTHRACENE	500	BDL
20	1,2-DICHLOROBENZENE	500	BDL
21	1,3-DICHLOROBENZENE	500	BDL
22	1,4-DICHLOROBENZENE	500	BDL
23	3,3'-DICHLOROBENZIDINE	500	BDL
24	DIETHYL PHTHALATE	500	BDL
25	DIMETHYL PHTHALATE	500	BDL
26	DI-N-BUTYL PHTHALATE	500	BDL
27	2,4-DINITROTOLUENE	500	BDL
28	2,6-DINITROTOLUENE	500	BDL
29	DI-N-OCTYLPHTHALATE	500	BDL
30	FLUORANTHENE	500	BDL
31	FLUORENE	500	BDL
32	HEXACHLOROBENZENE	500	BDL
33	HEXACHLOROBUTADIENE	500	BDL
34	HEXACHLOROCYCLOPENTADIENE	500	BDL
35	HEXACHLOROETHANE	500	BDL
36	INDENO (1,2,3-cd) PYRENE	1250	BDL
37	ISOPHORONE	500	BDL
38	NAPHTHALENE	500	BDL
39	NITROBENZENE	500	BDL
40	N-NITROSODIMETHYLAMINE	500	BDL
41	N-NITroso-DI-N-PROPYLAMINE	500	BDL
42	N-NITROSODIPHENYLAMINE	500	BDL
43	PHENANTHRENE	500	BDL
44	PYRENE	500	BDL
45	1,2,4-TRICHLOROBENZENE	500	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 3

Sample Identification Tag 0476

Date Analyzed February 4, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u>
		<u>µg/L</u>	<u>µg/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103119 4

Sample Identification Tag 0477

Date Analyzed February 4, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103119 8

Sample Identification 0486

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103119 8

Sample Identification 0486

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103119 9

Sample Identification 0487

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103119 10

Sample Identification Tag 0490

Date Analyzed February 4, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103119 15 Sample Identification 0500
Date Extracted February 4, 1987 Date Analyzed February 10, 1987
By King

GC/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103119 15

Sample Identification 0500

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103119 16

Sample Identification 0501

Date Extracted February 4, 1987

Date Analyzed February 10, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-Trifluoroethane -
Concentration: 14 µg/Kg

Purgeable Halocarbons

IEA Sample No. 103119 2

Sample Identification Tag 0379

Date Analyzed February 5, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	1.1
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-Trifluoroethane -
Concentration: 15 µg/Kg

Purgeable Halocarbons

IEA Sample No. 103119 1

Sample Identification Tag 0385

Date Analyzed February 4, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethane	1.0	BDL
18	trans-1,2-Dichloroethane	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	8.5
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethane	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103119 11

Sample Identification Tag 0491

Date Analyzed February 4, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethene	1.0	BDL
16	1,2-Dichloroethene	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	2.7

IEA REPORT DATE: MARCH 17, 1987

IEA REPORT NO.: 103-123
103-125
103-126



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-123

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twenty-two samples submitted to our laboratory on March 2, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

TBA

JBA/jcl

X-99

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 3

Sample Identification 0579

Date Analyzed March 4, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	8.0
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	3.0
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Confirmatory analysis on 3% SP- 1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 3

Sample Identification 0579

Date Analyzed March 4, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Lg</u>	<u>Concentration</u>
			<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	11
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 5

Sample Identification 0581

Date Analyzed March 2, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 7

Sample Identification 0583

Date Analyzed March 2, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 11

Sample Identification 0585

Date Analyzed March 2, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u>
			<u>µg/L</u>
1	Benzene	1.0	5.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 11

Sample Identification 0585

Date Analyzed March 2, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	5.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 15

Sample Identification 0587

Date Analyzed March 2, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>µg/L</u>	<u>µg/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 2, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	Benzene	1.0	7.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments **BDL - BELOW DETECTION LIMIT**
Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 2, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u>
			<u>µg/L</u>
1	Benzene	1.0	7.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 1

Sample Identification 0806

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Benzene	1.0	5.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable Halocarbons

IEA Sample No. 103123 3

Sample Identification 0579

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	23
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable Halocarbons

IEA Sample No. 103123 4

Sample Identification 0580

Date Analyzed March 11, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	13
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 5

Sample Identification 0581

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	3.6
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-100 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 7

Sample Identification 0583

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	6.0
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	1.0
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	6.0
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable Halocarbons

IEA Sample No. 103123 11

Sample Identification 0585

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethyl vinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	13
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	3.6

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 15

Sample Identification 0587

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	1.7
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable Halocarbons

IEA Sample No. 103123 19

Sample Identification 0589

Date Analyzed March 1, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>µg/L</u>	<u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	41
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	3.8

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable Halocarbons

IEA Sample No. 103123 1

Sample Identification 0806

Date Analyzed March 1, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

RECEIVED

MAR 16 1987

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 1, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-125

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on eight samples submitted to our laboratory on March 3, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIROMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist
TSU

JBA/jcl

X-121

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103125 1

Sample Identification 0077

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103125 2

Sample Identification 0078

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 1

Sample Identification 0077

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	6.0
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	12
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	25
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	79

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 1

Sample Identification 0077

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	12
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	22

Comments

BDL - BELOW DETECTION LIMIT

Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 5

Sample Identification 0547

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	3.0

Comments

BDL - BELOW DETECTION LIMIT
Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103125 5

Sample Identification 0547

Date Analyzed March 3, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	3.0



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEN...

Reference: IEA Report No. 103-126

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on eight samples submitted to our laboratory on March 5, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

TSA

JBA/jcl

X-128

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	2.0
2	Chlorobenzene	1.0	15
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	7.0
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	4.0

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	Benzene	1.0	2.0
2	Chlorobenzene	1.0	12
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	14
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	2.0

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

602

Purgeable Aromatics

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	8.0
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	13
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

602

Purgeable Aromatics

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	7.0
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	12
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT
Analyzed on 1% SP-1000 column.

601

Purgeable Halocarbons

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	15
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	7.0
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103126 1

Sample Identification 0069

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	12
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	14
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Analyzed on 1% SP-1000 column.

Purgeable Halocarbons

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	8.0
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	13
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT
601 Confirmatory analysis on 3% SP-1500 column.

Purgeable Halocarbons

IEA Sample No. 103126 5

Sample Identification 0073

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	8.0
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	12
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

IEA SAMPLE NO.: 103-132

Comments BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 5

Sample Identification 0572

Date Analyzed April 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 2

Sample Identification 0752

Date Analyzed April 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL

Comments BQL - BELOW QUANTITATION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103132 3

Sample Identification 0754

Date Analyzed April 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u> <u>ug/Kg</u>	<u>Results</u> <u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BQL
2	Chlorobenzene	1.0	BQL
3	1,2-Dichlorobenzene	1.0	BQL
4	1,3-Dichlorobenzene	1.0	BQL
5	1,4-Dichlorobenzene	1.0	BQL
6	Ethylbenzene	1.0	BQL
7	Toluene	1.0	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BQL
2	2-CHLOROPHENOL	1000	BQL
3	2,4-DICHLOROPHENOL	1000	BQL
4	2,4-DIMETHYLPHENOL	1000	BQL
5	2,4-DINITROPHENOL	10,000	BQL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BQL
7	2-NITROPHENOL	1000	BQL
8	4-NITROPHENOL	1000	BQL
9	PENTACHLOROPHENOL	1000	BQL
10	PHENOL	1000	BQL
11	2,4,6-TRICHLOROPHENOL	1000	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625A

Acid Extractables

IEA Sample No. 103132 4

Sample Identification 0570

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BQL
2	2-CHLOROPHENOL	1000	BQL
3	2,4-DICHLOROPHENOL	1000	BQL
4	2,4-DIMETHYLPHENOL	1000	BQL
5	2,4-DINITROPHENOL	10,000	BQL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BQL
7	2-NITROPHENOL	1000	BQL
8	4-NITROPHENOL	1000	BQL
9	PENTACHLOROPHENOL	1000	BQL
10	PHENOL	1000	BQL
11	2,4,6-TRICHLOROPHENOL	1000	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 2

Sample Identification 0752

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BQL
2	2-CHLOROPHENOL	1000	BQL
3	2,4-DICHLOROPHENOL	1000	BQL
4	2,4-DIMETHYLPHENOL	1000	BQL
5	2,4-DINITROPHENOL	10,000	BQL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BQL
7	2-NITROPHENOL	1000	BQL
8	4-NITROPHENOL	1000	BQL
9	PENTACHLOROPHENOL	1000	BQL
10	PHENOL	1000	BQL
11	2,4,6-TRICHLOROPHENOL	1000	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BQL
2	2-CHLOROPHENOL	1000	BQL
3	2,4-DICHLOROPHENOL	1000	BQL
4	2,4-DIMETHYLPHENOL	1000	BQL
5	2,4-DINITROPHENOL	10,000	BQL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BQL
7	2-NITROPHENOL	1000	BQL
8	4-NITROPHENOL	1000	BQL
9	PENTACHLOROPHENOL	1000	BQL
10	PHENOL	1000	BQL
11	2,4,6-TRICHLOROPHENOL	1000	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BQL
2	Alpha - BHC	400	BQL
3	Beta - BHC	400	BQL
4	Delta - BHC	400	BQL
5	Gamma - BHC	400	BQL
6	CHLORDANE	400	BQL
7	4,4'-DDD	400	BQL
8	4,4'-DDE	400	BQL
9	4,4'-DDT	400	BQL
10	DIELDRIN	400	BQL
11	ENDOSULFAN I	400	BQL
12	ENDOSULFAN II	400	BQL
13	ENDODULFAN SULFATE	400	BQL
14	ENDRIN	400	BQL
15	ENDRIN ALDEHYDE	400	BQL
16	HEPTACHLOR	400	BQL
17	HEPTACHLOR EPOXIDE	400	BQL
18	TOXAPHENE	400	BQL
19	PCB 1016	400	BQL
20	PCB 1221	400	BQL
21	PCB 1232	400	BQL
22	PCB 1242	400	BQL
23	PCB 1248	400	BQL
24	PCB 1254	400	BQL
25	PCB 1260	400	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

(NOTE: 625P
is a) 2000
Limit 1000)

GC/MS PCB/Pesticides

IEA Sample No. 103132 4

Sample Identification 0570

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BQL
2	Alpha - BHC	400	BQL
3	Beta - BHC	400	BQL
4	Delta - BHC	400	BQL
5	Gamma - BHC	400	BQL
6	CHLORDANE	400	BQL
7	4,4'-DDD	400	BQL
8	4,4'-DDE	400	BQL
9	4,4'-DDT	400	BQL
10	DIELDRIN	400	BQL
11	ENDOSULFAN I	400	BQL
12	ENDOSULFAN II	400	BQL
13	ENDODULFAN SULFATE	400	BQL
14	ENDRIN	400	BQL
15	ENDRIN ALDEHYDE	400	BQL
16	HEPTACHLOR	400	BQL
17	HEPTACHLOR EPOXIDE	400	BQL
18	TOXAPHENE	400	BQL
19	PCB 1016	400	BQL
20	PCB 1221	400	BQL
21	PCB 1232	400	BQL
22	PCB 1242	400	BQL
23	PCB 1248	400	BQL
24	PCB 1254	400	BQL
25	PCB 1260	400	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 2

Sample Identification 0752

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BQL
2	Alpha - BHC	400	BQL
3	Beta - BHC	400	BQL
4	Delta - BHC	400	BQL
5	Gamma - BHC	400	BQL
6	CHLORDANE	400	BQL
7	4,4'-DDD	400	BQL
8	4,4'-DDE	400	BQL
9	4,4'-DDT	400	BQL
10	DIELDRIN	400	BQL
11	ENDOSULFAN I	400	BQL
12	ENDOSULFAN II	400	BQL
13	ENDODULFAN SULFATE	400	BQL
14	ENDRIN	400	BQL
15	ENDRIN ALDEHYDE	400	BQL
16	HEPTACHLOR	400	BQL
17	HEPTACHLOR EPOXIDE	400	BQL
18	TOXAPHENE	400	BQL
19	PCB 1016	400	BQL
20	PCB 1221	400	BQL
21	PCB 1232	400	BQL
22	PCB 1242	400	BQL
23	PCB 1248	400	BQL
24	PCB 1254	400	BQL
25	PCB 1260	400	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BQL
2	Alpha - BHC	400	BQL
3	Beta - BHC	400	BQL
4	Delta - BHC	400	BQL
5	Gamma - BHC	400	BQL
6	CHLORDANE	400	BQL
7	4,4'-DDD	400	BQL
8	4,4'-DDE	400	BQL
9	4,4'-DDT	400	BQL
10	DIELDRIN	400	BQL
11	ENDOSULFAN I	400	BQL
12	ENDOSULFAN II	400	BQL
13	ENDODULFAN SULFATE	400	BQL
14	ENDRIN	400	BQL
15	ENDRIN ALDEHYDE	400	BQL
16	HEPTACHLOR	400	BQL
17	HEPTACHLOR EPOXIDE	400	BQL
18	TOXAPHENE	400	BQL
19	PCB 1016	400	BQL
20	PCB 1221	400	BQL
21	PCB 1232	400	BQL
22	PCB 1242	400	BQL
23	PCB 1248	400	BQL
24	PCB 1254	400	BQL
25	PCB 1260	400	BQL

