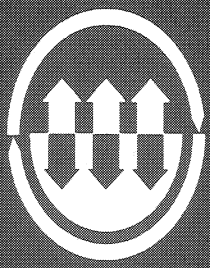
DESCRIPTION OF CURRENT CONDITIONS
VOLUME 4

GENERAL MOTORS CORPORATION
SAGINAW METAL CASTING OPERATIONS
SAGINAW, MICHIGAN



EMCON

850 warrenville road • suite 106 • lisle, il 60532 • (708)241-2901

EMCON

DESCRIPTION OF CURRENT CONDITIONS REPORT

VOLUME 4

GM

GENERAL MOTORS CORPORATION
SAGINAW METAL CASTING OPERATIONS

Saginaw, Michigan

August, 1995

EMCON

850 Warrenville Road, Suite 106

Lisle, Illinois 60532

Environmental Engineers · Scientists · Constructors

Appendix 9.4
Available Laboratory Analytical Data
Former Oil House UST #1

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
No. WALL OIL HOUSE BLDG	E-418	10573	0	12/13/89	12/14/89
So. WALL OIL HOUSE BLDG	E-418	10574	0	12/13/89	12/14/89
E. WALL OIL HOUSE BLDG	E-418	10575	0	12/13/89	12/14/89
W. WALL OIL HOUSE BLDG	E-418	10576	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10573	LAB NO. 10574	LAB NO. 10575	LAB NO. 10576
Lead	mg/kg	<0.40	78	170	<0.40
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

PURGE WELL REMEDIA
Saginaw Grey Iron F
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
SLUDGE, OIL HOUSE BLDG.	E-418	577	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 577
Lead	mg/kg	110
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<1,000
Toluene	ug/kg	4,900
Ethylbenzene	ug/kg	2,900
Chlorobenzene	ug/kg	<1,000
1,3-Dichlorobenzene	ug/kg	<1,000
1,4-Dichlorobenzene	ug/kg	<1,000
1,2-Dichlorobenzene	ug/kg	<1,000
p-Xylene	ug/kg	3,800
m-Xylene	ug/kg	10,000
o-Xylene	ug/kg	8,400

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGR
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
B7 MW1 S3	E-418	12331	0	02/07/90	02/09/90
B8 MW2 S2	E-418	12332	0	02/07/90	02/09/90
B9 MW3 S2	E-418	12333	0	02/07/90	02/09/90

ANALYTICAL REPORT
DATE REPORTED 02/13/90

TEST	UNITS	LAB NO. 12331	LAB NO. 12332	LAB NO. 12333
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	58
Toluene	ug/kg	<10 ‡	<10	84
Ethylbenzene	ug/kg	<10 ‡	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION P
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-1 OIL BLDG	E-418	12733	0	02/21/90	02/22/90
MW-2 OIL BLDG	E-418	12734	0	02/21/90	02/22/90
MW-3 OIL BLDG	E-418	12735	0	02/21/90	02/22/90

ANALYTICAL REPORT
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12733	LAB NO. 12734	LAB NO. 12735
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	11,000	<1.0	<1.0
Toluene	ug/L	21,000	<1.0	2.2
Ethylbenzene	ug/L	3,600	<1.0	<1.0
Chlorobenzene	ug/L	<100	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<100	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<100	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<100	<1.0	<1.0
p-Xylene	ug/L	5,500	<1.0	<1.0
m-Xylene	ug/L	13,000	<1.0	<1.0
o-Xylene	ug/L	900	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. DOUGLAS E DROUARE

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-2	E-418	13015	0	03/07/90	03/08/90

ANALYTICAL REPORT
DATE REPORTED 03/12/90

TEST	UNITS	LAB NO. 13015
GEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
oluene	ug/L	<1.0
thylbenzene	ug/L	<1.0
hlorobenzene	ug/L	<1.0
3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
2-Dichlorobenzene	ug/L	<1.0
Xylene	ug/L	<1.0
-Xylene	ug/L	<1.0
Xylene	ug/L	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGR.
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location	Lab No	Time Sampled	Date Sampled	Date Received
OIL HOUSE (Excavated Soil Stock Pile)	E-0418 13632	1500	03/27/90	03/27/90

ANALYTICAL REPORT
DATE REPORTED 03/30/90

TEST	UNITS	LAB NO. 13632
Petroleum Hydrocarbons	ug/kg	<10
Arsenic	ug/kg	3.3
Barium	ug/kg	12
Cadmium	ug/kg	<0.20
Chromium	ug/kg	2.5
Copper	ug/kg	8.6
Lead	ug/kg	3.0
Mercury	ug/kg	<0.010
Selenium	ug/kg	0.06
Silver	ug/kg	1.4
Zinc	ug/kg	13
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	36
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
o-Xylene	ug/kg	48
p-Xylene	ug/kg	<10
m-Xylene	ug/kg	170

PROJECT MANAGER Jacqueline A. Smith

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. DOUGLAS E DROUARE

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-10 20-22' E-418	13825	0	03/29/90	04/02/90

ANALYTICAL REPORT
DATE REPORTED 04/16/90

TEST	UNITS	LAB NO. 13825
Petroleum Hydrocarbons	mg/kg	<10
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
p-Xylene	ug/kg	<10
m-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10

PROJECT MANAGER Carol L. Fulton

PURGE WELL REMEDIATION PROGR
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418	15733	0	5/23/90	05/24/90
MW-11	E-418	15734	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15731	LAB NO. 15732	LAB NO. 15733	LAB NO. 15734
PURGEABLE AROMATICS				EPA 602	EPA 602
Benzene	ug/L			<1.0	<1.0
Toluene	ug/L			2.0	<1.0
Ethylbenzene	ug/L			5.7	<1.0
Chlorobenzene	ug/L			<1.0	<1.0
1,3-Dichlorobenzene	ug/L			<1.0	<1.0
1,4-Dichlorobenzene	ug/L			<1.0	<1.0
1,2-Dichlorobenzene	ug/L			<1.0	<1.0
p-Xylene	ug/L			13	<1.0
m-Xylene	ug/L			13	<1.0
o-Xylene	ug/L			3.1	<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-12	E-418	15735	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15735
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
p-Xylene	ug/L	<1.0
m-Xylene	ug/L	<1.0
o-Xylene	ug/L	<1.0

PROJECT MANAGER Lori A Vachon

Observed below detection level

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRA
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
OIL BLDG PURGE WELL	E-418B	18171	0	08/01/90	08/03/90
MW-10	E-418B	18172	0	08/01/90	08/03/90
MW-11	E-418B	18173	0	08/01/90	08/03/90
MW-12	E-418B	18174	0	08/01/90	08/03/90

ANALYTICAL REPORT
DATE REPORTED 08/08/90

TEST	UNITS	LAB NO. 18171	LAB NO. 18172	LAB NO. 18173	LAB NO. 18174
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	2.7	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	1.5	<1.0	<1.0	<1.0
m-Xylene	ug/L	2.7	<1.0	<1.0	<1.0
p-Xylene	ug/L	4.2	<1.0	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-10	OIL HOUSE	E-418 B	20717	0	10/15/90	10/17/90
MW-11	OIL HOUSE	E-418 B	20718	0	10/15/90	10/17/90
MW-12	OIL HOUSE	E-418 B	20719	0	10/15/90	10/17/90
PURGE SYSTEM	OIL HOUSE	E-418 B	20720	0	10/15/90	10/17/90

ANALYTICAL REPORT
DATE REPORTED 10/31/90

TEST	UNITS	LAB NO. 20717	LAB NO. 20718	LAB NO. 20719	LAB NO. 20720
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vacha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGR.
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

SEG-TEST, LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418 B	21829	0	11/19/90	11/20/90
MW-11	E-418 B	21830	0	11/19/90	11/20/90
MW-12	E-418 B	21831	0	11/19/90	11/20/90
PURGE SYSTEM OIL BUILDING	E-418 B	21832	0	11/19/90	11/20/90

ANALYTICAL REPORT
DATE REPORTED 12/11/90

TEST	UNITS	LAB NO. 21829	LAB NO. 21830	LAB NO. 21831	LAB NO. 21832
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vacha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROC
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-10 OIL BLDG E-418B	22804	0	12/19/90	12/21/90
MW-11 OIL BLDG E-418B	22805	0	12/19/90	12/21/90
MW-12 OIL BLDG E-418B	22806	0	12/19/90	12/21/90
PURGE SYSTEM EFF. OIL BLDG E-418B	22807	0	12/19/90	12/21/90

ANALYTICAL REPORT
DATE REPORTED 01/03/91

TEST	UNITS	LAB NO. 22804	LAB NO. 22805	LAB NO. 22806	LAB NO. 22807
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2 Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vacha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418B	23437	0	01/25/91	01/30/91
MW-11	E-418B	23438	0	01/25/91	01/30/91
MW-12	E-418B	23439	0	01/25/91	01/30/91

ANALYTICAL REPORT
DATE REPORTED 02/07/91

TEST	UNITS	LAB NO. 23437	LAB NO. 23438	LAB NO. 23439
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

NET NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION PROG
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87330

E-418C

Sample Description: MW-10

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<1.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes				

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION
Saginaw Grey Iron
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87331

E-418C

Sample Description: MW-11

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION PROGRA
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87332

E-418C

Sample Description: MW-12

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87333

E-418C

Sample Description: Oil House Purge System Effluent

Date Taken: 02/26/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Bruce E. Brown
Project Manager

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

GEO-TEST, LTD
970 BAY ROAD
SAGINAW, MI 48603
ATTN: LARRY ENGELHART

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-10 E-418-B	25127	0	03/28/91	03/29/91
MW-11 E-418-B	25128	0	03/28/91	03/29/91
MW-12 E-418-B	25129	0	03/28/91	03/29/91
PURGE WELL EFFLUENT E-418-B	25130	0	03/28/91	03/29/91

ANALYTICAL REPORT
DATE REPORTED 04/10/91

TEST	UNITS	LAB NO. 25127	LAB NO. 25128	LAB NO. 25129	LAB NO. 25130
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
m,p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Kocher

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GIL Job No. E-0418B
Page:

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

TEST, LTD
BAY ROAD
NAW, MI 48603
LARRY ENGELHART

PROJECT NUMBER

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-10	OIL HOUSE BLDG	E-418B	25886	0	04/25/91	04/26/91
MW-11	OIL HOUSE BLDG	E-418B	25887	0	04/25/91	04/26/91
MW-12	OIL HOUSE BLDG	E-418B	25888	0	04/25/91	04/26/91
PURGE SYSTEM EFFLUENT		E-418B	25889	0	04/25/91	04/26/91

ANALYTICAL REPORT
DATE REPORTED 05/14/91

TEST	UNITS	LAB NO. 25886	LAB NO. 25887	LAB NO. 25888	LAB NO. 25889
EABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
ene	ug/L	<1.0	<1.0	<1.0	<1.0
ene	ug/L	<1.0	<1.0	<1.0	<1.0
lbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
robenzene	ug/L	<1.0	<1.0	<1.0	<1.0
-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
lene	ug/L	<1.0	<1.0	<1.0	<1.0
lene	ug/L	<1.0	<1.0	<1.0	<1.0
lene	ug/L	<1.0	<1.0	<1.0	<1.0

ROJECT MANAGER Lori A. Vachon

SEG LABORATORIES, INC.