Comments BQL - BELOW QUANTITATION LIMIT

e

IEA Sample No. 103132 1

Sample Identification 0568

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

1	ACENAPHTHENE	1000	BQL
2	ACENAPHTHYLENE	400	BQL
3	ANTHRACENE	400	BQL
4	BENZIDINE	400	BQL
5	BENZO (a) ANTHRACENE	400	BQL
6	BENZO (a) PYRENE	400	BQL
7	BENZO (b) FLUORANTHENE	400	BQL
8	BENZO (ghi) PERYLENE	1000	BQL
9	BENZO (k) FLUORANTHENE	400	BQL
10	BIS (2-CHLOROETHOXY) METHANE	400	BQL
11	BIS (2-CHLOROETHYL) ETHER	400	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	3000
14	4-BROMOPHENYL PHENYL ETHER	400	BQL
15	BENZYL BUTYL PHTHALATE	400	BQL
16	2-CHLORONAPHTHALENE	400	BQL
17	4-CHLOROPHENYL PHENYL ETHER	400	BQL
18	CHRYSENE	400	BQL
19	DIBENZO (a,h) ANTHRACENE	400	BQL
20	1,2-DICHLOROBENZENE	400	BQL
21	1,3-DICHLOROBENZENE	400	BQL
22	1,4-DICHLOROBENZENE	400	BQL
23	3,3'-DICHLOROBENZIDINE	400	BQL
24	DIETHYL PHTHALATE	400	BQL
25	DIMETHYL PHTHALATE	400	BQL
26	DI-N-BUTYL PHTHALATE	400	BQL
27	2,4-DINITROTOLUENE	400	BQL
28	2,6-DINITROTOLUENE	400	BQL
29	DI-N-OCTYLPHTHALATE	400	BQL
30	FLUORANTHENE	400	BQL
31	FLUORENE	400	BQL
32	HEXACHLOROBENZENE	400	BQL
33	HEXACHLOROBUTADIENE	400	BQL
34	HEXACHLOROCYCLOPENTADIENE	400	BQL
35	HEXACHLOROETHANE	400	BQL
36	INDENO (1,2,3-cd) PYRENE	1000	BQL
37	ISOPHORONE	400	BQL
38	NAPHTHALENE	400	BQL
39	NITROBENZENE	400	BQL
40	N-NITROSODIMETHYLAMINE	400	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BQL
42	N-NITROSODIPHENYLAMINE	400	BQL
43	PHENANTHRENE	400	BQL
44	PYRENE	400	BQL
45	1,2,4-TRICHLOROBENZENE	400	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

g

IEA Sample No. 103132 4
 Date Extracted April 24, 1987

Sample Identification 0570
 Date Analyzed May 11, 1987
 By Daniels

(5-22-87)
 6-20-87

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BQL
2	ACENAPHTHYLENE	400	BQL
3	ANTHRACENE	400	BQL
4	BENZIDINE	400	BQL
5	BENZO (a) ANTHRACENE	400	BQL
6	BENZO (a) PYRENE	400	BQL
7	BENZO (b) FLUORANTHENE	400	BQL
8	BENZO (ghi) PERYLENE	1000	BQL
9	BENZO (k) FLUORANTHENE	400	BQL
10	BIS (2-CHLOROETHOXY) METHANE	400	BQL
11	BIS (2-CHLOROETHYL) ETHER	400	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	3200
14	4-BROMOPHENYL PHENYL ETHER	400	BQL
15	BENZYL BUTYL PHTHALATE	400	BQL
16	2-CHLORONAPHTHALENE	400	BQL
17	4-CHLOROPHENYL PHENYL ETHER	400	BQL
18	CHRYSENE	400	BQL
19	DIBENZO (a,h) ANTHRACENE	400	BQL
20	1,2-DICHLOROBENZENE	400	BQL
21	1,3-DICHLOROBENZENE	400	BQL
22	1,4-DICHLOROBENZENE	400	BQL
23	3,3'-DICHLOROBENZIDINE	400	BQL
24	DIETHYL PHTHALATE	400	BQL
25	DIMETHYL PHTHALATE	400	BQL
26	DI-N-BUTYL PHTHALATE	400	BQL
27	2,4-DINITROTOLUENE	400	BQL
28	2,6-DINITROTOLUENE	400	BQL
29	DI-N-OCTYL PHTHALATE	400	BQL
30	FLUORANTHENE	400	BQL
31	FLUORENE	400	BQL
32	HEXACHLOROBENZENE	400	BQL
33	HEXACHLOROBUTADIENE	400	BQL
34	HEXACHLOROCYCLOPENTADIENE	400	BQL
35	HEXACHLOROETHANE	400	BQL
36	INDENO (1,2,3-cd) PYRENE	1000	BQL
37	ISOPHORONE	400	BQL
38	NAPHTHALENE	400	BQL
39	NITROBENZENE	400	BQL
40	N-NITROSODIMETHYLAMINE	400	BQL
41	N-NITroso-DI-N-PROPYLAMINE	400	BQL
42	N-NITROSODIPHENYLAMINE	400	BQL
43	PHENANTHRENE	400	BQL
44	PYRENE	400	BQL
45	1,2,4-TRICHLOROBENZENE	400	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

2

IEA Sample No. 103132 2Sample Identification 0752Date Extracted April 24, 1987Date Analyzed May 11, 1987By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

NumberCompoundµg/Kgµg/Kg

1	ACENAPHTHENE	1000	BQL
2	ACENAPHTHYLENE	400	BQL
3	ANTHRACENE	400	BQL
4	BENZIDINE	400	BQL
5	BENZO (a) ANTHRACENE	400	BQL
6	BENZO (a) PYRENE	400	BQL
7	BENZO (b) FLUORANTHENE	400	BQL
8	BENZO (gm) PERYLENE	1000	BQL
9	BENZO (k) FLUORANTHENE	400	BQL
10	BIS (2-CHLOROETHOXY) METHANE	400	BQL
11	BIS (2-CHLOROETHYL) ETHER	400	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	5300
14	4-BROMOPHENYL PHENYL ETHER	400	BQL
15	BENZYL BUTYL PHTHALATE	400	BQL
16	2-CHLORONAPHTHALENE	400	BQL
17	4-CHLOROPHENYL PHENYL ETHER	400	BQL
18	CHRYSENE	400	BQL
19	DIBENZO (a,h) ANTHRACENE	400	BQL
20	1,2-DICHLOROBENZENE	400	BQL
21	1,3-DICHLOROBENZENE	400	BQL
22	1,4-DICHLOROBENZENE	400	BQL
23	3,3'-DICHLOROBENZIDINE	400	BQL
24	DIETHYL PHTHALATE	400	BQL
25	DIMETHYL PHTHALATE	400	BQL
26	DI-N-BUTYL PHTHALATE	400	BQL
27	2,4-DINITROTOLUENE	400	BQL
28	2,6-DINITROTOLUENE	400	BQL
29	DI-N-OCTYL PHTHALATE	400	BQL
30	FLUORANTHENE	400	BQL
31	FLUORENE	400	BQL
32	HEXACHLOROBENZENE	400	BQL
33	HEXACHLOROBUTADIENE	400	BQL
34	HEXACHLOROCYCLOPENTADIENE	400	BQL
35	HEXACHLOROETHANE	400	BQL
36	INDENO (1,2,3-cd) PYRENE	1000	BQL
37	ISOPHORONE	400	BQL
38	NAPHTHALENE	400	BQL
39	NITROBENZENE	400	BQL
40	N-NITROSODIMETHYLAMINE	400	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BQL
42	N-NITROSODIPHENYLAMINE	400	BQL
43	PHENANTHRENE	400	BQL
44	PYRENE	400	BQL
45	1,2,4-TRICHLOROBENZENE	400	BQL

Comments BQL - BELOW QUANTITATION LIMIT

2

IEA Sample No. 103132 3

Sample Identification 0754

Date Extracted April 24, 1987

Date Analyzed May 11, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

µg/Kg

µg/Kg

1	ACENAPHTHENE	1000	BQL
2	ACENAPHTHYLENE	400	BQL
3	ANTHRACENE	400	BQL
4	BENZIDINE	400	BQL
5	BENZO (a) ANTHRACENE	400	BQL
6	BENZO (a) PYRENE	400	BQL
7	BENZO (b) FLUORANTHENE	400	BQL
8	BENZO (ghi) PERYLENE	1000	BQL
9	BENZO (k) FLUORANTHENE	400	BQL
10	BIS (2-CHLOROETHOXY) METHANE	400	BQL
11	BIS (2-CHLOROETHYL) ETHER	400	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	940
14	4-BROMOPHENYL PHENYL ETHER	400	BQL
15	BENZYL BUTYL PHTHALATE	400	BQL
16	2-CHLORONAPHTHALENE	400	BQL
17	4-CHLOROPHENYL PHENYL ETHER	400	BQL
18	CHRYSENE	400	BQL
19	DIBENZO (a,h) ANTHRACENE	400	BQL
20	1,2-DICHLOROBENZENE	400	BQL
21	1,3-DICHLOROBENZENE	400	BQL
22	1,4-DICHLOROBENZENE	400	BQL
23	3,3'-DICHLOROBENZIDINE	400	BQL
24	DIETHYL PHTHALATE	400	BQL
25	DIMETHYL PHTHALATE	400	BQL
26	DI-N-BUTYL PHTHALATE	400	BQL
27	2,4-DINITROTOLUENE	400	BQL
28	2,6-DINITROTOLUENE	400	BQL
29	DI-N-OCTYL PHTHALATE	400	BQL
30	FLUORANTHENE	400	BQL
31	FLUORENE	400	BQL
32	HEXACHLOROBENZENE	400	BQL
33	HEXACHLOROBUTADIENE	400	BQL
34	HEXACHLOROCYCLOPENTADIENE	400	BQL
35	HEXACHLOROETHANE	400	BQL
36	INDENO (1,2,3-cd) PYRENE	1000	BQL
37	ISOPHORONE	400	BQL
38	NAPHTHALENE	400	BQL
39	NITROBENZENE	400	BQL
40	N-NITROSODIMETHYLAMINE	400	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BQL
42	N-NITROSODIPHENYLAMINE	400	BQL
43	PHENANTHRENE	400	BQL
44	PYRENE	400	BQL
45	1,2,4-TRICHLOROBENZENE	400	BQL

IEA REPORT NO. 103-133

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 3

Sample Identification 0660

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 4

Sample Identification 0661

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 03133 7

Sample Identification 0664

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/l</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 8

Sample Identification 0665

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 9

Sample Identification 0672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625A

Acid Extractables

IEA Sample No. 103133 10

Sample Identification 6075

Date Extracted April 16, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHTHAL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 6

Sample Identification 0681

Date Extracted April 16, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 1

Sample Identification 0709

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 2

Sample Identification 0710

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u> <u>ug/L</u>	<u>Results</u> <u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 3

Sample Identification 0660

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 4

Sample Identification 0661

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 3

Sample Identification 0660

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	18
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 4
Date Extracted April 15, 1987Sample Identification 0661
Date Analyzed May 14, 1987
By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 7

Sample Identification 0664

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	34
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 8
Date Extracted April 16, 1987Sample Identification 0665
Date Analyzed May 15, 1987
By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLORODISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	35
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 7

Sample Identification 0664

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 8

Sample Identification 0665

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 9

Sample Identification Q672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 10

Sample Identification 0673

Date Extracted April 16, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 6

Sample Identification 0681

Date Extracted April 16, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 1

Sample Identification 0709

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 2

Sample Identification 0710

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1253	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Quantitation Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 1

Sample Identification 0709

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLORDISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 2Sample Identification 0710Date Extracted April 15, 1987Date Analyzed May 14, 1987By Griffin

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYLPHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 5

Sample Identification 0680

Date Extracted April 15, 1987

Date Analyzed May 14, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PERYLENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 6Sample Identification 0681Date Extracted April 16, 1987Date Analyzed May 14, 1987By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLORDISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 9

Sample Identification 0672

Date Extracted April 16, 1987

Date Analyzed May 15, 1987

By Griffin

(122)2 2
5-002 NO. F.