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GIL Job No. E-0418B
Page:

PROJECT NUMBER

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. JIM CULBERTSON

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418 B	27041	1045	05/29/91	05/31/91
MW-11	E-418 B	27042	1200	05/29/91	05/31/91
MW-12	E-418 B	27043	200	05/29/91	05/31/91
PURGE SYSTEM EFFLUENT	E-418 B	27044	300	05/29/91	05/31/91

ANALYTICAL REPORT
DATE REPORTED 06/18/91

TEST	UNITS	LAB NO. 27041	LAB NO. 27042	LAB NO. 27043	LAB NO. 27044
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

Field Test Sampling

SAMPLE LOCATION SCHEDULE AND FIELD TEST RESULTS

Field Sample No.	Analytical Lab No.	Location	Depth	In-Field * Testing Results
1	-----	N. Wall	4'	100
2	-----	S. Wall	5½'	40
3	-----	E. Wall	5'	15.0
4	-----	W. Wall	4½'	40
5	10573	N. Wall	4½'	95
6	10574	S. Wall	5½'	45
7	10575	E. Wall	5'	25
8	10576	W. Wall	5'	35
9	10572	Groundwater		

* NOTE: Field screening results obtained utilizing an H-NU Systems Volatile Organic Analyzer (VOA). Concentrations are recorded in parts per million (ppm).

COPY

Excavation Wall Samp

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

PROJECT NUMBER

Location		Lab No	Time Sampled	Date Sampled	Date Received
No. WALL OIL HOUSE BLDG	E-418	10573	0	12/13/89	12/14/89
So. WALL OIL HOUSE BLDG	E-418	10574	0	12/13/89	12/14/89
E. WALL OIL HOUSE BLDG	E-418	10575	0	12/13/89	12/14/89
W. WALL OIL HOUSE BLDG	E-418	10576	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10573	LAB NO. 10574	LAB NO. 10575	LAB NO. 10576
Lead	mg/kg	<0.40	78	170	<0.40
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

COPY

sample of UST contents

Location		Lab No	Time Sampled	Date Sampled	Date Received
SLUDGE, OIL HOUSE BLDG.	E-418	577	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 577
Lead	mg/kg	110
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<1,000
Toluene	ug/kg	4,900
Ethylbenzene	ug/kg	2,900
Chlorobenzene	ug/kg	<1,000
1,3-Dichlorobenzene	ug/kg	<1,000
1,4-Dichlorobenzene	ug/kg	<1,000
1,2-Dichlorobenzene	ug/kg	<1,000
p-Xylene	ug/kg	3,800
m-Xylene	ug/kg	10,000
o-Xylene	ug/kg	8,400

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Excavation
Floor Sample

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER OIL HOUSE BLDG	E-418	10572	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10572
Lead	ug/L	0.305
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<50
Toluene	ug/L	<50
Ethylbenzene	ug/L	<50
Chlorobenzene	ug/L	<50
1,3-Dichlorobenzene	ug/L	<50
1,4-Dichlorobenzene	ug/L	<50
1,2-Dichlorobenzene	ug/L	<50
p-Xylene	ug/L	93
m-Xylene	ug/L	220
o-Xylene	ug/L	210

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PR
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Borehole Samples

GEO-TEST, LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
B7 MW1 S3	E-418	12331	0	02/07/90	02/09/90
B8 MW2 S2	E-418	12332	0	02/07/90	02/09/90
B9 MW3 S2	E-418	12333	0	02/07/90	02/09/90

ANALYTICAL REPORT
DATE REPORTED 02/13/90

TEST	UNITS	LAB NO. 12331	LAB NO. 12332	LAB NO. 12333
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	58
Toluene	ug/kg	<10	<10	84
Ethylbenzene	ug/kg	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION [redacted]R
Saginaw Grey Iron Found:
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Groundwater Samples

GEO-TEST. LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-1 OIL BLDG	E-418	12733	0	02/21/90	02/22/90
MW-2 OIL BLDG	E-418	12734	0	02/21/90	02/22/90
MW-3 OIL BLDG	E-418	12735	0	02/21/90	02/22/90

ANALYTICAL REPORT.
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12733	LAB NO. 12734	LAB NO. 12735
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	11,000	<1.0	<1.0
Toluene	ug/L	21,000	<1.0	2.2
Ethylbenzene	ug/L	3,600	<1.0	<1.0
Chlorobenzene	ug/L	<100	<1.0	<1.0
1.3-Dichlorobenzene	ug/L	<100	<1.0	<1.0
1.4-Dichlorobenzene	ug/L	<100	<1.0	<1.0
1.2-Dichlorobenzene	ug/L	<100	<1.0	<1.0
p-Xylene	ug/L	5,500	<1.0	<1.0
m-Xylene	ug/L	13,000	<1.0	<1.0
o-Xylene	ug/L	900	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

Groundwater Sample

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. DOUGLAS E BROWARE

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-2	E-418	13015	0	03/07/90	03/08/90

ANALYTICAL REPORT
DATE REPORTED 03/12/90

TEST	UNITS	LAB NO. 13015
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
M-Xylene	ug/L	<1.0
O-Xylene	ug/L	<1.0
P-Xylene	ug/L	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRA
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Excavated Soil Sample

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location	Lab No	Time Sampled	Date Sampled	Date Received
OIL HOUSE (Excavated Soil Stock Pile) E-0418	13632	1500	03/27/90	03/27/90

ANALYTICAL REPORT
DATE REPORTED 03/30/90

TEST	UNITS	LAB NO. 13632
Petroleum Hydrocarbons	ug/kg	<10
Arsenic	ug/kg	3.3
Barium	ug/kg	12
Cadmium	ug/kg	<0.20
Chromium	ug/kg	2.5
Copper	ug/kg	8.6
Lead	ug/kg	3.0
Mercury	ug/kg	<0.010
Selenium	ug/kg	0.06
Silver	ug/kg	1.4
Zinc	ug/kg	13
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	36
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
o-Xylene	ug/kg	98
-Xylene	ug/kg	<10
-Xylene	ug/kg	170

PROJECT MANAGER Jacqueline A. Smith

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Borehole Sample

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. DOUGLAS E DROUARE

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-10 20-22' E-418	13825	0	03/29/90	04/02/90

ANALYTICAL REPORT
DATE REPORTED 04/16/90

TEST	UNITS	LAB NO. 13825
Petroleum Hydrocarbons	mg/kg	<10
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
p-Xylene	ug/kg	<10
m-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10

PROJECT MANAGER Carol L. Fulton

PURGE WELL REMEDIATION PROC
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

groundwater samples

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418	15733	0	5/23/90	05/24/90
MW-11	E-418	15734	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15731	LAB NO. 15732	LAB NO. 15733	LAB NO. 15734
PURGEABLE AROMATICS				EPA 602	EPA 602
Benzene	ug/L			<1.0	<1.0
Toluene	ug/L			2.0	<1.0
Ethylbenzene	ug/L			5.7	<1.0
Chlorobenzene	ug/L			<1.0	<1.0
1,3-Dichlorobenzene	ug/L			<1.0	<1.0
1,4-Dichlorobenzene	ug/L			<1.0	<1.0
1,2-Dichlorobenzene	ug/L			<1.0	<1.0
p-Xylene	ug/L			13	<1.0
m-Xylene	ug/L			13	<1.0
o-Xylene	ug/L			3.1	<1.0

Purge Well Remediation Program Sampling

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Groundwater Sample

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-12	E-418	15735	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15735
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
p-Xylene	ug/L	<1.0
m-Xylene	ug/L	<1.0
o-Xylene	ug/L	<1.0

PROJECT MANAGER Lori A Vacha

* Observed below detection level

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Page: groundwater samples

Location		Lab No	Time Sampled	Date Sampled	Date Received
OIL BLDG PURGE WELL	E-418B	18171	0	08/01/90	08/03/90
MW-10	E-418B	18172	0	08/01/90	08/03/90
MW-11	E-418B	18173	0	08/01/90	08/03/90
MW-12	E-418B	18174	0	08/01/90	08/03/90

ANALYTICAL REPORT
DATE REPORTED 08/08/90

TEST	UNITS	LAB NO. 18171	LAB NO. 18172	LAB NO. 18173	LAB NO. 18174
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	2.7	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	1.5	<1.0	<1.0	<1.0
m-Xylene	ug/L	2.7	<1.0	<1.0	<1.0
p-Xylene	ug/L	4.2	<1.0	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Page: Groundwater Samples

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-10	OIL HOUSE	E-418 B	20717	0	10/15/90	10/17/90
MW-11	OIL HOUSE	E-418 B	20718	0	10/15/90	10/17/90
MW-12	OIL HOUSE	E-418 B	20719	0	10/15/90	10/17/90
PURGE SYSTEM	OIL HOUSE	E-418 B	20720	0	10/15/90	10/17/90

ANALYTICAL REPORT
DATE REPORTED 10/31/90

TEST	UNITS	LAB NO. 20717	LAB NO. 20718	LAB NO. 20719	LAB NO. 20720
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Fecko

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

SEG-TEST, LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Page: Groundwater Samples

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418 B	21829	0	11/19/90	11/20/90
MW-11	E-418 B	21830	0	11/19/90	11/20/90
MW-12	E-418 B	21831	0	11/19/90	11/20/90
PURGE SYSTEM OIL BUILDING	E-418 B	21832	0	11/19/90	11/20/90

ANALYTICAL REPORT
DATE REPORTED 12/11/90

TEST	UNITS	LAB NO. 21829	LAB NO. 21830	LAB NO. 21831	LAB NO. 21832
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vacha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION P
Saginaw Grey Iron Foundr
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Groundwater Samples

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-10	OIL BLDG	E-418B	22804	0	12/19/90	12/21/90
MW-11	OIL BLDG	E-418B	22805	0	12/19/90	12/21/90
MW-12	OIL BLDG	E-418B	22806	0	12/19/90	12/21/90
PURGE SYSTEM EFF.	OIL BLDG	E-418B	22807	0	12/19/90	12/21/90

ANALYTICAL REPORT
DATE REPORTED 01/03/91

TEST	UNITS	LAB NO. 22804	LAB NO. 22805	LAB NO. 22806	LAB NO. 22807
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2 Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vacha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION P
Saginaw Grey Iron Foundi
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Groundwater Samples

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418B	23437	0	01/25/91	01/30/91
MW-11	E-418B	23438	0	01/25/91	01/30/91
MW-12	E-418B	23439	0	01/25/91	01/30/91

ANALYTICAL REPORT
DATE REPORTED 02/07/91

TEST	UNITS	LAB NO. 23437	LAB NO. 23438	LAB NO. 23439
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vachon

NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87330

E-418C

Groundwater Sample

Sample Description: MW-10

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Bruce E. Brown
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE [illegible]L REMEDIATION PROG
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87331

groundwater sample

E-418C

Sample Description: MW-11

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Bruce E. Brown
Project Manager

NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. F-0418B

Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87332

F-418C

Groundwater Sample

Sample Description: MW-12

Date Taken: 02/25/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<1.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes				

Bruce E. Brown
Project Manager

NET NATIONAL ENVIRONMENTAL TESTING, INC.