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 10Sample Identification 0673Date Extracted April 16, 1987Date Analyzed May 18, 1987By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUDRENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 11

Sample Identification 0736

Date Extracted April 17, 1987

Date Analyzed May 14, 1987

By King

GC/MS Base/Neutral Extractables

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYLPHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 12

Sample Identification 0737

Date Extracted April 17, 1987

Date Analyzed May 15, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,b) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103133 13

Sample Identification 0740

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLORODISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103133 14

Sample Identification 0741

Date Extracted April 17, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (qm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

IEA REPORT NO.: 103-134

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 4

Sample Identification Q714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 3

Sample Identification Q720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 6

Sample Identification 0723

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments: BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103134 1

Sample Identification 0732

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Quantitation Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	26
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 4

Sample Identification 0714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	25
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUDRENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gM) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 3

Sample Identification 0720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103134 6
Date Extracted April 22, 1987Sample Identification 0723
Date Analyzed May 12, 1987
By King

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYLPHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	48
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	38
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103134 1Sample Identification 0732Date Extracted April 22, 1987Date Analyzed May 12, 1987By Daniels

GC/MS Base/Neutral Extractables

Number	Compound	Quantitation Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLORDISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

62SP

GC/MS PCB/Pesticides

IEA Sample No. 103134 5

Sample Identification 0713

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 4

Sample Identification 0714

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Leto - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 2

Sample Identification 0719

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 3

Sample Identification 0720

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Quantitation Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 6

Sample Identification 0723

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6251

GC/MS PCB/Pesticides

IEA Sample No. 103134 7

Sample Identification 0724

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103134 1

Sample Identification 0732

Date Extracted April 22, 1987

Date Analyzed May 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1010	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

IEA REPORT NO.: 103-136

X-218

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 5

Sample Identification 0684

Date Extracted April 23, 1987

Date Analyzed May 20, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample no. 100100 2

Sample Identification Q685

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

Sample No. 103136 3

Sample Identification 0688

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 4

Sample Identification 0689

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

SEA Sample No. 103136 7

Sample Identification 0692

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

EA Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103136 2

Sample Identification 0697

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 5 Sample Identification 0684

Date Extracted April 23, 1987 Date Analyzed May 20, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BNIEA Sample No. 103136 6Sample Identification 0685Date Extracted April 23, 1987Date Analyzed May 19, 1987By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROCYCLOPENTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

X-228 10

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 3 Sample Identification 0688

Date Extracted April 23, 1987 Date Analyzed May 18, 1987

By Daniels

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	X-229 10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 4Sample Identification 0689Date Extracted April 23, 1987Date Analyzed May 18, 1987By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments RNI - REFINED QUANTITATION LIMIT

625BN

IEA Sample No. 103136 7

Sample Identification 0692

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	21
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gh) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103136 2Sample Identification 0697Date Extracted April 23, 1987Date Analyzed May 18, 1987By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (gm) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSDI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 5

Sample Identification 0684

Date Extracted April 23, 1987

Date Analyzed May 20, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 6

Sample Identification 0685

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 3

Sample Identification 0688

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments **BQL - BELOW QUANTITATION LIMIT**

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 4

Sample Identification 0689

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 7

Sample Identification 0602

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 8

Sample Identification 0693

Date Extracted April 23, 1987

Date Analyzed May 19, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GL/115 PCB/Pesticides

IEA Sample No. 103136 1

Sample Identification 0696

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103136 2

Sample Identification 0697

Date Extracted April 23, 1987

Date Analyzed May 18, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

IEA REPORT NO.: 103-137

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 0

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 7

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 1

Sample Identification 0700

Date Extracted April 28, 1987

Date Analyzed May 28, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 20, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 3

Sample Identification Q706

Date Extracted April 28, 1987

Date Analyzed May 22, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

62500 QUANTITATION LIMIT

62500

Acid Extractables

IEA Sample No. 103137 4

Sample Identification 0707

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

Number	Compound	Quantitation Limit	Results
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-2-METHYLDIPHENYL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	25	BQL
6	2-METHYL-4,6-DINITROPHENOL	25	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 8

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

GC/MS Base/Neutral Extractables

Number	Compound	Quantitation Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	25
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	11
30	FLUORANTHENE	10	BQL
31	FLUDRENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 7

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables		Quantitation Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-UNDECYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103137 1Sample Identification 0700Date Extracted April 28, 1987Date Analyzed May 28, 1987By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>µg/L</u>	<u>µg/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6258N

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	10
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYLPHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 3Sample Identification 0706Date Extracted April 28, 1987Date Analyzed May 29, 1987By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUDRENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 4 Sample Identification 0707

Date Extracted April 28, 1987 Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Quantitation Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	14
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQ'
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	18
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BNI - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number

Compound

ug/L

ug/L

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BNI
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	43
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	38
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITroso-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	26
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	20
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625BN

IEA Sample No. 103137 5 Sample Identification 0735

Date Extracted April 28, 1987 Date Analyzed May 29, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Quantitation Limit	Concentration
		<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	26
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	20
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYL PHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

6256N

IEA Sample No. 103137 6Sample Identification 0771Date Extracted April 28, 1987Date Analyzed May 29, 1987By King

GC/MS Base/Neutral Extractables

Quantitation Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BQL
2	ACENAPHTHYLENE	10	BQL
3	ANTHRACENE	10	BQL
4	BENZIDINE	10	BQL
5	BENZO (a) ANTHRACENE	10	BQL
6	BENZO (a) PYRENE	10	BQL
7	BENZO (b) FLUORANTHENE	10	BQL
8	BENZO (ghi) PERYLENE	25	BQL
9	BENZO (k) FLUORANTHENE	10	BQL
10	BIS (2-CHLOROETHOXY) METHANE	10	BQL
11	BIS (2-CHLOROETHYL) ETHER	10	BQL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BQL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BQL
14	4-BROMOPHENYL PHENYL ETHER	10	BQL
15	BENZYL BUTYL PHTHALATE	10	BQL
16	2-CHLORONAPHTHALENE	10	BQL
17	4-CHLOROPHENYL PHENYL ETHER	10	BQL
18	CHRYSENE	10	BQL
19	DIBENZO (a,h) ANTHRACENE	10	BQL
20	1,2-DICHLOROBENZENE	10	BQL
21	1,3-DICHLOROBENZENE	10	BQL
22	1,4-DICHLOROBENZENE	10	BQL
23	3,3'-DICHLOROBENZIDINE	10	BQL
24	DIETHYL PHTHALATE	10	BQL
25	DIMETHYL PHTHALATE	10	BQL
26	DI-N-BUTYL PHTHALATE	10	BQL
27	2,4-DINITROTOLUENE	10	BQL
28	2,6-DINITROTOLUENE	10	BQL
29	DI-N-OCTYLPHTHALATE	10	BQL
30	FLUORANTHENE	10	BQL
31	FLUORENE	10	BQL
32	HEXACHLOROBENZENE	10	BQL
33	HEXACHLOROBUTADIENE	10	BQL
34	HEXACHLOROCYCLOPENTADIENE	10	BQL
35	HEXACHLOROETHANE	10	BQL
36	INDENO (1,2,3-cd) PYRENE	25	BQL
37	ISOPHORONE	10	BQL
38	NAPHTHALENE	10	BQL
39	NITROBENZENE	10	BQL
40	N-NITROSODIMETHYLAMINE	10	BQL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BQL
42	N-NITROSODIPHENYLAMINE	10	BQL
43	PHENANTHRENE	10	BQL
44	PYRENE	10	BQL
45	1,2,4-TRICHLOROBENZENE	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 8

Sample Identification 0668

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDE	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 ?

Sample Identification 0669

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TULOSIFEN	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1250	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 1

Sample Identification 0700

Date Extracted April 28, 1987

Date Analyzed May 28, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 2

Sample Identification 0701

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDO	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1032	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 3

Sample Identification Q706

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 4

Sample Identification 0707

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLOROMEL	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 10

Sample Identification 0727

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	ALDRIN	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 11

Sample Identification 0728

Date Extracted April 28, 1987

Date Analyzed May 30, 1987

By Griffin

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHEN	10	BQL
19	PCB 105	10	BQL
20	PCB 121	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 9

Sample Identification 0733

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN ...	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 5

Sample Identification 0735

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDE	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDODULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103137 6

Sample Identification 0771

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

Number	Compound	Quantitation Limit	Results
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BQL
2	Alpha - BHC	10	BQL
3	Beta - BHC	10	BQL
4	Delta - BHC	10	BQL
5	Gamma - BHC	10	BQL
6	CHLORDANE	10	BQL
7	4,4'-DDD	10	BQL
8	4,4'-DDE	10	BQL
9	4,4'-DDT	10	BQL
10	DIELDRIN	10	BQL
11	ENDOSULFAN I	10	BQL
12	ENDOSULFAN II	10	BQL
13	ENDOSULFAN SULFATE	10	BQL
14	ENDRIN	10	BQL
15	ENDRIN ALDEHYDE	10	BQL
16	HEPTACHLOR	10	BQL
17	HEPTACHLOR EPOXIDE	10	BQL
18	TOXAPHENE	10	BQL
19	PCB 1016	10	BQL
20	PCB 1221	10	BQL
21	PCB 1232	10	BQL
22	PCB 1242	10	BQL
23	PCB 1248	10	BQL
24	PCB 1254	10	BQL
25	PCB 1260	10	BQL

APPENDIX Y

REPORTED ORGANIC LABORATORY RESULTS

INVALID DATA

Note: Data reported in Appendix Y are regarded as invalid on the basis of exceeded holding times or lack of confirmation by second-column confirmation. Refer to Section 4 of the report (Vol. 1) for additional information.

IEA REPORT DATE: JANUARY 15, 1987

IEA REPORT NO.: 103-105

January 15, 1987
 IEA Report No. 103-105

	Detection Limit	SB-56 0-2'B	SB-56 3-5'B	SB-56 8-10'B	SB-56 13-15'B	SB-56 15-18'B	SB-57 0-2'B	SB-57 2-4'B
Diethyl Ether	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Disulfide	100	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MEK	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MIBK	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrylamide	10	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Paraldehyde	100	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL: Below Detection Limit

January 15, 1987
 IEA Report No. 103-105

	Detection Limit	SB-57 4-6'B	SB-57 9-11'B	SB-57 11-13'B	SB-55 1-3'B	SB-55 3-5'B	SB-55 9-11'B	SB-55 11-13'B
Diethyl Ether	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Disulfide	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MEK	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MIBK	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Acrylamide	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Paraldehyde	µg/Kg	BDL	BDL	BDL	BDL	BDL	BDL	BDL

BDL: Below Detection Limit

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11'B

Date Extracted November 25, 1986

Date Analyzed January 9, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 1

Sample Identification SB-56, D-2'B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	10,000	BDL
2	2-CHLOROPHENOL	10,000	BDL
3	2,4-DICHLOROPHENOL	10,000	BDL
4	2,4-DIMETHYLPHENOL	10,000	BDL
5	2,4-DINITROPHENOL	100,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	100,000	BDL
7	2-NITROPHENOL	10,000	BDL
8	4-NITROPHENOL	10,000	BDL
9	PENTACHLOROPHENOL	10,000	BDL
10	PHENOL	10,000	BDL
11	2,4,6-TRICHLOROPHENOL	10,000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 7

Sample Identification SB-57, 2-4' B

Date Extracted November 24, 1986

Date Analyzed January 12, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
			<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	20,000	BDL
2	2-CHLOROPHENOL	20,000	BDL
3	2,4-DICHLOROPHENOL	20,000	BDL
4	2,4-DIMETHYLPHENOL	20,000	BDL
5	2,4-DINITROPHENOL	200,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	200,000	BDL
7	2-NITROPHENOL	20,000	BDL
8	4-NITROPHENOL	20,000	BDL
9	PENTACHLOROPHENOL	20,000	BDL
10	PHENOL	20,000	BDL
11	2,4,6-TRICHLOROPHENOL	20,000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 8

Sample Identification SB-57, 4-6' B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 9

Sample Identification SB-57, 9-11' B

Date Extracted November 25, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	4-CHLORO-3-METHYLPHENOL	1000	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103105 10

Sample Identification SB-57,11-13'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	1000 ug/Kg	BDL
2	2-CHLOROPHENOL	1000	BDL
3	2,4-DICHLOROPHENOL	1000	BDL
4	2,4-DIMETHYLPHENOL	1000	BDL
5	2,4-DINITROPHENOL	10,000	BDL
6	2-METHYL-4,6-DINITROPHENOL	10,000	BDL
7	2-NITROPHENOL	1000	BDL
8	4-NITROPHENOL	1000	BDL
9	PENTACHLOROPHENOL	1000	BDL
10	PHENOL	1000	BDL
11	2,4,6-TRICHLOROPHENOL	1000	BDL

Comments	BDL - BELOW DETECTION LIMIT		
	Method 8020.		
<u>602</u>	Detection Limit	Concentration	
	Xylenes	1.0	26

Purgeable Aromatics

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	18
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Method 8020.