PURGE WELL REMEDIATION PROG
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

ANALYTICAL REPORT

Larry Engelhart
GEO-TEST LTD
2970 Bay Road
Saginaw, MI 48603

03/15/1991

Job No.: 91.1204
Sample No.: 87333

Groundwater Sample

E-418C

Sample Description: Oil House Purge System Effluent

Date Taken: 02/26/1991

Date Received: 02/28/1991

Parameter	Result	Unit	Date Analy.	Lab Tech
VOLATILE COMPOUNDS - 8020				
Benzene	<1.	ug/L	03/13/1991	lrk
Chlorobenzene	<1.	ug/L	03/13/1991	lrk
1,4-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,3-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
1,2-Dichlorobenzene	<2.	ug/L	03/13/1991	lrk
Ethyl Benzene	<1.	ug/L	03/13/1991	lrk
Toluene	<1.	ug/L	03/13/1991	lrk
Xylenes	<1.	ug/L	03/13/1991	lrk

Brupe R. Brown
Project Manager

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B
Page:

GEO-TEST, LTD
970 BAY ROAD
SAGINAW, MI 48603
ATTN: LARRY ENGELHART

Groundwater Samples

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418-B	25127	0	03/28/91	03/29/91
MW-11	E-418-B	25128	0	03/28/91	03/29/91
MW-12	E-418-B	25129	0	03/28/91	03/29/91
PURGE WELL EFFLUENT	E-418-B	25130	0	03/28/91	03/29/91

ANALYTICAL REPORT
DATE REPORTED 04/10/91

TEST	UNITS	LAB NO. 25127	LAB NO. 25128	LAB NO. 25129	LAB NO. 25130
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Kocha

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION
Saginaw Grey Iron Found
Oil House Building
Saginaw, Michigan
GIL Job No. E-0418B
Page:

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

EO-TEST, LTD
2970 BAY ROAD
AGINAW, MI 48603
. LARRY ENGELHART

PROJECT NUMBER

Groundwater Samples

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-10	OIL HOUSE BLDG	E-418B	25886	0	04/25/91	04/26/91
MW-11	OIL HOUSE BLDG	E-418B	25887	0	04/25/91	04/26/91
MW-12	OIL HOUSE BLDG	E-418B	25888	0	04/25/91	04/26/91
PURGE SYSTEM EFFLUENT		E-418B	25889	0	04/25/91	04/26/91

ANALYTICAL REPORT
DATE REPORTED 05/14/91

TEST	UNITS	LAB NO. 25886	LAB NO. 25887	LAB NO. 25888	LAB NO. 25889
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
nzene	ug/L	<1.0	<1.0	<1.0	<1.0
luene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
lorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGR.
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER OIL HOUSE BLDG	E-418	10572	0	12/13/89	12/14/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10572
Lead	ug/L	0.305
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<50
Toluene	ug/L	<50
Ethylbenzene	ug/L	<50
Chlorobenzene	ug/L	<50
1,3-Dichlorobenzene	ug/L	<50
1,4-Dichlorobenzene	ug/L	<50
1,2-Dichlorobenzene	ug/L	<50
p-Xylene	ug/L	93
m-Xylene	ug/L	220
o-Xylene	ug/L	210

SEG LABORATORIES, INC.

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

PURGE WELL REMEDIATION PROGRA
Saginaw Grey Iron Foundry
Oil House Building
Saginaw, Michigan
GIL Job No. E-0418B
Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. JIM CULBERTSON

PROJECT NUMBER

Groundwater Samples

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-10	E-418 B	27041	1045	05/29/91	05/31/91
MW-11	E-418 B	27042	1200	05/29/91	05/31/91
MW-12	E-418 B	27043	200	05/29/91	05/31/91
PURGE SYSTEM EFFLUENT	E-418 B	27044	300	05/29/91	05/31/91

ANALYTICAL REPORT
DATE REPORTED 06/18/91

TEST	UNITS	LAB NO. 27041	LAB NO. 27042	LAB NO. 27043	LAB NO. 27044
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

SEG LABORATORIES, INC.

Groundwater Sample

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE01258-
Page
PROJECT: E-418
Report Date: 26 NOV 9

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVE
MW-10	Aqueous	12 NOV 91	13 NOV 9

CONSTITUENT	RESULT	*D.L.	UNITS	METHOD
PURGEABLE AROMATICS				
Benzene	2.7	1.0	ug/L	EPA 602
Toluene	<1.0	1.0	ug/L	EPA 602
Ethylbenzene	<1.0	1.0	ug/L	EPA 602
Chlorobenzene	<1.0	1.0	ug/L	EPA 602
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
p-Xylene	<1.0	1.0	ug/L	EPA 602
m-Xylene	<1.0	1.0	ug/L	EPA [redacted]
o-Xylene	<1.0	1.0	ug/L	EPA [redacted]

* Detection Limit

SEG Laboratories, Inc.

Approved

Groundwater Sample

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE0125
Page
PROJECT: E-4
Report Date: 26 NOV

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEI
MW-11	Aqueous	12 NOV 91	13 NOV

CONSTITUENT	RESULT	*D.L.	UNITS	METHOI
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA 60:
Toluene	<1.0	1.0	ug/L	EPA 60:
Ethylbenzene	<1.0	1.0	ug/L	EPA 60:
Chlorobenzene	<1.0	1.0	ug/L	EPA 60:
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60:
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60:
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60:
p-Xylene	<1.0	1.0	ug/L	EPA 60:
m-Xylene	<1.0	1.0	ug/L	EPA 60:
o-Xylene	<1.0	1.0	ug/L	EPA 60:

* Detection Limit

SEG Laboratories, Inc.

Lori A Vachon
Approved

Groundwater Sample

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE0125
Pag
PROJECT: E-4
Report Date: 26 NOV

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEI
MW-12	Aqueous	12 NOV 91	13 NOV

CONSTITUENT	RESULT	*D.L.	UNITS	METHO
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA 60
Toluene	<1.0	1.0	ug/L	EPA 60
Ethylbenzene	<1.0	1.0	ug/L	EPA 60
Chlorobenzene	<1.0	1.0	ug/L	EPA 60
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
p-Xylene	<1.0	1.0	ug/L	EP 60
m-Xylene	<1.0	1.0	ug/L	E 0
o-Xylene	<1.0	1.0	ug/L	E

* Detection Limit

SEG Laboratories, Inc.

Lori A. Parker
Approved

Groundwater Sample

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE01258
Page
PROJECT: E-41
Report Date: 26 NOV

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIV
PURGE WELL EFFLUENT	Aqueous	12 NOV 91	13 NOV

CONSTITUENT	RESULT	*D.L.	UNITS	METHOI
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA 60
Toluene	<1.0	1.0	ug/L	EPA 60
Ethylbenzene	<1.0	1.0	ug/L	EPA 60
Chlorobenzene	<1.0	1.0	ug/L	EPA 60
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 60
p-Xylene	<1.0	1.0	ug/L	EPA 60
m-Xylene	<1.0	1.0	ug/L	EPA 60
o-Xylene	<1.0	1.0	ug/L	EPA 60

* Detection Limit

SEG Laboratories, Inc.

Lori A Pachon
Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

Groundwater samples

LOG NO: SE02399

Received: 28 APR 92
Reported: 05 MAY 92

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE02399-1	MW-4	24 APR 92
SE02399-2	MW-5	24 APR 92
SE02399-3	MW-6	24 APR 92
SE02399-4	ANNEX BLDG. PURGE EFF.	24 APR 92
SE02399-5	MW-10	24 APR 92

PARAMETER	SE02399-1	SE02399-2	SE02399-3	SE02399-4	SE02399-5
BTEX COMPOUNDS					
Benzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0

Benzene value for Oil House Purge Effluent was confirmed in duplicate using separate vials.

SEG
LABORATORIES, INC.

groundwater samples

LOG NO: SE02399

Received: 28 APR 92
Reported: 05 MAY 92

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE02399-6	MW-11	24 APR 92
SE02399-7	MW-12	24 APR 92
SE02399-8	OIL HOUSE PURGE EFF.	24 APR 92

PARAMETER	SE02399-6	SE02399-7	SE02399-8
BTEX COMPOUNDS			
Benzene, ug/L	<1.0	<1.0	1.0
Toluene, ug/L	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0

Benzene value for Oil House Purge Effluent was confirmed in duplicate using separate vials.

Lori A Vachon
Approved

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE

PROJECT:
Report Date: 26

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RI
MW-12	Aqueous	12 NOV 91	13

CONSTITUENT	RESULT	*D.L.	UNITS	ME
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA
Toluene	<1.0	1.0	ug/L	EPA
Ethylbenzene	<1.0	1.0	ug/L	EPA
Chlorobenzene	<1.0	1.0	ug/L	EPA
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA
p-Xylene	<1.0	1.0	ug/L	A
m-Xylene	<1.0	1.0	ug/L	EPA
o-Xylene	<1.0	1.0	ug/L	EPA

* Detection Limit

SEG Laboratories, Inc.

Lori A. Vachon
Approved

SEG LABORATORIES, INC.

MR. JIM CUTHBERTSTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE01258-1
Page 1
PROJECT: E-418E
Report Date: 26 NOV 91

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME		RECEIVED
MW-10	Aqueous	12 NOV 91		13 NOV 91
CONSTITUENT	RESULT	*D.L.	UNITS	METHOD
PURGEABLE AROMATICS				
Benzene	2.7	1.0	ug/L	EPA 602
Toluene	<1.0	1.0	ug/L	EPA 602
Ethylbenzene	<1.0	1.0	ug/L	EPA 602
Chlorobenzene	<1.0	1.0	ug/L	EPA 602
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
p-Xylene	<1.0	1.0	ug/L	EPA 602
m-Xylene	<1.0	1.0	ug/L	EPA 602
o-Xylene	<1.0	1.0	ug/L	EPA 602

* Detection Limit

SEG Laboratories, Inc.

Louis D. Vachon
Approved

SEG LABORATORIES, INC.