BDL

	Detection Limit	Concentration
Xylenes	1.0	BDL

Purgeable Aromatics

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11'B

Date Analyzed November 20, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	Benzene	1.0	2.0
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments	BDL - BELOW DETECTION LIMIT	
	Method 8020.	
	<u>602</u>	
	Detection Limit	Concentration
	Xylenes 1.0	BDL

Purgeable Aromatics

IEA Sample No. 103105 6
 Sample Identification SB-57, 0-2' B
 Date Analyzed November 19, 1986 By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	1.8
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 1

Sample Identification SB-56, 0-2'B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
1	ALDRIN	ug/kg 4000	BDL
2	Alpha - BHC	4000	BDL
3	Beta - BHC	4000	BDL
4	Delta - BHC	4000	BDL
5	Gamma - BHC	4000	BDL
6	CHLORDANE	4000	BDL
7	4,4 - DDD	4000	BDL
8	4,4' - DDE	4000	BDL
9	4,4' - DDT	4000	BDL
10	DIELDRIN	4000	BDL
11	ENDOSULFAN I	4000	BDL
12	ENDOSULFAN II	4000	BDL
13	ENDOSULFAN SULFATE	4000	BDL
14	ENDRIN	4000	BDL
15	ENDRIN ALDEHYDE	4000	BDL
16	HEPTACHLOR	4000	BDL
17	HEPTACHLOR EPOXIDE	4000	BDL
18	TOXAPHENE	4000	BDL
19	PCB 1016	4000	BDL
20	PCB 1221	4000	BDL
21	PCB 1232	4000	BDL
22	PCB 1242	4000	BDL
23	PCB 1248	4000	BDL
24	PCB 1254	4000	BDL
25	PCB 1260	4000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 11

Sample Identification SB-55, 1-3'B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDOSULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 12

Sample Identification SB-55, 3-5' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDOSULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103105 13

Sample Identification SB-55, 9-11' B

Date Extracted November 25, 1986

Date Analyzed January 9, 1987

By Harris

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/Kg</u>	<u>ug/Kg</u>
1	ALDRIN	400	BDL
2	Alpha - BHC	400	BDL
3	Beta - BHC	400	BDL
4	Delta - BHC	400	BDL
5	Gamma - BHC	400	BDL
6	CHLORDANE	400	BDL
7	4,4'-DDD	400	BDL
8	4,4'-DDE	400	BDL
9	4,4'-DDT	400	BDL
10	DIELDRIN	400	BDL
11	ENDOSULFAN I	400	BDL
12	ENDOSULFAN II	400	BDL
13	ENDOSULFAN SULFATE	400	BDL
14	ENDRIN	400	BDL
15	ENDRIN ALDEHYDE	400	BDL
16	HEPTACHLOR	400	BDL
17	HEPTACHLOR EPOXIDE	400	BDL
18	TOXAPHENE	400	BDL
19	PCB 1016	400	BDL
20	PCB 1221	400	BDL
21	PCB 1232	400	BDL
22	PCB 1242	400	BDL
23	PCB 1248	400	BDL
24	PCB 1254	400	BDL
25	PCB 1260	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 11 Sample Identification SB-55, 1-3 B

Date Extracted November 25, 1986 Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	1000
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITroso-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103105 12 Sample Identification SB-55, 3-5' BDate Extracted November 25, 1986 Date Analyzed January 8, 1987By King

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	420
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYLPHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSO-PHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BNIEA Sample No. 103105 13 Sample Identification SB-55, 9-11'BDate Extracted November 25, 1986 Date Analyzed January 9, 1987By Harris**GS/MS Base/Neutral Extractables**

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u> ug/Kg	<u>Concentration</u> ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDEN (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 14

Sample Identification SB-55, 11-13' B

Date Extracted November 25, 1986

Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	440
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	1300
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	---
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 1

Sample Identification 88-56, 0-2 B

Date Extracted November 24, 1986

Date Analyzed January 5, 1987

By Harris

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/Kg	ug/Kg
1	ACENAPHTHENE	10,000	BDL
2	ACENAPHTHYLENE	4000	BDL
3	ANTHRACENE	4000	BDL
4	BENZIDINE	4000	BDL
5	BENZO (a) ANTHRACENE	4000	BDL
6	BENZO (a) PYRENE	4000	BDL
7	BENZO (b) FLUORANTHENE	4000	BDL
8	BENZO (ghi) PERYLENE	10,000	BDL
9	BENZO (k) FLUORANTHENE	4000	BDL
10	BIS (2-CHLOROETHOXY) METHANE	4000	BDL
11	BIS (2-CHLOROETHYL) ETHER	4000	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	4000	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	4000	BDL
14	4-BROMOPHENYL PHENYL ETHER	4000	BDL
15	BENZYL BUTYL PHTHALATE	4000	BDL
16	2-CHLORONAPHTHALENE	4000	BDL
17	4-CHLOROPHENYL PHENYL ETHER	4000	BDL
18	CHRYSENE	4000	BDL
19	DIBENZO (a,h) ANTHRACENE	4000	BDL
20	1,2-DICHLOROBENZENE	4000	BDL
21	1,3-DICHLOROBENZENE	4000	BDL
22	1,4-DICHLOROBENZENE	4000	BDL
23	3,3'-DICHLOROBENZIDINE	4000	BDL
24	DIETHYL PHTHALATE	4000	BDL
25	DIMETHYL PHTHALATE	4000	BDL
26	DI-N-BUTYL PHTHALATE	4000	BDL
27	2,4-DINITROTOLUENE	4000	BDL
28	2,6-DINITROTOLUENE	4000	BDL
29	DI-N-OCTYL PHTHALATE	4000	BDL
30	FLUORANTHENE	4000	BDL
31	FLUORENE	4000	BDL
32	HEXACHLOROBENZENE	4000	BDL
33	HEXACHLOROBUTADIENE	4000	BDL
34	HEXACHLOROCYCLOPENTADIENE	4000	BDL
35	HEXACHLOROETHANE	4000	BDL
36	INDENO (1,2,3-cd) PYRENE	10,000	BDL
37	ISOPHORONE	4000	BDL
38	NAPHTHALENE	4000	BDL
39	NITROBENZENE	4000	BDL
40	N-NITROSODIMETHYLAMINE	4000	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	4000	BDL
42	N-NITROSODIPHENYLAMINE	4000	BDL
43	PHENANTHRENE	4000	BDL
44	PYRENE	4000	BDL
45	1,2,4-TRICHLOROBENZENE	4000	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 7 Sample Identification SB-57, 2-4 B

Date Extracted November 24, 1986 Date Analyzed January 12, 1987

By Daniels

GS/MS Base/Neutral Extractables

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u> ug/Kg	<u>Concentration</u> ug/Kg
1	ACENAPHTHENE	20,000	BDL
2	ACENAPHTHYLENE	8000	BDL
3	ANTHRACENE	8000	BDL
4	BENZIDINE	8000	BDL
5	BENZO (a) ANTHRACENE	8000	BDL
6	BENZO (a) PYRENE	8000	BDL
7	BENZO (b) FLUORANTHENE	8000	BDL
8	BENZO (ghi) PERYLENE	20,000	BDL
9	BENZO (k) FLUORANTHENE	8000	BDL
10	BIS (2-CHLOROETHOXY) METHANE	8000	BDL
11	BIS (2-CHLOROETHYL) ETHER	8000	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	8000	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	8000	BDL
14	4-BROMOPHENYL PHENYL ETHER	8000	BDL
15	BENZYL BUTYL PHTHALATE	8000	BDL
16	2-CHLORONAPHTHALENE	8000	BDL
17	4-CHLOROPHENYL PHENYL ETHER	8000	BDL
18	CHRYSENE	8000	BDL
19	DIBENZO (a,h) ANTHRACENE	8000	BDL
20	1,2-DICHLOROBENZENE	8000	BDL
21	1,3-DICHLOROBENZENE	8000	BDL
22	1,4-DICHLOROBENZENE	8000	BDL
23	3,3'-DICHLOROBENZIDINE	8000	BDL
24	DIETHYL PHTHALATE	8000	BDL
25	DIMETHYL PHTHALATE	8000	BDL
26	DI-N-BUTYL PHTHALATE	8000	BDL
27	2,4-DINITROTOLUENE	8000	BDL
28	2,6-DINITROTOLUENE	8000	BDL
29	DI-N-OCTYL PHTHALATE	8000	BDL
30	FLUORANTHENE	8000	11,000
31	FLUORENE	8000	BDL
32	HEXACHLOROBENZENE	8000	BDL
33	HEXACHLOROBUTADIENE	8000	BDL
34	HEXACHLOROCYCLOPENTADIENE	8000	BDL
35	HEXACHLOROETHANE	8000	BDL
36	INDENO (1,2,3-cd) PYRENE	20,000	BDL
37	ISOPHORONE	8000	BDL
38	NAPHTHALENE	8000	BDL
39	NITROBENZENE	8000	BDL
40	N-NITROSODIMETHYLAMINE	8000	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	8000	BDL
42	N-NITROSODIPHENYLAMINE	8000	BDL
43	PHENANTHRENE	8000	BDL
44	PYRENE	8000	10,000
45	1,2,4-TRICHLOROBENZENE	8000	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BNIEA Sample No. 103105 8Sample Identification SB-57, 4-6 BDate Extracted November 24, 1986Date Analyzed January 5, 1987By Harris

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

Number

Compound

ug/Kg

ug/Kg

Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	1500
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	1500
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 9 Sample Identification SB-37, 9-1118

Date Extracted November 25, 1986 Date Analyzed January 5, 1987

By Harris

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	BDL
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103105 10 Sample Identification SB-57, 11-13 B

Date Extracted November 25, 1986 Date Analyzed January 8, 1987

By King

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/Kg	ug/Kg
1	ACENAPHTHENE	1000	BDL
2	ACENAPHTHYLENE	400	BDL
3	ANTHRACENE	400	BDL
4	BENZIDINE	400	BDL
5	BENZO (a) ANTHRACENE	400	BDL
6	BENZO (a) PYRENE	400	BDL
7	BENZO (b) FLUORANTHENE	400	BDL
8	BENZO (ghi) PERYLENE	1000	BDL
9	BENZO (k) FLUORANTHENE	400	BDL
10	BIS (2-CHLOROETHOXY) METHANE	400	BDL
11	BIS (2-CHLOROETHYL) ETHER	400	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	400	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	400	BDL
14	4-BROMOPHENYL PHENYL ETHER	400	BDL
15	BENZYL BUTYL PHTHALATE	400	BDL
16	2-CHLORONAPHTHALENE	400	BDL
17	4-CHLOROPHENYL PHENYL ETHER	400	BDL
18	CHRYSENE	400	BDL
19	DIBENZO (a,h) ANTHRACENE	400	BDL
20	1,2-DICHLOROBENZENE	400	BDL
21	1,3-DICHLOROBENZENE	400	BDL
22	1,4-DICHLOROBENZENE	400	BDL
23	3,3'-DICHLOROBENZIDINE	400	BDL
24	DIETHYL PHTHALATE	400	BDL
25	DIMETHYL PHTHALATE	400	BDL
26	DI-N-BUTYL PHTHALATE	400	530
27	2,4-DINITROTOLUENE	400	BDL
28	2,6-DINITROTOLUENE	400	BDL
29	DI-N-OCTYL PHTHALATE	400	BDL
30	FLUORANTHENE	400	BDL
31	FLUORENE	400	BDL
32	HEXACHLOROBENZENE	400	BDL
33	HEXACHLOROBUTADIENE	400	BDL
34	HEXACHLOROCYCLOPENTADIENE	400	BDL
35	HEXACHLOROETHANE	400	BDL
36	INDENO (1,2,3-cd) PYRENE	1000	BDL
37	ISOPHORONE	400	BDL
38	NAPHTHALENE	400	BDL
39	NITROBENZENE	400	BDL
40	N-NITROSODIMETHYLAMINE	400	BDL
41	N-NITroso-DI-N-PROPYLAMINE	400	BDL
42	N-NITROSODIPHENYLAMINE	400	BDL
43	PHENANTHRENE	400	BDL
44	PYRENE	400	BDL
45	1,2,4-TRICHLOROBENZENE	400	BDL

IEA REPORT DATE: JANUARY 26, 1987

IEA REPORT NO.: 103-107
103-108
103-109
103-110



Industrial & Environmental Analysts, Inc.
 P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

Reference: IEA Report No. 103-107

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on thirteen samples submitted to our laboratory on January 9, 1987.