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE02
P
PROJECT: E-
Report Date: 15 M

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME		REC
PURGE WELL EFFLUENT	Aqueous	11 MAY 92		12 M
CONSTITUENT	RESULT	*PQL	UNITS	MET
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA
Toluene	4.0	1.0	ug/L	EPA
Ethylbenzene	<1.0	1.0	ug/L	EPA
Chlorobenzene	<1.0	1.0	ug/L	EPA
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA
p-Xylene	<1.0	1.0	ug/L	EPA
m-Xylene	<1.0	1.0	ug/L	EPA
o-Xylene	<1.0	1.0	ug/L	EPA

* Practical Quantitation Limit

SEG Laboratories, Inc.

Lori A. Vachon
Approved

SEG LABORATORIES, INC.

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Lab Number: SE02523-
Page
PROJECT: E-041
Report Date: 15 MAY

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED DATE/TIME	RECEIVE
MW-8	Aqueous	11 MAY 92	12 MAY 9

CONSTITUENT	RESULT	*PQL	UNITS	METHOD
PURGEABLE AROMATICS				
Benzene	<1.0	1.0	ug/L	EPA 602
Toluene	<1.0	1.0	ug/L	EPA 602
Ethylbenzene	<1.0	1.0	ug/L	EPA 602
Chlorobenzene	<1.0	1.0	ug/L	EPA 602
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 602
p-Xylene	<1.0	1.0	ug/L	EPA 602
m-Xylene	<1.0	1.0	ug/L	EPA 602
o-Xylene	<1.0	1.0	ug/L	EPA 602

* Practical Quantitation Limit

SEG Laboratories, Inc.

Lori A. Vachon
Approved

SEG
LABORATORIES, INC.
A DLZ Company
COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE02399

Received: 28 APR 92
Reported: 05 MAY 92

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE02399-1	MW-4	24 APR 92
SE02399-2	MW-5	24 APR 92
SE02399-3	MW-6	24 APR 92
SE02399-4	ANNEX BLDG. PURGE EFF.	24 APR 92
SE02399-5	MW-10	24 APR 92

PARAMETER	SE02399-1	SE02399-2	SE02399-3	SE02399-4	SE02399-5
BTEX COMPOUNDS					
Benzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0

Benzene value for Oil House Purge Effluent was confirmed in duplicate using separate vials.

.200 Conrad Industrial Drive
Ludington, Michigan 49431
16-843-1877
X: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Analytical Report

Lab I.D. :	50802
Report Date :	02/14/1995
Project :	GMPT - SG1 #5397-10
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario Canada N2V 1C2
Attention :	Mr. Mike Tomka

5 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

MW 14

Sample:	50802-3016	Matrix:	Water
Client Sample:	GW-5397-020795-SSH-401	Location:	
COLLECTED:	02/07/1995 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	02/09/1995 16:27	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Copper (ICAP)	0.047	mg/L	0.025	SW-846 Mtd. 6010	02/10/1995 CG
Lead (GFAA)	0.26	mg/L	0.003	SW-846 Mtd. 7421	02/14/1995 MC
Magnesium (ICAP)	17	mg/L	0.04	SW-846 Mtd. 6010	02/10/1995 CG
Sodium (ICAP)	18	mg/L	1	"	02/10/1995 CG
NON-METALLIC INORGANIC ANALYSIS					
Chloride	1600	mg/L	10	Standard Mtd. 4500 CL-	02/10/1995 DM
Total Phosphorus	0.044	mg/L	0.002	EPA 365.2	02/13/1995 OY

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/14/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

MW14

Sample:	50802-3018	Matrix:	Water
Client Sample:	GW-5397-020795-SSH-401	Location:	
COLLECTED:	02/07/1995 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	02/09/1995 16:27	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
DISSOLVED METALS ANALYSIS					
Copper (ICAP)	ND	mg/L	0.025	SW-846 Mtd. 6010	02/10/1995 CG
Lead (GFAA)	ND	mg/L	0.003	SW-846 Mtd. 7421	02/14/1995 MC
Magnesium (ICAP)	8.1	mg/L	0.2	SW-846 Mtd. 6010	02/10/1995 CG
Sodium (ICAP)	18	mg/L	1	"	02/10/1995 CG

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/14/1995

Lab Reg # 50802

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech Analytical Labs

REFERENCE NUMBER: 5397

PROJECT NAME: GM Metal Castings

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S. Havemeyer

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	Lead	Chloride	Sodium	Phosphorus	Copper	Magnesium	REMARKS
1	2/7/95		GW-5397-020795-SSH-401	water	43	X	X	X	X	X	X	
2	2/7/95		GW-5397-020795-SSH-402	water	43	X	X	X	X	X	X	
	2/7/95		GW-5397-020795-SSH-401	water	1	X		X		X	X	
	2/7/95		GW-5397-020795-SSH-402	water	1	X		X		X	X	
												Note: dissolved metals requires lab filtering

TOTAL NUMBER OF CONTAINERS 8

RELINQUISHED BY: 1. [signature]	DATE: 2/8/95 TIME: 1600	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 0743059102

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

1093

SAMPLE TEAM: SSH, TAH

RECEIVED FOR LABORATORY BY:

DATE: TIME:

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Rec'd CRA
JAN 19 1995

Analytical Report

Lab I.D. :	46699
Report Date :	01/11/1995
Project :	GMPT - SG1 #5397-10
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario Canada N2V 1C2
Attention :	Mr. Mike Tomka

5 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

MW14

Conestoga Rovers & Associates

Sample:	46699-7412	Matrix:	Water
Client Sample:	GW-5397-121994-SSH-107	Location:	
COLLECTED:	12/19/1994 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	12/22/1994 09:53	Sampled By:	S S H

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/L	1	SW-846 Mtd. 8260	12/30/1994 DL
Toluene	ND	ug/L	1	"	12/30/1994 DL
Ethylbenzene	ND	ug/L	1	"	12/30/1994 DL
Xylenes (Total)	ND	ug/L	3	"	12/30/1994 DL
GC/MS VOLATILE ORGANIC					
Methyl Tertiary Butyl Ether	ND	ug/L	50	SW-846 Mtd. 8260	12/30/1994 DL
1,2-Dichloroethane	ND	ug/L	1	"	12/30/1994 DL
1,2-Dibromoethane	ND	ug/L	1	"	12/30/1994 DL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/11/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

MW15

Sample:	46699-7413	Matrix:	Water
Client Sample:	GW-5397-121994-SSH-108	Location:	
COLLECTED:	12/19/1994 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	12/22/1994 09:53	Sampled By:	S S H

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Copper (ICAP)	0.19	mg/L	0.02	SW-846 Mtd. 6010	12/30/1994 JJB
Lead (ICAP)	1.0	mg/L	0.03	"	12/30/1994 JJB
Magnesium (ICAP)	36	mg/L	0.04	"	12/30/1994 JJB
Sodium (ICAP)	21	mg/L	1	"	12/30/1994 JJB
NON-METALLIC INORGANIC ANALYSIS					
Chloride	50	mg/L	10	Standard Mtd. 4500 CL-	01/06/1995 DM
Total Phosphorus	0.060	mg/L	0.002	EPA 365.2	01/09/1995 CY
VOLATILE AROMATIC HYDRO.					
Benzene	130	ug/L	100	SW-846 Mtd. 8260	12/30/1994 DL
Toluene	1300	ug/L	100	"	12/30/1994 DL
Ethylbenzene	1500	ug/L	100	"	12/30/1994 DL
Xylenes (Total)	5200	ug/L	300	"	12/30/1994 DL
GC/MS VOLATILE ORGANIC					
Methyl Tertiary Butyl Ether	ND	ug/L	5000	SW-846 Mtd. 8260	12/30/1994 DL
1,2-Dichloroethane	ND	ug/L	100	"	12/30/1994 DL
1,2-Dibromoethane	ND	ug/L	100	"	12/30/1994 DL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/11/1995

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech Lab Ref No 46699

REFERENCE NUMBER: 5397

PROJECT NAME: GMPT - Saginaw Grey Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S Hockemeyer

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: BTEX	methyl-tert-butyl-ether	1,2-dichloroethane	ethylene bromide	copper	phosphorus	chloride	sodium	magnesium	lead	REMARKS
1	12/19/94		GW-5397-121994-SSH-107	water	2	X	X	X	X							
2	12/19/94		GW-5397-121994-SSH-108	water	3	X	X	X	X	X	X	X	X	X	X	1,2 Dibromoethane
3	12/19/94		GW-5297-121994-SSH-109	water	3	X	X	X	X	X	X	X	X	X	X	
4	12/20/94		GW-5397-122094-SSH-110	water	2	X	X	X	X							
5	12/20/94		trip blanks	water	2	X	X	X	X							
	12/23															
																10-40 ml VOA
																2-500 HNO3
																4°C
			TOTAL NUMBER OF CONTAINERS		12											

RELINQUISHED BY: 1. [signature]	DATE: 12/20 TIME: 12/20/94	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9706310493

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

SAMPLE TEAM: SSH, DFC

RECEIVED FOR LABORATORY BY:

DATE: 12/22/94 TIME: 800 AM

1001 (EC S)-APRIL 29, 93-REV 0-(C)(E-01)

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

5077

a Division of
CT&E Environmental
Services Inc

Analytical Report

Lab I.D. :	**46635**
Report Date :	**01/05/1995**
Project :	**GM-Grey Iron #5663**
Client :	**Conestoga Rovers & Associates**
	651 Colby Drive
	Waterloo, Ontario
	Canada N2V 1C2
Attention :	**Mr. Mike Tomka**

11 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

SB-1

Conestoga Rovers & Associates

Sample:	46635-7062	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-1	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	100	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.4	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

SB-2

Sample:	46635-7063	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-2	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 239.2	01/04/1995 MC
Note: Results are reported on a dry weight basis.					
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.5	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

SB-3

Conestoga Rovers & Associates

Sample:	46635-7064	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-3	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.6	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division c
CT&E Environmentc
Services Inc

Conestoga Rovers & Associates

Sample:	46635-7065	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-4	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

SB-4

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	110	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.1	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

Sample:	46635-7069	Matrix:	Soil
Client Sample:	S-5397-121594-SSH-103	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Oil House 7-9' bgs

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	92.4	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/29/1994 LS
Toluene	ND	ug/kg	10	"	12/29/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/29/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/29/1994 LS

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division o
CT&E Environmenta
Services Inc

Conestoga Rovers & Associates

Sample:	46635-7070	Matrix:	Soil
Client Sample:	S-5397-121694-SSH-104	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH RR Fill 3-5' bgs

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	92.2	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/29/1994 LS
Toluene	ND	ug/kg	10	"	12/29/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/29/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/29/1994 LS
			Note: Results are reported on a dry weight basis.		
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	12/30/1994 TJ
Benzo (a) Pyrene	ND	ug/kg	330	"	12/30/1994 TJ
Benzo (b) Fluoranthene	ND	ug/kg	330	"	12/30/1994 TJ
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	12/30/1994 TJ
Benzo (k) Fluoranthene	ND	ug/kg	330	"	12/30/1994 TJ
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/30/1994 TJ
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	12/30/1994 TJ
Naphthalene	ND	ug/kg	330	"	12/30/1994 TJ
Acenaphthene	ND	ug/kg	330	"	12/30/1994 TJ
Acenaphthylene	ND	ug/kg	330	"	12/30/1994 TJ
Fluorene	ND	ug/kg	330	"	12/30/1994 TJ
Phenanthrene	ND	ug/kg	330	"	12/30/1994 TJ
Anthracene	ND	ug/kg	330	"	12/30/1994 TJ
Fluoranthene	ND	ug/kg	330	"	12/30/1994 TJ
Pyrene	ND	ug/kg	330	"	12/30/1994 TJ
Chrysene	ND	ug/kg	330	"	12/30/1994 TJ
Semi Volatile Extraction	-	-	-	"	12/27/1994 SJ
			Note: Results are reported on a dry weight basis.		