		<u>Tag</u> <u>0091</u>	<u>Tag</u> <u>0097</u>	<u>Tag</u> <u>0111</u>
Petroleum				
Hydrocarbons	mg/L	<2.0	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
 Joseph B. Adamovic
 Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROGEOLOGY CENTER

Y-29
 Offices and laboratories located in:
 Essex Junction, Vermont
 Research Triangle Park, North Carolina

Comments: BCL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103107 7

Sample Identification 0103

Date Extracted January 18, 1967

Date Analyzed January 19, 1967

By Gamels

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	15	BCL
2	2-CHLOROPHENOL	15	BCL
3	2,4-DICHLOROPHENOL	15	BCL
4	2,4-DIMETHYLPHENOL	15	BCL
5	2,4-DINITROPHENOL	15	BCL
6	2-METHYL-4,6-DINITROPHENOL	150	BCL
7	2-NITROPHENOL	15	BCL
8	4-NITROPHENOL	15	BCL
9	PENTACHLOROPHENOL	15	BCL
10	PHENOL	15	BCL
11	2,4,6-TRICHLOROPHENOL	15	BCL

Comments: BDL - BELOW DETECTION LIMIT

825A

Acid Extractables

IEA Sample No. 108107 12

Sample Identification 0113

Date Extracted January 16, 1967

Date Analyzed January 19, 1967

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	0.01	BDL
2	2-CHLOROPHENOL	0.01	BDL
3	2,4-DICHLOROPHENOL	0.01	BDL
4	2,4-DIMETHYLPHENOL	0.01	BDL
5	3,4-DINITROPHENOL	0.01	BDL
6	2-METHYL-4,6-DINITROPHENOL	0.01	BDL
7	2-NITROPHENOL	0.01	BDL
8	4-NITROPHENOL	0.01	BDL
9	PENTACHLOROPHENOL	0.01	BDL
10	PHENOL	0.01	BDL
11	2,4,5-TRICHLOROPHENOL	0.01	BDL

Comments: EDL - BELOW DETECTION LIMIT

EDL

Purgeable Aromatics

IEA Sample No. 103107 1

Sample Identification Tag 0080

Date Analyzed January 16, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	10	EDL
2	Chlorobenzene	10	EDL
3	1,2-Dichlorobenzene	10	EDL
4	1,3-Dichlorobenzene	10	EDL
5	1,4-Dichlorobenzene	10	EDL
6	Ethylbenzene	10	EDL
7	Toluene	10	EDL

Comments: BDL - BELOW DETECTION LIMIT

BDL

Purgeable Aromatics

IEA Sample No. 103107 4

Sample Identification Tag 0093

Date Analyzed January 16, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
1	Benzene	<u>BDL</u>	<u>BDL</u>
2	Chlorobenzene	<u>BDL</u>	<u>BDL</u>
3	1,2-Dichlorobenzene	<u>BDL</u>	<u>BDL</u>
4	1,3-Dichlorobenzene	<u>BDL</u>	<u>BDL</u>
5	1,4-Dichlorobenzene	<u>BDL</u>	<u>BDL</u>
6	Ethylbenzene	<u>BDL</u>	<u>BDL</u>
7	Toluene	<u>BDL</u>	<u>BDL</u>

Comments: BDL - BELOW DETECTION LIMIT

BDL

Purgeable Aromatics

IEA Sample No. 103107 9

Sample Identification Tag 0107

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	Benzene	10	BDL
2	Chlorobenzene	10	BDL
3	1,2-Dichlorobenzene	10	BDL
4	1,3-Dichlorobenzene	10	BDL
5	1,4-Dichlorobenzene	10	BDL
6	Ethylbenzene	10	BDL
7	Toluene	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103107 8

Sample Identification 0104

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDODULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103107 13

Sample Identification 0114

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDODULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103107 8

Sample Identification 0104

Date Extracted January 16, 1987

Date Analyzed January 19, 1987

By Daniels

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103107 13 Sample Identification 0114
Date Extracted January 16, 1987 Date Analyzed January 15, 1987
By Daniels

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL



Industrial & Environmental Analysts, Inc.
 P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

January 26, 1987

Mr. Joe Alexander
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

Reference: IEA Report No. 103-108

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on fourteen samples submitted to our laboratory on January 9, 1987.

		<u>Tag</u> <u>0121</u>	<u>Tag</u> * <u>0127</u>	<u>Tag</u> * <u>0133</u>	<u>Tag</u> * <u>0139</u>
Petroleum					
Hydrocarbons	mg/L	<2.0	<2.0	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

* Invalid Data

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
 Senior Chemist

JBA/jcl

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103108 13

Sample Identification 0141

Date Extracted January 17, 1987

Date Analyzed January 19, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 1

Sample Identification Tag Q117

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 4

Sample Identification Tag 0123

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	8.6
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	2.3

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103108 7

Sample Identification Tag 0127

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

FILE COPY

Comments: BDL - BELOW DETECTION LIMIT
ADD : REVISED

Purgeable Aromatics

IEA Sample No. 103108 7
Sample Identification Tag 0129
Date Analyzed January 16, 1987 By Corwell

<u>number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
1	Benzene	BDL	BDL
2	Chlorobenzene	BDL	BDL
3	1,2-Dichlorobenzene	BDL	BDL
4	1,3-Dichlorobenzene	BDL	BDL
5	1,4-Dichlorobenzene	BDL	BDL
6	Ethylbenzene	BDL	BDL
7	Toluene	BDL	BDL

RECEIVED

FEB 11 1987

HYDROGEOLOGY DEPARTMENT

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103108 5

Sample Identification Tag 0124

Date Analyzed January 16, 1987

By Cornweil

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	8.6
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103108 14

Sample Identification Q142

Date Extracted January 17, 1987

Date Analyzed January 19, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDODULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103108 14 Sample Identification 0142
Date Extracted January 17, 1987 Date Analyzed January 19, 1987
By Daniels

GS/MS Base/Neutral Extractables

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLORDETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

FILE COPY



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-109

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 9, 1987.

		Tag <u>0149</u>	Tag <u>0159</u>
Petroleum			
Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Y-48
Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103109 4

Sample Identification 0151

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Deniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103109 9

Sample Identification 0161

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103109 1

Sample Identification Tag 0145

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103109 6

Sample Identification Tag 0155

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103109 2

Sample Identification Tag 0146

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	7.8
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103109 7

Sample Identification Tag D156

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	7.6
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	1.3

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103109 5

Sample Identification 0152

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103109 10

Sample Identification 0162

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103109 5 Sample Identification 0152
Date Extracted January 17, 1987 Date Analyzed January 22, 1987
By Daniels

GS/MS Base/Neutrol Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103109 10

Sample Identification 0162

Date Extracted January 17, 1987

Date Analyzed January 20, 1987

By King

GS/MS Base/Neutral Extractables

Detection Limit

Concentration

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 26, 1987

Mr. Joe Alexander
Research Triangle Institute
P. O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-110

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 9, 1987.

		<u>Tag</u> <u>0169</u>	<u>Tag</u> <u>0321</u>
Petroleum			
Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

JAN 27 1987

HYDROCARBON ANALYSIS

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103110 4

Sample Identification Q171

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103110 9

Sample Identification 0227

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103110 1

Sample Identification Tag 0165

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	1.6
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103110 6

Sample Identification Tag 0235

Date Analyzed January 20, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	Benzene	1.0	1.5
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103110 2

Sample Identification Tag 0166

Date Analyzed January 16, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	1.2
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethane	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103110 7

Sample Identification Tag 0226

Date Analyzed January 20, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	3.2
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	1.4

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103110 5

Sample Identification 0172

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDODULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103110 10

Sample Identification 0228

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments **BDL - BELOW DETECTION LIMIT**

625BN

IEA Sample No. 103110 5

Sample Identification 0172

Date Extracted January 17, 1987

Date Analyzed January 22, 1987

By Daniels

GS/MS Base/Neutral Extractables

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u> <u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROBIOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103110 10 Sample Identification 0228
Date Extracted January 17, 1987 Date Analyzed January 22, 1987
By Daniels

GS/MS Base/Neutral Extractables		Detection Limit	Concentration
Number	Compound	ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

IEA REPORT DATE: JANUARY 29, 1987

IEA REPORT NO.: 103-111
103-112



Industrial & Environmental Analysts, Inc.
 P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 29, 1987

Mr. Joe Alexander
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

Reference: IEA Report No. 103-111

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> <u>0206</u>	<u>Tag</u> <u>0210</u>
Petroleum			
Hydrocarbon	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
 Joseph B. Adamovic
 Senior Chemist

JBA/jcl

RECEIVED

FEB 2 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Y-71
 Essex Junction, Vermont
 Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103111 5

Sample Identification 0204

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103111 10

Sample Identification 0214

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103111 1

Sample Identification Tag D196

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103111 6

Sample Identification Tag 0207

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103111 2

Sample Identification Tag 0197

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103111 7Sample Identification Tag 0208Date Analyzed January 20, 1987By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	1.1
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103111 4

Sample Identification Q203

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103111 9

Sample Identification Q212

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1015	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6252N

IEA Sample No. 103111 4

Sample Identification 0203

Date Extracted January 22, 1987

Date Analyzed January 27, 1987

By Daniels

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BNIEA Sample No. 103111 9Sample Identification 0212Date Extracted January 22, 1987Date Analyzed January 27, 1987By Daniels**GS/MS Base/Neutral Extractables**Detection LimitConcentrationNumberCompoundug/Lug/L

1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLOROMAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUDRENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

January 29, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-112

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> 0220	<u>Tag</u> 0233
Petroleum Hydrocarbon	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 2 1987

HYDROGEOLOGY DEPARTMENT

Comments BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103112 5

Sample Identification 0223

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

Acid Extractables

IEA Sample No. 103112 10

Sample Identification 0237

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103112 1

Sample Identification Tag 0213

Date Analyzed January 20, 1987 By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103112 6

Sample Identification Tag 0229

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601**Purgeable Halocarbons**IEA Sample No. 103112 2Sample Identification Tag 0217Date Analyzed January 20, 1987By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103112 7

Sample Identification Tag 0230

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103112 4

Sample Identification 0222

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GS/MS PCB/Pesticides

IEA Sample No. 103112 9

Sample Identification 0236

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103112 4

Sample Identification 0222

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	SENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (s) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSDIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103112 9

Sample Identification 0236

Date Extracted January 22, 1987

Date Analyzed January 28, 1987

By King

GS/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

IEA REPORT DATE: FEBRUARY 3, 1987

IEA REPORT NO.: 103-113
103-114
103-115
103-116
103-117



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-113

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> <u>0250</u>	<u>Tag</u> <u>0256</u>
Petroleum Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

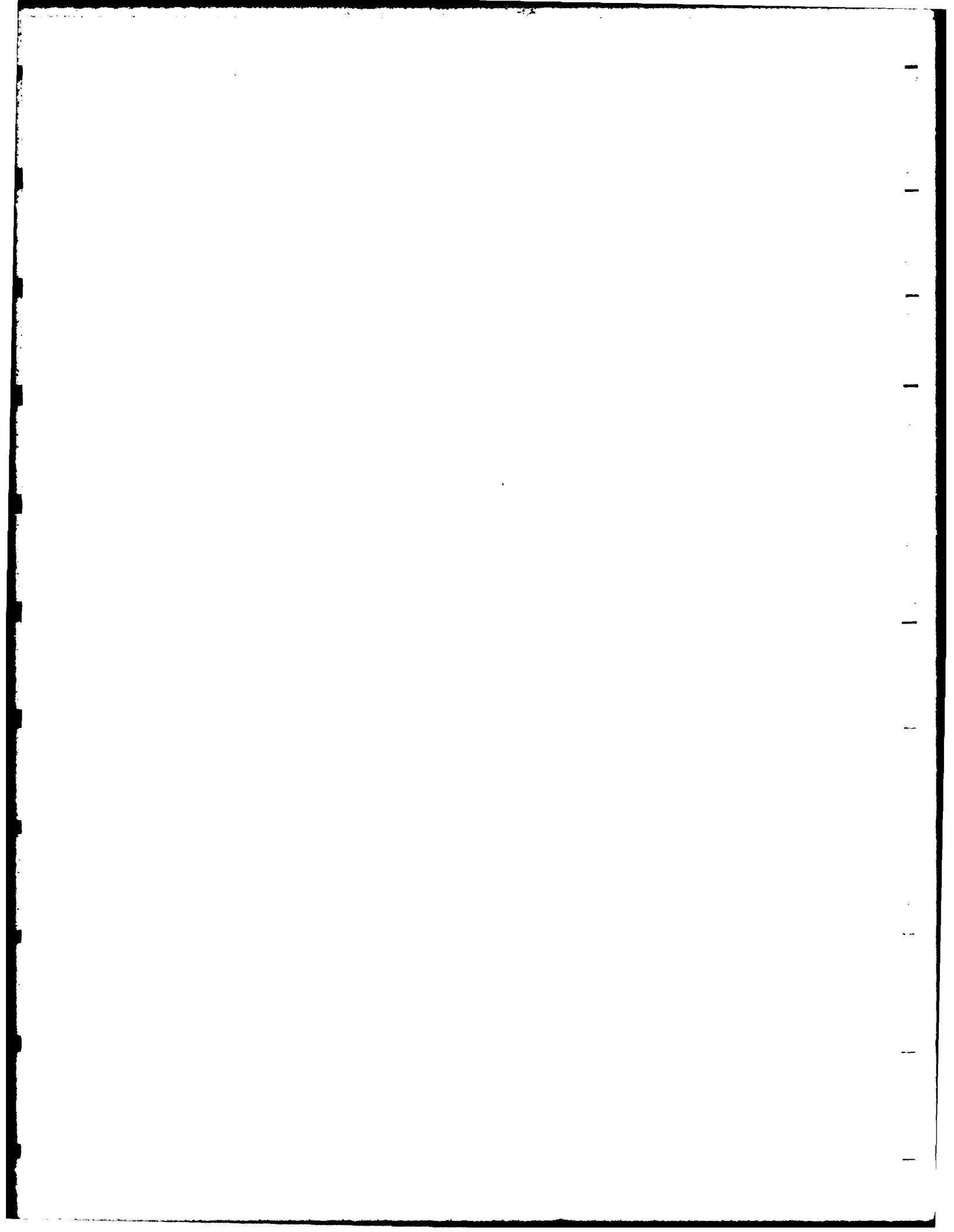
Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT