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Lansington, Michigan 49431
616-843-1877
FAX. 616-845-9942

ANATECH Laboratories

a Div... of CT&E Environme... Services

Conestoga Rovers & Associates

Sample:	46635-7071	Matrix:	Soil
Client Sample:	S-5397-121694-SSH-105	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Pipestone

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	92.5	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/29/1994 LS
Toluene	ND	ug/kg	10	"	12/29/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/29/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/29/1994 LS

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

Sample:	46635-7072	Matrix:	Soil
Client Sample:	S-5397-121694-SSH-106	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Fuel Dispenser

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	89.6	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/30/1994 LS
Toluene	ND	ug/kg	10	"	12/30/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/30/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/30/1994 LS

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

Rel. # 46635

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech

REFERENCE NUMBER: 5397

PROJECT NAME: GM Grey Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S. Hoeisenyer

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: BTEX	PNA	Lead	REMARKS
1	12/16/94		S-5397-121394-SSH-SB1	Soil	1		X		
2			" -SB2		1		X		
3			" -SB3		1		X		
4			" -SB4		1		X		
5			" -SB5		1		X		* Hold per request
6			S-5397-121494-SSH-101		1	X			
7			S-5397-121594-SSH-102		1	X			
8			S-5397-121594-SSH-103		1	X			5-120 soil
9			S-5397-121694-SSH-104		1	X	X		6-250 soil
10			" -105		1	X			
11			" -106		1	X			
TOTAL NUMBER OF CONTAINERS					11				

RELINQUISHED BY: 1. [signature]	DATE: 12/16/94 TIME: 1700	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 970631048 2

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

0958

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: [signature]

DATE: 12-19-94 TIME: 1109

1001 (FORM) APRIL 09, 93 REV 0 (CVF-01)

Appendix 9.5
Available Laboratory Analytical Data
Former Oil House USTs #2 & #3

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-2-93
DATE ANALYZED: 6-3-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0736-50

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	BOTTOM #2	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-2-93
DATE ANALYZED: 6-3-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0736-50

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	BOTTOM #7	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-3-93
DATE ANALYZED: 6-3-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0736-50

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	BOTTOM #8	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-2/3-93
DATE ANALYZED: 6-3-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0736-50

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	COMPOSITE WALLS	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-4-93
DATE ANALYZED: 6-4-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0762

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	TRANSFER LINE COMPOSITE	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

PROJECT:
BIERLEIN ENVIRONMENTAL SERVICE
2903 SOUTH GRAHAM
P. O. BOX 8078
SAGINAW, MI 48708-8078

DATE RECEIVED: 6-3-93
DATE ANALYZED: 6-3-93
JOB #: 93-471
REPORT DATED: 6-4-93

LAB ID: SOIL SAMPLES - GREY IRON FOUNDRY OIL HOUSE, SAGINAW

LAB #: 93-0750

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter	STOCKPILE COMPOSITE	DL
Naphthalene	<0.33 ppm	.33 ppm
Acenaphthylene	<0.33 ppm	.33 ppm
Acenaphthene	<0.33 ppm	.33 ppm
Fluorene	<0.33 ppm	.33 ppm
Phenanthrene	<0.33 ppm	.33 ppm
Anthracene	<0.33 ppm	.33 ppm
Fluoranthene	<0.33 ppm	.33 ppm
Pyrene	<0.33 ppm	.33 ppm
Benzo(a)anthracene	<0.33 ppm	.33 ppm
Chrysene	<0.33 ppm	.33 ppm
Benzo(b)fluoranthene	<0.33 ppm	.33 ppm
Benzo(k)fluoranthene	<0.33 ppm	.33 ppm
Benzo(a)pyrene	<0.33 ppm	.33 ppm
Dibenzo(a,h)anthracene	<0.33 ppm	.33 ppm
Benzo(ghi)perylene	<0.33 ppm	.33 ppm
Indeno(1,2,3-cd)pyrene	<0.33 ppm	.33 ppm

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.

Appendix 9.6
Available Laboratory Analytical Data
Former Gasoline UST #4

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. DOUGLAS E DROUARE

Location	Lab No	Time Sampled	Date Sampled	Date Received
EXCAVATED FILL, NEW TANK INSTAL E-418B	5	0	11/27/89	11/28/89

ANALYTICAL REPORT
DATE REPORTED 12/06/89

TEST	UNITS	LAB NO. 5
Petroleum Hydrocarbons	ug/kg	<30
Lead	ug/kg	20
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
p-Xylene	ug/kg	<10
m-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10

PURGE WELL REMEDIATION PROGRAM
Saginaw ~~Grey~~ ~~Iron~~ ~~Foundry~~
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

TEST	UNITS	LAB No. 5
POLYNUCLEAR AROMATIC HYD.		
Acenaphthene	ug/kg	<100
Acenaphthylene	ug/kg	<100
Anthracene	ug/kg	<100
Benzo(a)anthracene	ug/kg	<100
Benzo(a)pyrene	ug/kg	<100
Benzo(b)fluoranthene	ug/kg	<100
Benzo(ghi)perylene	ug/kg	<100
Benzo(k)fluoranthene	ug/kg	<100
Chrysene	ug/kg	<100
Dibenzo(a,h)anthracene	ug/kg	<100
Fluoranthene	ug/kg	<100
Fluorene	ug/kg	<100
Ideno(1,2,3-cd)pyrene	ug/kg	<100
Naphthalene	ug/kg	<100
Phenanthrene	ug/kg	<100
Pyrene	ug/kg	<100

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC

PURGE WELL REMEDIATION PROGI
Saginaw Grey Iron Foundry.
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
PIT DISCHARGE WATER	E-418B	312	0	12/05/89	12/07/89

ANALYTICAL REPORT
DATE REPORTED 01/03/90

TEST	UNITS	LAB NO. 312
Arsenic	ug/L	<0.002
Barium	ug/L	<0.025
Cadmium	ug/L	<0.005
Chromium	ug/L	<0.008
Copper	ug/L	<0.005
Lead	ug/L	<0.010
Mercury	ug/L	<0.0005
Selenium	ug/L	0.011
Silver	ug/L	<0.008
Zinc	ug/L	0.032
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
p-Xylene	ug/L	<1.0
m-Xylene	ug/L	<1.0
o-Xylene	ug/L	<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
~~Service Garage~~
Saginaw, Michigan
GTL Job No. E-0418B

Page:

TEST	UNITS	LAB No.312
PURGEABLE HALOCARBONS		EPA 601
Dichlorodifluoroethane	ug/L	<5.0
Chloroethane	ug/L	<5.0
Vinyl chloride	ug/L	<5.0
Bromoethane	ug/L	<5.0
Chloroethane	ug/L	<1.0
Trichlorofluoroethane	ug/L	<1.0
1,1-Dichloroethene	ug/L	<1.0
Methylene chloride	ug/L	<1.0
trans-1,2-Dichloroethene	ug/L	<1.0
1,1-Dichloroethane	ug/L	<1.0
Chloroform	ug/L	<1.0
1,1,1-Trichloroethane	ug/L	<1.0
Carbon tetrachloride	ug/L	<1.0
1,2-Dichloroethane	ug/L	<1.0
Trichloroethene	ug/L	<1.0
1,2-Dichloropropane	ug/L	<1.0
Bromodichloromethane	ug/L	<1.0
2-Chloroethylvinyl ether	ug/L	<5.0
cis-1,3-Dichloropropene	ug/L	<1.0
trans-1,3-Dichloropropene	ug/L	<1.0
1,1,2-Trichloroethane	ug/L	<1.0
Tetrachloroethene	ug/L	<1.0
Dibromochloromethane	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
Bromoform	ug/L	<1.0
1,1,2,2-Tetrachloroethane	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

#11

Location		Lab No	Time Sampled	Date Sampled	Date Received
No. WALL	E-418B	382	0	12/06/89	12/08/89
So. WALL	E-418B	383	0	12/06/89	12/08/89
E. WALL	E-418B	384	0	12/06/89	12/08/89
W. WALL	E-418B	385	0	12/06/89	12/08/89

ANALYTICAL REPORT
DATE REPORTED 01/17/90

TEST	UNITS	LAB NO. 382	LAB NO. 383	LAB NO. 384	LAB NO. 385
Total Solids	%	34	81	46	85
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION
Saginaw Grey Iron Found.,
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
COMP. N.S.E.W WALL	E-418B	386	0	12/06/89	12/08/89

ANALYTICAL REPORT
DATE REPORTED 01/19/90

TEST	UNITS	LAB NO. 386
Petroleum Hydrocarbons	ug/kg	<10
Arsenic	ug/kg	2.9
Barium	ug/kg	19
Cadmium	ug/kg	0.70
Chromium	ug/kg	4.0
Copper	ug/kg	16
Lead	ug/kg	9.0
Mercury	ug/kg	0.020
Selenium	ug/kg	0.09
Silver	ug/kg	<0.30
Zinc	ug/kg	11
Total Solids	%	66
PURGEABLE HALOCARBONS		EPA 8010
Dichlorodifluoromethane	ug/kg	<50
Chloromethane	ug/kg	<50
Vinyl chloride	ug/kg	<50
Bromomethane	ug/kg	<50
Chloroethane	ug/kg	<10
Trichlorofluoromethane	ug/kg	<10
1,1-Dichloroethene	ug/kg	<10
Methylene chloride	ug/kg	<10
trans-1,2-Dichloroethene	ug/kg	<10
1,1-Dichloroethane	ug/kg	<10
Chloroform	ug/kg	<10
1,1,1-Trichloroethane	ug/kg	<10

Soil I.D. No. 386 (EPA 8010 - Continued)

Carbon tetrachloride	ug/kg	<10
1,2-Dichloroethane	ug/kg	<10
Trichloroethene	ug/kg	<10
1,2-Dichloropropane	ug/kg	<10
Bromodichloromethane	ug/kg	<10
2-Chloroethylvinyl ether	ug/kg	<50
cis-1,3-Dichloropropene	ug/kg	<10
trans-1,3-Dichloropropene	ug/kg	<10
1,1,2-Trichloroethane	ug/kg	<10
Tetrachloroethene	ug/kg	<10
Dibromochloromethane	ug/kg	<10
Chlorobenzene	ug/kg	<10
Bromoform	ug/kg	<10
1,1,2,2-Tetrachloroethane	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
PCB COMPOUNDS:		
PCB-1016	ug/kg	<1.0
PCB-1221	ug/kg	<1.0
PCB-1232	ug/kg	<1.0
PCB-1242	ug/kg	<1.0
PCB-1248	ug/kg	<1.0
PCB-1254	ug/kg	<1.0
PCB-1260	ug/kg	<1.0

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
~~Service Garage~~
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
N WALL S MAINT.	E-418B	10901	0	12/23/89	12/28/89
S WALL S MAINT.	E-418B	10902	0	12/23/89	12/28/89
E WALL S MAINT.	E-418B	10903	0	12/23/89	12/28/89
W WALL S MAINT.	E-418B	10904	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10901	LAB NO. 10902	LAB NO. 10903	LAB NO. 10904
		N	S	E	W
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	150	<10	53	33
Toluene	ug/kg	44	<10	13	13
Ethylbenzene	ug/kg	11	<10	<10	13
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	110	<10	<10	43
m-Xylene	ug/kg	82	<10	16	91
o-Xylene	ug/kg	78	<10	14	15

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
FILL PIPE, S. MAINT.	E-418B	10905	0	12/23/89	12/28/89
EXCAVATED FILL, S. MAINT.	E-418B	10906	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10905	LAB NO. 10906
Lead	ug/kg		10
PURGEABLE AROMATICS		EPA 8020	EPA 8020
Benzene	ug/kg	100	<10
Toluene	ug/kg	170	<10
Ethylbenzene	ug/kg	73	<10
Chlorobenzene	ug/kg	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10
p-Xylene	ug/kg	15	<10
m-Xylene	ug/kg	25	<10
o-Xylene	ug/kg	18	<10

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC

PURGE WELL REMEDIATION
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

Location	Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER FLOOR, S. MAINT. E-418B	10907	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10907
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	300
Toluene	ug/L	260
Ethylbenzene	ug/L	<100
Chlorobenzene	ug/L	<100
1,3-Dichlorobenzene	ug/L	<100
1,4-Dichlorobenzene	ug/L	<100
1,2-Dichlorobenzene	ug/L	<100
p-Xylene	ug/L	550
m-Xylene	ug/L	1500
o-Xylene	ug/L	790

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROG
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

INSIDE GARAGE
HAND AUGERS

Location	Lab No	Time Sampled	Date Sampled	Date Received
SERVICE GARAGE HA3 - S3 E-418B	11641	0	01/25/90	01/29/90
SERVICE GARAGE HA4 - S6 E-418B	11642	0	01/25/90	01/29/90
SERVICE GARAGE HA6 - S1 E-418B	11643	0	01/25/90	01/29/90

ANALYTICAL REPORT
DATE REPORTED 01/31/90

TEST	UNITS	LAB NO. 11641	LAB NO. 11642	LAB NO. 11643
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10
Toluene	ug/kg	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10
PURGEABLE HALOCARBONS			EPA 8010	EPA 8010
Dichlorodifluoromethane	ug/kg	<50	<50	<50
Chloromethane	ug/kg	<50	<50	<50
Vinyl chloride	ug/kg	<50	<50	<50
Bromomethane	ug/kg	<50	<50	<50
Chloroethane	ug/kg	<10	<10	<10
Trichlorofluoromethane	ug/kg	<10	<10	<10
1,1-Dichloroethene	ug/kg	<10	<10	<10
Methylene chloride	ug/kg	<10	<10	<10

Soil I.D. No.		11641	11642	11643 (EPA 8010 - Continued)
trans-1,2-Dichloroethene	ug/kg	<10	<10	<10
1,1-Dichloroethane	ug/kg	<10	<10	<10
Chloroform	ug/kg	<10	<10	<10
1,1,1-Trichloroethane	ug/kg	<10	<10	<10
Carbon tetrachloride	ug/kg	<10	<10	<10
1,2-Dichloroethane	ug/kg	<10	<10	<10
Trichloroethene	ug/kg	<10	<10	<10
1,2-Dichloropropane	ug/kg	<10	<10	<10
Bromodichloromethane	ug/kg	<10	<10	<10
2-Chloroethylvinyl ether	ug/kg	<50	<50	<50
cis-1,3-Dichloropropene	ug/kg	<10	<10	<10
trans-1,3-Dichloropropene	ug/kg	<10	<10	<10
1,1,2-Trichloroethane	ug/kg	<10	<10	<10
Tetrachloroethene	ug/kg	<10	<10	<10
Dibromochloromethane	ug/kg	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10
Bromoform	ug/kg	<10	<10	<10
1,1,2,2-Tetrachloroethane	ug/kg	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10

PROJECT MANAGER Lori A Vachon
LORI A VACHON

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

well inst.

Location		Lab No	Time Sampled	Date Sampled	Date Received
B4 MW7 S2	E-418B	12335	0	02/07/90	02/09/90
B6 MW8 S2	E-418B	12336	0	02/07/90	02/09/90

ANALYTICAL REPORT
DATE REPORTED 02/13/90

TEST	UNITS	LAB NO. 12335	LAB NO. 12336
PURGEABLE AROMATICS		EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10
Toluene	ug/kg	<10	<10
Ethylbenzene	ug/kg	<10	<10
Chlorobenzene	ug/kg	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10
p-Xylene	ug/kg	<10	<10
m-Xylene	ug/kg	<10	<10
o-Xylene	ug/kg	<10	<10

PROJECT MANAGER Lori A. Vachon
LORI A VACHON

* Observed below detection level

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-7	SERVICE GARAGE	E-418B	12739	0	02/21/90	02/22/90
MW-8	SERVICE GARAGE	E-418B	12740	0	02/21/90	02/22/90

ANALYTICAL REPORT
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12739	LAB NO. 12740
PURGEABLE AROMATICS		EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-9 SERVICE GARAGE	E-418B	12741	0	02/21/90	02/22/90

ANALYTICAL REPORT
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12741
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
p-Xylene	ug/L	<1.0
m-Xylene	ug/L	<1.0
o-Xylene	ug/L	<1.0

PROJECT MANAGER Carol L. Sutton
ORGANIC SECTION LEADER

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

	Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-7	E-418B	13019	0	03/07/90	03/08/90
MW-8	E-418B	13020	0	03/07/90	03/08/90
MW-9	E-418B	13021	0	03/07/90	03/08/90

ANALYTICAL REPORT
DATE REPORTED 03/12/90

TEST	UNITS	LAB NO. 13019	LAB NO. 13020	LAB NO. 13021
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0

PROJECT MANAGER
ORGANIC SECTION LEADER

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER MILLISION

Location			Lab No	Time Sampled	Date Sampled	Date Received
NORTHWALL	SERVICE GARAGE	E-418B	13145	0	03/09/90	03/13/90
EAST WALL	SERVICE GARAGE	E-418B	13146	0	03/09/90	03/13/90
WEST WALL	SERVICE GARAGE	E-418B	13147	0	03/09/90	03/13/90

ANALYTICAL REPORT
DATE REPORTED 03/16/90

TEST	UNITS	LAB NO. 13145	LAB NO. 13146	LAB NO. 13147
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10
Toluene	ug/kg	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10

PROJECT MANAGER Carol L Fulton
ORGANIC SECTION LEADER

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PR
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-7	E-418B	15730	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15727	LAB NO. 15728	LAB NO. 15729	LAB NO. 15730
PURGEABLE AROMATICS					EPA 602
Benzene	ug/L				<1.0
Toluene	ug/L				<1.0
Ethylbenzene	ug/L				<1.0
Chlorobenzene	ug/L				<1.0
1,3-Dichlorobenzene	ug/L				<1.0
1,4-Dichlorobenzene	ug/L				<1.0
1,2-Dichlorobenzene	ug/L				<1.0
p-Xylene	ug/L				<1.0
m-Xylene	ug/L				<1.0
o-Xylene	ug/L				<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-8	E-418B	15731	0	5/23/90	05/24/90
MW-9	E-418B	15732	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15731	LAB NO. 15732	LAB NO. 15733	LAB NO. 15734
PURGEABLE AROMATICS		EPA 602	EPA 602		
Benzene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
p-Xylene	ug/L	<1.0	<1.0		
m-Xylene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		

PURGE WELL REMEDIATION PROG
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location	Lab No	Time Sampled	Date Sampled	Date Received
SERVICE GARAGE PURGE WELL E-418B	18179	0	08/01/90	08/03/90
MW-9 E-418B	18180	0	08/01/90	08/03/90
MW-8 E-418B	18181	0	08/01/90	08/03/90
MW-7 E-418B	18182	0	08/01/90	08/03/90

ANALYTICAL REPORT
DATE REPORTED 08/08/90

TEST	UNITS	LAB NO. 18179	LAB NO. 18180	LAB NO. 18181	LAB NO. 18182
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRA
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-7	SERVICE	E-418 B	20721	0	10/15/90	10/17/90
MW-8	SERVICE	E-418 B	20722	0	10/15/90	10/17/90
MW-9	SERVICE	E-418 B	20723	0	10/15/90	10/17/90
PURGE SYSTEM	SERVICE	E-418 B	20724	0	10/15/90	10/17/90

ANALYTICAL REPORT
DATE REPORTED 10/31/90

TEST	UNITS	LAB NO. 20721	LAB NO. 20722	LAB NO. 20723	LAB NO. 20724
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vachon

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION
Saginaw Grey Iron Found
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-7	E-418 B	21821	0	11/19/90	11/20/90
MW-8	E-418 B	21822	0	11/19/90	11/20/90
MW-9	E-418 B	21823	0	11/19/90	11/20/90
PURGE SYSTEM SERVICE GARAGE	E-418 B	21824	0	11/19/90	11/20/90

ANALYTICAL REPORT
DATE REPORTED 12/11/90

TEST	UNITS	LAB NO. 21821	LAB NO. 21822	LAB NO. 21823	LAB NO. 21824
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vail

SEG LABORATORIES, INC

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

GED-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

PROJECT NUMBER

Location		Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER FLOOR, S. MAINT.	E-418	10907	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10907
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	300
Toluene	ug/L	260
Ethylbenzene	ug/L	<100
Chlorobenzene	ug/L	<100
1,3-Dichlorobenzene	ug/L	<100
1,4-Dichlorobenzene	ug/L	<100
1,2-Dichlorobenzene	ug/L	<100
p-Xylene	ug/L	550
o-Xylene	ug/L	1500
c-Xylene	ug/L	790