Comments

BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103113 5

Sample Identification 0247

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Randall

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103113 10

Sample Identification 0263

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/l</u>	<u>Concentration</u> <u>ug/l</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103113 1

Sample Identification Tag 0240

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103113 6

Sample Identification Tag 0252

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103113 2

Sample Identification Tag 0241

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	19
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethane	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	2.3
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

BDL

Purgeable Halocarbons

IEA Sample No. 103113 7

Sample Identification Tag 0253

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	3.8
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103113 4

Sample Identification 0251

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Randell

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103113 9

Sample Identification 0262

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6858N

IEA Sample No. 103113 4

Sample Identification 0251

Date Extracted January 23, 1987

Date Analyzed January 28, 1987

By Rendell

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103113 2

Sample Identification 0262

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-114

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> 0179	<u>Tag</u> 0195
Petroleum			
Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103114 5

Sample Identification Q182

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103114 10

Sample Identification 0192

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103114 1

Sample Identification Tag 0175

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103114 6

Sample Identification Tag 0185

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103114 2

Sample Identification Tag 0176

Date Analyzed January 23, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103114 7

Sample Identification Tag Q186

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103114 ±

Sample Identification 0181

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103114 9

Sample Identification 0191

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103114 4

Sample Identification 0181

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

(Date Collected = 30)

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITRISO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103114 9

Sample Identification 0191

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COP

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-115

Dear Mr. Alexander:

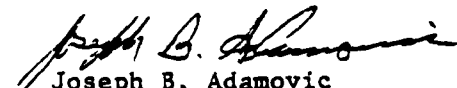
Transmitted herewith are the results of analyses on ten samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> <u>0269</u>	<u>Tag</u> <u>0290</u>
Petroleum			
Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.


Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Y-116

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103115 1

Sample Identification Tag 0264

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	1.8
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	9.6
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103115 6

Sample Identification Tag 0286

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103115 2

Sample Identification Tag 0265

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	1.8
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	9.6
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103115 7

Sample Identification Tag 0287

Date Analyzed January 23, 1967

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103115 4

Sample Identification 0271

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103115 9

Sample Identification 0293

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Denies

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

6258N

IEA Sample No. 103115 4

Sample Identification 0271

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITroso-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6256N

IEA Sample No. 103115 9

Sample Identification 0293

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (gm) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103115 5

Sample Identification 0272

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103115 10

Sample Identification 0294

Date Extracted January 23, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

FILE COPY



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 13488
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-116

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twelve samples submitted to our laboratory on January 14, 1987.

		<u>Tag</u> <u>0280</u>	<u>Tag</u> <u>0306</u>
Petroleum Hydrocarbons	mg/L	<2.0	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

HYDROGEOLOGY DEPARTMENT

Y-127

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103116 1

Sample Identification Tag 0275

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
			<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	5.4
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103116 6

Sample Identification Tag 0297

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103116 2

Sample Identification Tag 0276

Date Analyzed January 23, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	6.4
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103116 4

Sample Identification 0282

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Detection Limit

Concentration

NumberCompoundug/Lug/L

<u>Number</u>	<u>Compound</u>	<u>ug/L</u>	<u>ug/L</u>
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625BN

IEA Sample No. 103116 11

Sample Identification 0308

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLORO BENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYL PHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSODIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSODIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

025A

GC/MS Acid Extractables

IEA Sample No. 103116 5

Sample Identification 0283

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103116 12

Sample Identification 0309

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u> <u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

Comments

BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 193116 4

Sample identification 0282

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 193116 11

Sample Identification 0308

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Danteis

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 3, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-117

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on seven samples submitted to our laboratory on January 14, 1987.

		Tag <u>0316</u>
Petroleum		
Hydrocarbons	mg/L	<2.0

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 4 1987

LABORATORY DEPARTMENT

Y-137

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103117 1

Sample Identification Tag 0315

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

601

Purgeable Halocarbons

IEA Sample No. 103117 2

Sample Identification Tag 0314

Date Analyzed January 20, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments BDL - BELOW DETECTION LIMIT

625P

GC/MS PCB/Pesticides

IEA Sample No. 103117 4

Sample Identification 0317

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
1	ALDRIN	10	BDL
2	Alpha - BHC	10	BDL
3	Beta - BHC	10	BDL
4	Delta - BHC	10	BDL
5	Gamma - BHC	10	BDL
6	CHLORDANE	10	BDL
7	4,4'-DDD	10	BDL
8	4,4'-DDE	10	BDL
9	4,4'-DDT	10	BDL
10	DIELDRIN	10	BDL
11	ENDOSULFAN I	10	BDL
12	ENDOSULFAN II	10	BDL
13	ENDOSULFAN SULFATE	10	BDL
14	ENDRIN	10	BDL
15	ENDRIN ALDEHYDE	10	BDL
16	HEPTACHLOR	10	BDL
17	HEPTACHLOR EPOXIDE	10	BDL
18	TOXAPHENE	10	BDL
19	PCB 1016	10	BDL
20	PCB 1221	10	BDL
21	PCB 1232	10	BDL
22	PCB 1242	10	BDL
23	PCB 1248	10	BDL
24	PCB 1254	10	BDL
25	PCB 1260	10	BDL

Comments BDL - BELOW DETECTION LIMIT

6252N

IEA Sample No. 103117 4

Sample Identification 0317

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

GC/MS Base/Neutral Extractables

Number	Compound	Detection Limit	Concentration
		ug/L	ug/L
1	ACENAPHTHENE	25	BDL
2	ACENAPHTHYLENE	10	BDL
3	ANTHRACENE	10	BDL
4	BENZIDINE	10	BDL
5	BENZO (a) ANTHRACENE	10	BDL
6	BENZO (a) PYRENE	10	BDL
7	BENZO (b) FLUORANTHENE	10	BDL
8	BENZO (ghi) PERYLENE	25	BDL
9	BENZO (k) FLUORANTHENE	10	BDL
10	BIS (2-CHLOROETHOXY) METHANE	10	BDL
11	BIS (2-CHLOROETHYL) ETHER	10	BDL
12	BIS (2-CHLOROISOPROPYL) ETHER	10	BDL
13	BIS (2-ETHYLHEXYL) PHTHALATE	10	BDL
14	4-BROMOPHENYL PHENYL ETHER	10	BDL
15	BENZYL BUTYL PHTHALATE	10	BDL
16	2-CHLORONAPHTHALENE	10	BDL
17	4-CHLOROPHENYL PHENYL ETHER	10	BDL
18	CHRYSENE	10	BDL
19	DIBENZO (a,h) ANTHRACENE	10	BDL
20	1,2-DICHLOROBENZENE	10	BDL
21	1,3-DICHLOROBENZENE	10	BDL
22	1,4-DICHLOROBENZENE	10	BDL
23	3,3'-DICHLOROBENZIDINE	10	BDL
24	DIETHYL PHTHALATE	10	BDL
25	DIMETHYL PHTHALATE	10	BDL
26	DI-N-BUTYL PHTHALATE	10	BDL
27	2,4-DINITROTOLUENE	10	BDL
28	2,6-DINITROTOLUENE	10	BDL
29	DI-N-OCTYLPHTHALATE	10	BDL
30	FLUORANTHENE	10	BDL
31	FLUORENE	10	BDL
32	HEXACHLOROBENZENE	10	BDL
33	HEXACHLOROBUTADIENE	10	BDL
34	HEXACHLOROCYCLOPENTADIENE	10	BDL
35	HEXACHLOROETHANE	10	BDL
36	INDENO (1,2,3-cd) PYRENE	25	BDL
37	ISOPHORONE	10	BDL
38	NAPHTHALENE	10	BDL
39	NITROBENZENE	10	BDL
40	N-NITROSDIMETHYLAMINE	10	BDL
41	N-NITROSO-DI-N-PROPYLAMINE	10	BDL
42	N-NITROSDIPHENYLAMINE	10	BDL
43	PHENANTHRENE	10	BDL
44	PYRENE	10	BDL
45	1,2,4-TRICHLOROBENZENE	10	BDL

Comments

BDL - BELOW DETECTION LIMIT

625A

GC/MS Acid Extractables

IEA Sample No. 103117 5

Sample Identification 0318

Date Extracted January 27, 1987

Date Analyzed January 30, 1987

By Daniels

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BDL
2	2-CHLOROPHENOL	25	BDL
3	2,4-DICHLOROPHENOL	25	BDL
4	2,4-DIMETHYLPHENOL	25	BDL
5	2,4-DINITROPHENOL	250	BDL
6	2-METHYL-4,6-DINITROPHENOL	250	BDL
7	2-NITROPHENOL	25	BDL
8	4-NITROPHENOL	25	BDL
9	PENTACHLOROPHENOL	25	BDL
10	PHENOL	25	BDL
11	2,4,6-TRICHLOROPHENOL	25	BDL

IEA REPORT DATE: FEBRUARY 5, 1987

IEA REPORT NO.: 103-118

FILE COPY



Industrial & Environmental Analysts, Inc.

P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

February 5, 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

Reference: IEA Report No. 103-118

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on two samples submitted to our laboratory on January 21, 1987.

		<u>Tag</u> <u>0371</u>	<u>Tag</u> <u>0375</u>
Petroleum Hydrocarbons	mg/Kg	<25	<25

Please see the enclosed reports for the remainder of your results.

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
Joseph B. Adamovic
Senior Chemist

JBA/jcl

RECEIVED

FEB 5 1987

HYDROGEOLOGY DEPARTMENT

Y-144

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103118 1

Sample Identification Tag 0371

Date Analyzed February 5, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments 6DL - BELOW DETECTION LIMIT

602

Purgeable Aromatics

IEA Sample No. 103118 2

Sample Identification Tag 0375

Date Analyzed February 3, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Benzene	1.0	BDL
2	Chlorobenzene	1.0	BDL
3	1,2-Dichlorobenzene	1.0	BDL
4	1,3-Dichlorobenzene	1.0	BDL
5	1,4-Dichlorobenzene	1.0	BDL
6	Ethylbenzene	1.0	BDL
7	Toluene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-trifluoroethane -

Detection Limit: 1.0 ug/Kg Concentration: 3.5 ug/Kg

Purgeable Halocarbons

IEA Sample No. 103118 1

Sample Identification Tag 0371

Date Analyzed February 3, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethane	1.0	BDL
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

1,1,2-Trichloro-1,2,2-trifluoroethane -

Detection Limit: 1.0 ug/Kg

Concentration: 160 ug/Kg

Purgeable Halocarbons

IEA Sample No. 103118 2

Sample Identification Tag 0375

Date Analyzed February 3, 1987

By Cornwell

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u> ug/Kg	<u>Concentration</u> ug/Kg
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	1.2
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	1.9
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

IEA REPORT DATE: FEBRUARY 26, 1987

IEA REPORT NO.: 103-119



Industrial & Environmental Analysts, Inc.
 P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

February 26, 1987

RECEIVED

Mr. Joe Alexander
 Research Triangle Institute
 P.O. Box 12194
 Research Triangle Park, NC 27709

MAR 2 1987

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-119

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on sixteen samples submitted to our laboratory on January 30, 1987.

	<u>Date</u> <u>Extracted</u>	<u>Date</u> <u>Analyzed</u>	<u>Tag</u> <u>0385</u>	<u>Tag</u> <u>0379</u>	<u>Tag</u> <u>0484</u> *	<u>Tag</u> <u>0498</u> *
Petroleum Hydrocarbons	2-6-87	2-6-87	<38 mg/Kg	<25 mg/Kg	<2.0 mg/L	<2.0 mg/L

Please see the enclosed reports for the remainder of your results.

** Invalid Data.*

Very truly yours,

INDUSTRIAL & ENVIRONMENTAL ANALYSTS, INC.