COPY

SEG LABORATORIES, INC.
1120 HAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

PROJECT NUMBER

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
N WALL S MAINT.	E-418	10901	0	12/23/89	12/28/89
S WALL S MAINT.	E-418	10902	0	12/23/89	12/28/89
E WALL S MAINT.	E-418	10903	0	12/23/89	12/28/89
W WALL S MAINT.	E-418	10904	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10901	LAB NO. 10902	LAB NO. 10903	LAB NO. 10904
		N	S	E	W
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	150	<10	53	33
Toluene	ug/kg	44	<10	13	13
Ethylbenzene	ug/kg	11	<10	<10	13
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	110	<10	<10	43
m-Xylene	ug/kg	82	<10	16	91
o-Xylene	ug/kg	78	<10	14	15

COPY

Location		Lab No	Time Sampled	Date Sampled	Date Received
FILL PIPE, S. MAINT.	E-418	10905	0	12/23/89	12/28/89
EXCAVATED FILL. S. MAINT.	E-418	10906	0	12/23/89	12/28/89

ANALYTICAL REPORT
DATE REPORTED 01/10/90

TEST	UNITS	LAB NO. 10905	LAB NO. 10906
Lead	ug/kg		10
PURGEABLE AROMATICS		EPA 8020	EPA 8020
Benzene	ug/kg	100	<10
Toluene	ug/kg	170	<10
Ethylbenzene	ug/kg	73	<10
Chlorobenzene	ug/kg	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10
p-Xylene	ug/kg	15	<10
m-Xylene	ug/kg	25	<10
o-Xylene	ug/kg	18	<10

PROJECT MANAGER Lori A Vachon
LORI A. VACHON

Appendix 9.6
Available Analytical Data
UST #4 G.I.

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc

Rec'd CRA

JAN 19 1995

Analytical Report

Lab I.D. :	**46699**
Report Date :	**01/11/1995**
Project :	**GMPT - SG1 #5397-10**
Client :	**Conestoga Rovers & Associates**
	651 Colby Drive
	Waterloo, Ontario
	Canada N2V 1C2
Attention :	**Mr. Mike Tomka**

5 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

MW17

Sample:	46699-7415	Matrix:	Water
Client Sample:	GW-5397-122094-SSH-110	Location:	
COLLECTED:	12/20/1994 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	12/22/1994 09:53	Sampled By:	S S H

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/L	1	SW-846 Mtd. 8260	12/30/1994 DL
Toluene	2	ug/L	1	"	12/30/1994 DL
Ethylbenzene	ND	ug/L	1	"	12/30/1994 DL
Xylenes (Total)	ND	ug/L	3	"	12/30/1994 DL
GC/MS VOLATILE ORGANIC					
Methyl Tertiary Butyl Ether	ND	ug/L	50	SW-846 Mtd. 8260	12/30/1994 DL
1,2-Dichloroethane	ND	ug/L	1	"	12/30/1994 DL
1,2-Dibromoethane	ND	ug/L	1	"	12/30/1994 DL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/11/1995

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech Lab Ref No 46699

REFERENCE NUMBER: 5397

PROJECT NAME: GMPT - Saginaw Grey Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S. Horsemeyer

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: BTEX	methyl-tert-butyl-ether	1,2-dichloroethane	ethylene bromide	copper	phosphorus	chloride	sodium	magnesium	lead	REMARKS
1	12/19/94		GW-5397-121994-SSH-607	water	2	X	X	X	X							
2	12/19/94		GW-5397-121994-SSH-108	water	3	X	X	X	X	X	X	X	X	X	X	1,2 Dibromoethane
3	12/19/94		GW-5297-121994-SSH-109	water	3	X	X	X	X	X	X	X	X	X	X	
4	12/20/94		GW-5397-122094-SSH-110	water	2	X	X	X	X							
5	12/20/94		trip blanks	water	2	X	X	X	X							
	12/20/94															

10-40 ml VOA
2-500 HNO_3
42°F

TOTAL NUMBER OF CONTAINERS: 12

RELINQUISHED BY: 1. [signature]	DATE: 1300 TIME: 12/20/94	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9706310493

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

SAMPLE TEAM: SSH, DFC

RECEIVED FOR LABORATORY BY:

DATE: 12/22/94 TIME: 800 AM

1001 (FC S)-APRIL 29, 93-REV.0-(C)(F-01)

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

5077
a Division of
CT&E Environmental
Services, Inc.

Analytical Report

Lab I.D. :	**46635**
Report Date :	**01/05/1995**
Project :	**GM-Grey Iron #5663**
Client :	**Conestoga Rovers & Associates**
	651 Colby Drive
	Waterloo, Ontario
	Canada N2V 1C2
Attention :	**Mr. Mike Tomka**

11 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

SB-1

Sample:	46635-7062	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-1	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	100	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.4	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

SB-2

Sample:	46635-7063	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-2	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.5	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

SB-3

Sample:	46635-7064	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-3	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.6	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

Sample:	46635-7065	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-4	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

SB-4

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	110	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.1	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division o-
CT&E Environmenta
Services Inc

Conestoga Rovers & Associates

Service 9-11' bgs

Sample:	46635-7068	Matrix:	Soil
Client Sample:	S-5397-121594-SSH-102	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	82.8	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/29/1994 LS
Toluene	ND	ug/kg	10	"	12/29/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/29/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/29/1994 LS

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

Kel. # 46635

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech

REFERENCE NUMBER: 5397

PROJECT NAME: GM Grey Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S. Hoeksema

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: BTEX	PNA	Lead	REMARKS
1	12/16/94		S-5397-121394-SSH-SB1	Soil	1			X	
2			" -SB2		1			X	
3			" -SB3		1			X	
4			" -SB4		1			X	
5			" -SB5		1			X	* Hold per request
6			S-5397-121494-SSH-101		1	X			
7			S-5397-121594-SSH-102		1	X			
8			S-5397-121594-SSH-103		1	X			5-124 Soil
9			S-5397-121694-SSH-104		1	X	X		6-250 Soil
10			" -105		1	X			
11			" -106		1	X			
TOTAL NUMBER OF CONTAINERS					11				

RELINQUISHED BY: 1. [signature]	DATE: 12/16/94 TIME: 1700	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 970631048 2

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

0958

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: [signature]

DATE: 12-19-94 TIME: 409

1001 (FOR[illegible])-APRIL 29, 93-REV 0-(C)(E-01)

Appendix 9.7
Available Laboratory Analytical Data
Former Garage Annex UST #5

SEG COPY

SEG LABORATORIES, INC.

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

PROJECT NUMBER

Location		Lab No	Time Sampled	Date Sampled	Date Received
N WALL N MAINT BLDG	E-418	10686	0	12/15/89	12/19/89
PUMP N MAINT BLDG	E-418	10687	0	12/15/89	12/19/89
S WALL N MAINT BLDG	E-418	10688	0	12/15/89	12/19/89
W WALL N MAINT BLDG	E-418	10689	0	12/15/89	12/19/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10686 N	LAB NO. 10687 Pump	LAB NO. 10688 S	LAB NO. 10689 W
Lead	ug/kg	<0.40	24	35	
Total Solids	%	91	94	94	98
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

COPY

Location		Lab No	Time Sampled	Date Sampled	Date Received
E WALL N MAINT BLDG	E-418	10690	0	12/15/89	12/19/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10690
Lead	ug/kg	
Total Solids	%	97
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
p-Xylene	ug/kg	<10
m-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10

COPY

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

PROJECT NUMBER

Location		Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER N MAINT BLDG	E-418	10691	0	12/15/89	12/19/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10691
Lead	ug/L	0.032
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	180
Toluene	ug/L	250
Ethylbenzene	ug/L	18
Chlorobenzene	ug/L	<5.0
1,3-Dichlorobenzene	ug/L	<5.0
1,4-Dichlorobenzene	ug/L	<5.0
1,2-Dichlorobenzene	ug/L	<5.0
p-Xylene	ug/L	44
m-Xylene	ug/L	150
o-Xylene	ug/L	160

CLEAN UP & RETEST
(DO NOT PUT IN MONITOR WELLS)

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

A.4. Reports of Well Development/Sampling (MW4 through MW6)

A.6. Analytical Laboratory Test Results

LOG NO: SE00263

Received: 03 JUL 91
Reported: 22 JUL 91

MR. CHRISTOPHER WILLISTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , AQ SAMPLES
SE00263-6	MW-8
SE00263-7	MW-9
SE00263-8	PURGE WELL EFF. SERVICE GARAGE

PARAMETER	SE00263-6	SE00263-7	SE00263-8
PURGEABLE AROMATICS			
Benzene, ug/L	<1.0	<1.0	<1.0
Toluene, ug/L	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0
Chlorobenzene, ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0

Lori A Vasko
Approved

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
N WALL N MAINT BLDG	E-418B	10686	0	12/15/89	12/19/89
PUMP N MAINT BLDG	E-418B	10687	0	12/15/89	12/19/89
S WALL N MAINT BLDG	E-418B	10688	0	12/15/89	12/19/89
W WALL N MAINT BLDG	E-418B	10689	0	12/15/89	12/19/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10686	LAB NO. 10687	LAB NO. 10688	LAB NO. 10689
Lead	ug/kg	<0.40	24	35	
Total Solids	%	91	94	94	98
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGLEHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
GROUNDWATER N MAINT BLDG	E-418B	10691	0	12/15/89	12/19/89

ANALYTICAL REPORT
DATE REPORTED 01/05/90

TEST	UNITS	LAB NO. 10691
Lead	ug/L	0.032
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	160
Toluene	ug/L	250
Ethylbenzene	ug/L	18
Chlorobenzene	ug/L	<5.0
1,3-Dichlorobenzene	ug/L	<5.0
1,4-Dichlorobenzene	ug/L	<5.0
1,2-Dichlorobenzene	ug/L	<5.0
p-Xylene	ug/L	44
m-Xylene	ug/L	150
o-Xylene	ug/L	160

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGR
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GIL Job No. E-0418B

Page:

GEO-TEST, LTD
7970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location	Lab No	Time Sampled	Date Sampled	Date Received
B2 MW5 S1 E-418B	12334	0	02/07/90	02/09/90

ANALYTICAL REPORT
DATE REPORTED 02/13/90

TEST	UNITS	LAB NO. 12334
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
m-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10
p-Xylene	ug/kg	<10

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PRO
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-4 ANNEX BLDG	E-418B	12736	0	02/21/90	02/22/90