Joseph B. Adamovic
 Joseph B. Adamovic
 Senior Chemist

JBA/jcl

Y-150

Offices and laboratories located in: Essex Junction, Vermont
 Research Triangle Park, North Carolina

IEA REPORT DATE: MARCH 17, 1987

IEA REPORT NO.: 103-123
103-125
103-126



Industrial & Environmental Analysts, Inc.
P.O. Box 12846 • Research Triangle Park, NC 27709 • 919-467-9919

FILE COPY

March 17, 1987

RECEIVED

MAR 17 1987

Mr. Joe Alexander
Research Triangle Institute
P.O. Box 12194
Research Triangle Park, NC 27709

HYDROGEOLOGY DEPARTMENT

Reference: IEA Report No. 103-123

Dear Mr. Alexander:

Transmitted herewith are the results of analyses on twenty-two samples submitted to our laboratory on March 2, 1987.

Please see the enclosed reports for your results.

Very truly yours,

INDUSTRIAL & ENVIROMENTAL ANALYSTS, INC.

Joseph B Adamovic
Joseph B. Adamovic
Senior Chemist

TBA

JBA/jcl

Y-152

Offices and laboratories located in: Essex Junction, Vermont
Research Triangle Park, North Carolina

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 ⁶

Sample Identification 0592 ⁸

Date Analyzed March 11, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	18
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable Halocarbons

IEA Sample No. 103123 8

Sample Identification 0584

Date Analyzed March 11, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	6.3
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	3.5
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable Halocarbons

IEA Sample No. 103123 12

Sample Identification 0586

Date Analyzed March 11, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	17
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	10

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 16

Sample Identification 0588

Date Analyzed March 11, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	6.4
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 20

Sample Identification 0590

Date Analyzed March 11, 1987

By Folk

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/L</u>	<u>Concentration</u> <u>µg/L</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	22
18	trans-1,2-Dichloroethene	1.0	52
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	16

Comments

BDL - BELOW DETECTION LIMIT

601

Confirmatory analysis on 3% SP-1500 column.

Purgeable Halocarbons

IEA Sample No. 103123 1

Sample Identification 0806

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Detection Limit</u>	<u>Results</u>
		<u>µg/Kg</u>	<u>Concentration</u> <u>µg/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropane	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

Comments

BDL - BELOW DETECTION LIMIT

Confirmatory analysis on 3% SP-1500 column.

601

Purgeable Halocarbons

IEA Sample No. 103123 2

Sample Identification 0807

Date Analyzed March 12, 1987

By Scott

<u>Number</u>	<u>Compound</u>	<u>Results</u>	
		<u>Detection Limit</u> <u>ug/Kg</u>	<u>Concentration</u> <u>ug/Kg</u>
1	Bromodichloromethane	1.0	BDL
2	Bromoform	1.0	BDL
3	Bromomethane	1.0	BDL
4	Carbon tetrachloride	1.0	BDL
5	Chlorobenzene	1.0	BDL
6	Chloroethane	1.0	BDL
7	2-Chloroethylvinyl ether	1.0	BDL
8	Chloroform	1.0	BDL
9	Chloromethane	1.0	BDL
10	Dibromochloromethane	1.0	BDL
11	1,2-Dichlorobenzene	1.0	BDL
12	1,3-Dichlorobenzene	1.0	BDL
13	1,4-Dichlorobenzene	1.0	BDL
14	Dichlorodifluoromethane	1.0	BDL
15	1,1-Dichloroethane	1.0	BDL
16	1,2-Dichloroethane	1.0	BDL
17	1,1-Dichloroethene	1.0	BDL
18	trans-1,2-Dichloroethene	1.0	BDL
19	1,2-Dichloropropene	1.0	BDL
20	cis-1,3-Dichloropropene	1.0	BDL
21	trans-1,3-Dichloropropene	1.0	BDL
22	Methylene chloride	1.0	BDL
23	1,1,2,2-Tetrachloroethane	1.0	BDL
24	1,1,1-Trichloroethane	1.0	BDL
25	1,1,2-Trichloroethane	1.0	BDL
26	Tetrachloroethene	1.0	BDL
27	Trichlorofluoromethane	1.0	BDL
28	Vinyl Chloride	1.0	BDL
29	Trichloroethene	1.0	BDL

IEA REPORT NO.: 103-137

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 5

Sample Identification 0735

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u>
		<u>ug/L</u>	<u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Comments

BQL - BELOW QUANTITATION LIMIT

625A

Acid Extractables

IEA Sample No. 103137 6

Sample Identification 0771

Date Extracted April 28, 1987

Date Analyzed May 29, 1987

By King

<u>Number</u>	<u>Compound</u>	<u>Quantitation Limit</u>	<u>Results</u>
		<u>ug/L</u>	<u>Concentration</u> <u>ug/L</u>
1	4-CHLORO-3-METHYLPHENOL	25	BQL
2	2-CHLOROPHENOL	25	BQL
3	2,4-DICHLOROPHENOL	25	BQL
4	2,4-DIMETHYLPHENOL	25	BQL
5	2,4-DINITROPHENOL	250	BQL
6	2-METHYL-4,6-DINITROPHENOL	250	BQL
7	2-NITROPHENOL	25	BQL
8	4-NITROPHENOL	25	BQL
9	PENTACHLOROPHENOL	25	BQL
10	PHENOL	25	BQL
11	2,4,6-TRICHLOROPHENOL	25	BQL

Tag	Petroleum Hydrocarbon Extraction Date	Petroleum Hydrocarbon Analysis Date	8015 Analysis Date
0169	1-13-87	1-13-87	
0321	1-13-87	1-13-87	
0206	1-27-87	1-27-87	
0210	1-27-87	1-27-87	
0220	1-27-87	1-27-87	
0233	1-27-87	1-27-87	
0250	1-27-87	1-27-87	
0256	1-27-87	1-27-87	
0537			2-5-87
0466			2-5-87
0179	1-27-87	1-27-87	
0195	1-27-87	1-27-87	
0269	1-28-87	1-28-87	
0290	1-28-87	1-28-87	
0371	2-2-87	2-3-87	1-28-87
0375	2-2-87	2-3-87	1-28-87
0280	1-28-87	1-28-87	
0306	1-28-87	1-28-87	
0301			1-23-87
0316	1-28-87	1-28-87	

Tag	Petroleum Hydrocarbon Extraction Date	Petroleum Hydrocarbon Analysis Date	8015 Analysis Date
0035	12-1-86	12-1-86	11-20-86
0036	12-1-86	12-1-86	11-20-86
0040	12-1-86	12-1-86	11-20-86
0044	12-1-86	12-1-86	11-20-86
0048	12-1-86	12-1-86	11-20-86
0052	12-1-86	12-1-86	11-20-86
0056	12-1-86	12-1-86	11-20-86
0060	12-1-86	12-1-86	11-20-86
0064	12-1-86	12-1-86	11-20-86
0020	12-1-86	12-1-86	11-19-86
0024	12-1-86	12-1-86	11-19-86
0028	12-1-86	12-1-86	11-19-86
0032	12-1-86	12-1-86	11-19-86
0067	12-1-86	12-1-86	11-19-86
0121	1-13-87	1-13-87	
0127	1-13-87	1-13-87	
0133	1-13-87	1-13-87	
0139	1-13-87	1-13-87	
0149	1-13-87	1-13-87	
0159	1-13-87	1-13-87	

APPENDIX Z

REPORTED INORGANIC LABORATORY RESULTS

(Valid and Invalid Data)

Note: Some of the data reported in Appendix Z are regarded as invalid, as footnoted herein and in Volume 3. The basis for regarding these data as invalid is a result of missed holding times. Refer to Section 4 of the report (Vol. 1) for additional information.

Date(s) of Analysis: 9-11, 11-18, 12-15

Analyst: SS

Sample Type: Notebook No., Pg. No.'s Showing Sample Weights

Identity of Folio(s) Containing Data Sheets, Strip Charts and Calculations: 2676-16 SJAF

Element	SS			Sample Number	Detection Limit $\mu\text{g/g}$	Check Sampling		QA Sample		QA Spike	
	9-11	11-18	12-15			Expected	Found	Expected	Found	Expected	Found
Fe	2170	15700	6110		4.5						
Al	2600	1970	14,000		6.0						
Sb	12.6	16.4	20.1		6.3						
Pb	ND	ND	ND		3.0						
Ni	ND	ND	ND		2.8						
Cu	ND	ND	ND		0.6						
Zn	13.5	18.1	6.24		0.12						
Be	0.240	0.208	0.297		2.8						
Ag	3.00	2.96	.		0.34						
Cd	ND	2.67	0.60		2.1						
Cr	4.10	15.5	13.6		0.2						
Tl	ND	ND	ND		1.5						
					0.6						
					0.8						
As	ND	2.180	1.567		1.0						
Se	ND	0.231	0.296		12.0						
					0.7						
					2.4						
Hg	ND	ND	ND		3.4						
					7.0						
					12.0						
					0.5						
					0.32						
					0.22						
					0.1						

13 pri. poll results (W.R.C)

F 1 of 2

P. Hulce

Details of Analysis: 2-4, 5, 8-87 Analyst: B. Johnson Sample Type: Water Notebook No., Pg. No.'s Showing Sample Weights 5411-7, 10
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4324-2676-16 Seymour Johnson - February 1987

Element	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	Replicates	Check Samples		QA Sample		QA Spike	
	44	70	14	13	Sample No.	53	54	54	54	54	434	Expect Found	Expect Found	Expect Found	Expect Found	Expect Found	Expect Found
PAGE	407	413	419	426	444	447	457	458	468	472	464						
A ₅	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.049	0.0535	0.235	0.235	2.070	1.851
S ₆	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.00	0.99			2.070	0.587
B ₇	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			0.235	0.245	2.070	2.076
C ₈	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010			0.037	0.038	2.070	2.056
C ₉	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			0.261	0.253	2.070	2.092
C ₁₀	0.080	ND	0.031	ND	ND	ND	ND	ND	ND	ND	ND			0.339	0.357	2.070	2.039
P ₁₁	0.068	0.102	ND	0.070	ND	ND	ND	ND	0.100	ND	0.101			0.435	0.371	2.070	1.994
* H ₁₂	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				1.154	1.121	1.000	0.890
N ₁₃	0.039	ND	ND	0.020	ND	ND	ND	ND	ND	ND	ND			0.207	0.222	2.000	2.137
S ₁₄	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			0.060	0.048	2.000	2.079
A ₁₅	ND	0.062	ND	0.025	ND	ND	ND	ND	0.116	ND						2.000	2.013
T ₁₆	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					2.000	2.330
Z ₁₇	0.014	0.013	0.010	ND	ND	ND	ND	0.044	ND	ND	0.004			0.418	0.443	2.070	2.072
* QA data for Mg given in mg/L.																	
* Field # 1, no filter (ok)																	
* # 1, 1.5 # 2 (w/ filter ok)																	

F202

Date(s) of Analysis: _____ Analyst: _____ Sample Type: _____ Notebook No., Pg. No.'s Showing Sample Weights

Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 5-11-1 (1-1-1)

Element	SW 13	SW 12	MW 52	MW 53	SW 13	SW 12	MW 52	MW 53	Sample Number	Detection Limit	Replicates		Check Samples		QA Sample		QA Spike	
											Found	Expected	Found	Expected	Found	Expected	Found	Expected
As	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	417							
Sb	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	418							
Be	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002								
Cd	0.012	0.008	ND	ND	ND	ND	ND	ND	ND	0.006								
Cr	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008								
Cu	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014								
Pb	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.053								
Hg	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002								
Ni	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010								
Se	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004								
Ag	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007								
Tl	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002								
Zn	0.435	0.153	0.081	0.623	0.623	0.623	0.623	0.623	0.623	0.003								

1-3 pri pul mill 2011

Date(s) of Analysis: 2-8, 9, 10-87 Analyst: P. Hahn, B. Siskin Sample Type: Sail Notebook No., Pg. No.'s Showing Sample Weights: 511, 9, 10
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: Seymour Tabara - February 1987 (20-11-16)

Element	Sample Number					Detection Limit	Replicates	11/79		11/79		11/79		11/79		11/79	
	SD 12	SD 13	SD 14	SD 15	Expect-Found			Found	Expect-Found	Found	Expect-Found	Found	Expect-Found	Found	QA Spills	Expect-Found	Found
As	3.40 11.15	3.57 11.14	3.60 5.22	9.62 5.00	1.81 ND	1.29 ND	1.40 ND	0.91 ND	0.049	0.0496	10.6	5.57	92.6	81.6			
Sb	ND	ND	ND	ND	0.6	ND	ND	ND	1.00	0.99			98.8	100			
Be	0.199	0.298	0.299	0.299	0.12	0.295	0.295	0.295	0.235	0.235	1.9	0.794	92.8	92.6			
Cd	ND	ND	12.8	ND	0.34	ND	ND	ND	0.039	0.038	0.59	0.40	112	108			
Cr	5.17	6.05	8.97	6.68	2.1	6.30	6.30	6.30	0.261	0.255	71	20	108	104			
Cy	ND	6.35	43.3	6.08	2.8	7.05	7.05	7.05	0.339	0.351	25.1	23.1	142	141			
Pl	ND	108	150	28.3	6.3	123	123	123			34.0	27.5	249	254			
*Hg	ND	0.246	0.241	0.124	0.1	0.245	0.123	0.123			0.171	0.177	0.490	0.485			
Ni	3.28	13.0	13.4	9.07	3.0	11.3	11.3	11.3	0.207	0.208	29.5	27.5	112	111			
Se	0.30	0.99	0.58	0.70	0.2	0.80	0.80	0.80	0.0097	0.0096	0.4	0.40	99.6	108			
Ag	ND	ND	16.2	ND	2.8	ND	ND	ND	5.00	5.30			115	95.3			
Tl	ND	ND	ND	ND	0.3	ND	ND	ND	0.0253	0.0341			99.6	91.2			
Zn	11.0	104	285	14.8	0.6	113	113	113	0.418	0.443	191	163	384	393			

(INVALID DATA)

1314 00000 50000 4700

Date(s) of Analysis: 12-3-83-86 Analyst: B. Johnson Notebook No., Pg. No.'s Showing Sample Weights 5411, 1
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: 4324-2676-16 Seymour Johnson

Element	49/9		49/ml		EPA		49/9		49/9		49/9		
	Sample Number	Replicates	WP 481	Check Samples	WP 2K3	QA Sample	Expect Found	Found	Expect Found	Found	Expect Found	Found	
Fe	1230	79	0.788	0.75		23,800	24,100					120	78.5
Al	10200	10,600	0.746	0.74		57,800	12,100						
Sb	19.9	20.0			(AT-5)	0.73							
Ph	10.6	16.8	0.435	0.444	2.00	2.17	24.8	24.8				114	98.0
Ni	ND	ND	0.206	0.199			29.5	22.9				100	87.2
Cu	ND	ND	0.335	0.362			251	21.4				100	82.0
Zn	0.80	ND	0.418	0.569			191	157				100	86.3
Be	0.229	0.238	0.232	0.232			1.9	0.995				100	85.2
Ag	4.91	4.54			1.00	0.984						105	85.4
Cd	ND	ND	0.039	0.040	0.70	0.71	0.59	ND				100	81.5
Cr	4.68	4.56	0.261	0.290	1.25	1.36	71	2.64				105	86.4
Tl	ND	ND	(EPA WP 481)	24.5								100	44.7
Mn	3.83	3.98	0.348	0.376			613	337				104	91.3
V	4.67	4.44	0.864	0.896			72.4	46.4				105	88.9
Co	1.08	ND	0.261	0.271			10.8	10.5				101	86.4
Ba	22.1	23.4			(I, M, H, C, 9A)	1.00						122	107
Mg	104	117			(I, M, H, C, 9A)	10.0	8680	7230					
Mn	ND	ND			(I, M, H, C, 9A)	10.0							
B	210	194			(AT-5)	3.00						302	272
Ca	29.9	32.7			(AT-5)	1.00	4820	2310				131	121
Si	538	456			(AT-5)	1.00	515,000	666				587	692
Na	96.8	9.7			(AT-5)	1.00							
K	121	121			0.082	0.085	18,400	3710				231	249

Details of Analysis: 2-6, 12-87 Analyst: B. J. J. J. Sample Type: water Notebook No., Pg. No.'s Showing Sample Weights 54/1, 6, 8
 Identity of Folder(s) Containing Data Sheets, Strip Charts and Calculations: Seymour Johnson - February 1987 (2046-10)

Element	MV	MV	MV	MW	MW	MW	MW	MW	MW	Detection Limit µg/ml	Replicates	Check Samples		µg/ml		µg/ml		µg/ml			
	41	42	43	44	45	46	47	48	49			Expect- Yed	Found	Expect- Yed	Found	Expect- Yed	Found	Expect- Yed	Found	Expect- Yed	Found
	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002	ND	0.0337	0.0344	0.435	0.452	0.1000	0.0937				
X	Blind	dy	MW	11	20	K	(15 Jan '87)														
X X	Field	Fluor	1	(NO	plum)	106)															

SAMPLE ID (Date)	DATE OF ANALYSIS	F μg/mL	CL μg/mL	NO ₂ [*] μg/mL	PO ₄ [*] μg/mL	BE μg/mL	NO ₃ [*] μg/mL	SO ₄ μg/mL	DEPTH (m)
MW-51 (21 Jan) (438)	2/2, 2/3 123, 131	N.D.	40.60	N.D.*	N.D.*	1.991	0.154*	0.217	0-7
MW-50 (21 Jan) (446)	2/2/87 123	0.035	0.166	ND*	ND*	ND	ND*	0.250	0-7
MW-53 (21 Jan) (449)	2/2, 2/3 123, 131	N.D.	30.01	N.D.*	N.D.*	1.376	N.D.*	15.564	0-7
MW-51 (21 Jan) (456)	2/2, 2/3 123, 131	0.056	8.150	ND.*	N.D.*	N.D.	4.322*	17.955	M-7
MW-54 (23 Jan) (462)	2/2/87 103	0.033	4.352	ND*	ND*	0.169	4.678*	14.066	S-5
MW-13 (25 Jan) (504)	2/2, 2/3 53, 63	0.093	6.726	ND*	ND*	0.102	ND*	57.118	(S-5)
MW-12 (28 Jan) (514)	2/2/87 53	0.048	2.319	N.D.*	0.688*	N.D.	0.171*	16.231	
MW-52 (28 Jan) (524)	2/3/87 64	ND	22.980	ND*	ND*	1.034	ND*	10.780	0-7
MW-58 (28 Jan) (530)	2/3/87 65	ND	23.264	ND*	ND*	1.036	ND*	10.900	
MW-51 (28 Jan) (531)	2/2/87 131	0.018	3.979	ND*	ND*	ND	ND*	13.031	

(* INVALID DATA)

	SAMPLE ID	DATE of ANALYSIS	F µg/mL	Cl µg/mL	NO ₂ * µg/mL	PO ₄ * µg/mL	BR µg/mL	NO ₃ * µg/mL	SO ₄ µg/mL	
MW-50 (15 Jan)	319	1/30/87 158	0.021	2.831	N.D.*	N.D.	0.133	0.945	1.053	3-7
MW-12 (10 Jan)	331	1/30, 2/3 142	N.D.	5.704	N.D.*	0.848	0.339	0.143	12.688	3-8
L-44 (16 Jan)	338	1/30, 2/3 170, 128	ND	11.541	ND*	ND	0.607	ND	11.572	3-9
MW-45 (16 Jan)	344	1/30, 2/3 142, 128	0.066	17.259	N.D.	N.D.	0.460	0.134	7.936	3-10
MW-46 (16 Jan)	350	1/30, 2/3 170, 128	0.461	38.54	N.D.	N.D.	0.886	ND	33.957	3-11
MW-43 (14 Jan)	395	1/30/87 103	N.D.	3.565	N.D.	N.D.	N.D.	7.241	0.306	3-12
MW-47 (20 Jan)	401	2/2, 2/3 138, 143	N.D.	19.739	N.D.	N.D.	0.198	0.307	44.978	3-13
MW-49 (20 Jan)	405	2/2, 2/3 130, 145	N.D.	15.848	N.D.	N.D.	0.143	0.209	48.252	3-14
MW-48 (20 Jan)	411	2/2/87 138	N.D.	3.621	N.D.	N.D.	N.D.	0.512	11.701	3-15
MW-14 (20 Jan)	417	2/2/87 133	0.012	3.687	N.D.	N.D.	N.D.	0.137	11.872	3-16
MW-13 (21 Jan)	424	2/2, 2/3 128, 138	N.D.	14.747	N.D.	N.D.	0.558	0.087	6.775	3-17
SW-10 (21 Jan)	431	2/2, 2/3 126, 134	0.208	16.192	0.470	N.D.	0.173	2.024	40.174	3-18

(* INVALID DATA) Z-12

Sample #	Date Analyzed	NO ₂ µg/mL	PO ₄ µg/mL	NO ₃ µg/mL
M-3 (0663)	4/15/87	ND	ND	ND
(0667)	"	ND	ND	0.086
M-3 (0677)	"	ND	ND	ND
(0683)	"	ND	ND	3.493
(0712)	"	ND	ND	2.014
M-13 (0739)	"	ND	ND	0.217
(0743)	"	ND	ND	ND
M-6 (0766)	4/16/87	ND	ND	ND
(0718)	"	ND	ND	ND
(0722)	"	ND	ND	ND
(0726)	"	ND	ND	ND
(0769)	"	ND	ND	ND
M-4 (0687)	4/17/87	ND	ND	ND
(0699)	"	ND	ND	ND
(0691)	"	ND	ND	ND
(0695)	"	ND	ND	ND
M-3 (0671)	4/23/87	ND	ND	ND
(5) (0703)	"	ND	ND	ND
(0730)	"	ND	ND	2.245
(S 25) (0745)	"	ND	ND	ND
(0749)	"	ND	ND	ND
M-6 (0770)	"	ND	ND	ND
(0765)	"	ND	2-14 ND	ND

QA Data

NO₂ / NO₃

		NO ₂ $\mu\text{g/mL}$		NO ₃	
		found	expected	found	expected
4/15/87	QA-1	0.575	0.60	0.458	0.45
	QA-2	0.560	0.60	0.453	0.45
4/17/87	QA-1	0.557	0.60	0.411	0.45
4/23	QA-1	0.586	0.60	0.431	0.45

TDS data*

ID	EMPTY DISH (gms)	DISH + SOLIDS (gms) Reading 1	Reading 2	Reading 3	AVG (whole num convts)	(FILTERABLE) TOTAL DISSOLVED SOLIDS (mg/l)	RESIDUE 4324-2676
M-50	0323 ✓	69.5921	69.5931	69.5936	.5934	13	160.1
M-12	0335 ✓	68.8691	68.8780	68.8783	.8782	91	
M-4	0342 ✓	70.0920	70.0967	70.0972	.0970	50	
M-15	0347 ✓	70.0216	70.0282	70.0290	.0286	70	
M-46	0354 ✓	69.2206	69.2837	69.2834	.0236	30	
M-47	0369 ✓	67.0333	67.0500	67.0494	.0497	164	
M-43	0399 ✓	69.9034	69.9034	69.9043	.9039	5	
M-49	0409 ✓	102.3569	102.3915	102.3921	.3918	349	
M-43	0415 ✓	106.5781	106.5886	106.5888	.5887	106	
M-1	0421 ✓	97.4746	97.4812	97.4806	.4809	63	
M-50	0423 ✓	72.2358	72.2420	72.2425	.2423	65	
M-17	0429 ✓	101.1748	101.1938	101.1943	.1941	193	
M-1	0436 ✓	100.5819	100.5955	100.5950	.5953	134	Some drops of M-11
M-1	0442 ✓	97.5869	97.6500	97.6495	.6498	629	Suction water trapped back into flask at one of the sample.
M-1	0448 ✓	102.6783	102.6793	102.6799	.6796	13	(M-11)
M-53	0453 ✓	101.4634	101.5205	101.5210	.5208	574	
M-11	0460 ✓	97.1027	97.1104	97.1108	.1106	79	(M-11)
M-54	0468 ✓	68.5611	68.5627	68.5631	.5629	18	(M-11)
M-3	0510 ✓	68.4692	68.4795	68.4790	.4793	101	
M-12	0520 ✓	68.3001	68.3089	68.3094	.3092	31	
M-1	0528 ✓	67.8324	67.9045	67.9047	.9046	722	
M-1	0535 ✓	70.3636	67.4306	67.4312	.4309	673	

FILTERABLE RESIDUE, mg/l = $\frac{(res + dish - dish) \times 1000}{vol \text{ of sample (ml)}}$

Note - samples were evaporated on hot plate directly at beginning of evaporation step. When liquid level was near the bottom of beaker, (perhaps) samples were transferred to steam bath to dry.

180°C, 1 hr., then 50°C under 20 psig vacuum overnight
 100ml vol of sample was used.
 Angel Reave filters 94AH
 Delman filter apparatus
 Water aspirated vacuum-filter

made desiccator out of large washing square halgene tub by adding ducrite at bottom & taping cover shut.

*(All TDS data are invalid)

Total Alkalinity

3/9/87

Sample. mg/L CaCO₃

✓ 545 P.S-3 ND

✓ 563 P.S-29 ND (INCORRECT STICKER NO. ON P.S-29)

✓ 564 P.S-29 ND

✓ 567 P.S-3 ND

20 FEB 87

<u>Sample</u>	<u>Initial pH</u>	<u>Total Alkalinity, mg/L CaCO₃</u>
MW-54/70 20' 20"	5.07	2.5
MW- ^{17/} 475 20' 20"	5.98	0.5 (BLANK)
512 20' 20"	3.94	0
522	6.07	7.0
^{2/} 534 20' 20"	5.15	4.5
Detection limit		10

Note: All samples below detection limit.

1) field blank

2) Blank dup MW-54; 10' S (23 JAN '87)