ANALYTICAL REPORT
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12736
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	<1.0
Toluene	ug/L	<1.0
Ethylbenzene	ug/L	<1.0
Chlorobenzene	ug/L	<1.0
1,3-Dichlorobenzene	ug/L	<1.0
1,4-Dichlorobenzene	ug/L	<1.0
1,2-Dichlorobenzene	ug/L	<1.0
p-Xylene	ug/L	<1.0
m-Xylene	ug/L	<1.0
o-Xylene	ug/L	<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GIL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-5 ANNEX BLDG	E-418B	12737	0	02/21/90	02/22/90
MW-6 ANNEX BLDG	E-418B	12738	0	02/21/90	02/22/90

ANALYTICAL REPORT
DATE REPORTED 02/26/90

TEST	UNITS	LAB NO. 12737	LAB NO. 12738
PURGEABLE AROMATICS		EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

EO-TEST, LTD.
970 BAY ROAD
SAGINAW, MI 48603
R. DOUGLAS E DROUARE

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-4 ANNEX BLDG E-418	13016	0	03/07/90	03/08/90
MW-5 ANNEX BLDG E-418	13017	0	03/07/90	03/08/90
MW-6 ANNEX BLDG E-418	13018	0	03/07/90	03/08/90

ANALYTICAL REPORT
DATE REPORTED 03/12/90

TEST	UNITS	LAB NO. 13016	LAB NO. 13017	LAB NO. 13018
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GIL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location		Lab No	Time Sampled	Date Sampled	Date Received
PERCHED GW ANNEX BLDG	E-418B	13065	0	03/08/90	03/08/90

ANALYTICAL REPORT
DATE REPORTED 03/09/90

TEST	UNITS	LAB NO. 13065
PURGEABLE AROMATICS		EPA 602
Benzene	ug/L	34
Toluene	ug/L	68
Ethylbenzene	ug/L	140
Chlorobenzene	ug/L	<10
1,3-Dichlorobenzene	ug/L	<10
1,4-Dichlorobenzene	ug/L	<10
1,2-Dichlorobenzene	ug/L	<10
m-Xylene	ug/L	61
o-Xylene	ug/L	110
p-Xylene	ug/L	220

PROJECT MANAGER Lou A Vachon

SEG LABORATORIES, INC.

SEG LABORATORIES, INC.
1120 MAY STREET
LANSING, MI 48906
PHONE - 517-374-6800

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

PROJECT NUMBER

Location	Lab No	Time Sampled	Date Sampled	Date Received
ANNEX GARAGE	13631	1430	03/27/90	03/27/90

ANALYTICAL REPORT
DATE REPORTED 03/30/90

TEST	UNITS	LAB NO. 13631
Petroleum Hydrocarbons	ug/kg	<10
Arsenic	ug/kg	1.4
Barium	ug/kg	4.7
Cadmium	ug/kg	<0.20
Chromium	ug/kg	4.7
Copper	ug/kg	3.9
Lead	ug/kg	9.3
Mercury	ug/kg	<0.010
Selenium	ug/kg	0.09
Silver	ug/kg	<0.30
Zinc	ug/kg	7.0
PURGEABLE AROMATICS		EPA 8020
Benzene	ug/kg	<10
Toluene	ug/kg	<10
Ethylbenzene	ug/kg	<10
Chlorobenzene	ug/kg	<10
1,3-Dichlorobenzene	ug/kg	<10
1,4-Dichlorobenzene	ug/kg	<10
1,2-Dichlorobenzene	ug/kg	<10
m-Xylene	ug/kg	<10
p-Xylene	ug/kg	<10
o-Xylene	ug/kg	<10

PROJECT MANAGER Jacqueline A. Smith

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
MW-4	E-418B	15727	0	5/23/90	05/24/90
MW-5	E-418B	15728	0	5/23/90	05/24/90
MW-6	E-418B	15729	0	5/23/90	05/24/90

ANALYTICAL REPORT
DATE REPORTED 06/13/90

TEST	UNITS	LAB NO. 15727	LAB NO. 15728	LAB NO. 15729
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	22	<1.0

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

Location		Lab No	Time Sampled	Date Sampled	Date Received
ANNEX GARAGE PURGE WELL	E-418B	18175	0	08/01/90	08/03/90
MW-4	E-418B	18176	0	08/01/90	08/03/90
MW-5	E-418B	18177	0	08/01/90	08/03/90
MW-6	E-418B	18178	0	08/01/90	08/03/90

ANALYTICAL REPORT
DATE REPORTED 08/08/90

TEST	UNITS	LAB NO. 18175	LAB NO. 18176	LAB NO. 18177	LAB NO. 18178
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PROGRAM
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location			Lab No	Time Sampled	Date Sampled	Date Received
MW-4	ANNEX	E-418 B	20713	0	10/15/90	10/17/90
MW-5	ANNEX	E-418 B	20714	0	10/15/90	10/17/90
MW-6	ANNEX	E-418 B	20715	0	10/15/90	10/17/90
PURGE SYSTEM	ANNEX	E-418 B	20716	0	10/15/90	10/17/90

ANALYTICAL REPORT
DATE REPORTED 10/31/90

TEST	UNITS	LAB NO. 20713	LAB NO. 20714	LAB NO. 20715	LAB NO. 20716
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A. Vaclav

SEG LABORATORIES, INC.

PURGE WELL REMEDIATION PI
Saginaw Grey Iron Foundry
Annex Building
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD
[illegible]
SAGINAW, MI 48603
MR. LARRY ENGELHART

Location	Lab No	Time Sampled	Date Sampled	Date Received
MW-4 E-418 B	21833	0	11/19/90	11/20/90
MW-5 E-418 B	21834	0	11/19/90	11/20/90
MW-6 E-418 B	21835	0	11/19/90	11/20/90
PURGE SYSTEM ANNEX E-418 B	21836	0	11/19/90	11/20/90

ANALYTICAL REPORT
DATE REPORTED 12/11/90

TEST	UNITS	LAB NO. 21833	LAB NO. 21834	LAB NO. 21835	LAB NO. 21836
PURGEABLE AROMATICS		EPA 602	EPA 602	EPA 602	EPA 602
Benzene	ug/L	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L	<1.0	<1.0	<1.0	<1.0
p-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
m-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0
o-Xylene	ug/L	<1.0	<1.0	<1.0	<1.0

PROJECT MANAGER Lori A Vacha

SEG LABORATORIES, INC.

LOG NO: SE00263

Received: 03 JUL 91
Reported: 22 JUL 91

MR. CHRISTOPHER WILLISTON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION , AQ SAMPLES
SE00263-1	MW-4
SE00263-2	MW-5
SE00263-3	MW-6
SE00263-4	PURGE WELL EFF. ANNEX BLDG.
SE00263-5	MW-7

PARAMETER	SE00263-1	SE00263-2	SE00263-3	SE00263-4	SE00263-5
PURGEABLE AROMATICS					
Benzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0

1120 May Street, Lansing, Michigan 48906 • (517) 374-6800 • FAX (517) 374-7390
A Snell Environmental Group Company

SEG LABORATORIES, INC.

A DLZ Company

COMPREHENSIVE ENVIRONMENTAL TESTING SERVICES

LOG NO: SE02399

Received: 28 APR 92
Reported: 05 MAY 92

MR. JIM CUTHBERTSON
GEO-TEST, LTD
2970 BAY ROAD
SAGINAW, MICHIGAN 48603

Groundwater Samples

Project: E-0418B

REPORT OF ANALYTICAL RESULTS

LOG NO	SAMPLE DESCRIPTION, AQ SAMPLES	DATE SAMPLED
SE02399-1	MW-4	24 APR 92
SE02399-2	MW-5	24 APR 92
SE02399-3	MW-6	24 APR 92
SE02399-4	ANNEX BLDG. PURGE EFF.	24 APR 92
SE02399-5	MW-10	24 APR 92

PARAMETER	SE02399-1	SE02399-2	SE02399-3	SE02399-4	SE02399-5
BTEX COMPOUNDS					
Benzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
p-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene, ug/L	<1.0	<1.0	<1.0	<1.0	<1.0

Benzene value for Oil House Purge Effluent was confirmed in duplicate using separate vials.

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc.

Analytical Report

Lab I.D. :	**50802**
Report Date :	**02/14/1995**
Project :	**GMPT - SG1 #5397-10**
Client :	**Conestoga Rovers & Associates**
	651 Colby Drive
	Waterloo, Ontario
	Canada N2V 1C2
Attention :	**Mr. Mike Tomka**

5 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

MW16

Sample:	50802-3017	Matrix:	Water
Client Sample:	GW-5397-020795-SSH-402	Location:	
COLLECTED:	02/07/1995 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	02/09/1995 16:27	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Copper (ICAP)	0.071	mg/L	0.025	SW-846 Mtd. 6010	02/10/1995 CG
Lead (GFAA)	0.056	mg/L	0.003	SW-846 Mtd. 7421	02/14/1995 MC
Magnesium (ICAP)	120	mg/L	0.2	SW-846 Mtd. 6010	02/10/1995 CG
Sodium (ICAP)	780	mg/L	5	"	02/10/1995 CG
NON-METALLIC INORGANIC ANALYSIS					
Chloride	28	mg/L	2	Standard Mtd. 4500 CL-	02/10/1995 DM
Total Phosphorus	2.5	mg/L	0.002	EPA 365.2	02/13/1995 OY

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/14/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates

Sample:	50802-3019	Matrix:	Water
Client Sample:	GW-5397-020795-SSH-402	Location:	
COLLECTED:	02/07/1995 :	Project:	GMPT - SG1 #5397-10
RECEIVED:	02/09/1995 16:27	Sampled By:	SH

MW16

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
DISSOLVED METALS ANALYSIS					
Copper (ICAP)	ND	mg/L	0.025	SW-846 Mtd. 6010	02/10/1995 CG
Lead (GFAA)	ND	mg/L	0.003	SW-846 Mtd. 7421	02/14/1995 MC
Magnesium (ICAP)	67	mg/L	0.2	SW-846 Mtd. 6010	02/10/1995 CG
Sodium (ICAP)	850	mg/L	5	"	02/10/1995 CG

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 02/14/1995

Lab Reg # 50802

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech Analytical Labs

REFERENCE NUMBER: 5397

PROJECT NAME: GM Metal Castings

SAMPLER'S SIGNATURE: Steven S. Hoevenaar PRINTED NAME: Steven S. Hoevenaar

Lab I.D.	SEQ. No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: lead	chloride	sodium	phosphorus	copper	magnesium	REMARKS
5016	1	2/7/95		GW-5397-020795-SSH-401	water	43	X	X	X	X	X	X	
5017	2	2/7/95		GW-5397-020795-SSH-402	water	43	X	X	X	X	X	X	
5018		2/7/95		GW-5397-020795-SSH-MS1	water	1	X		X		X	X	
5019		2/7/95		GW-5397-020795-SSH-402	water	1	X		X		X	X	
													Note: dissolved metals require lab filtering
				TOTAL NUMBER OF CONTAINERS		8							

RELINQUISHED BY:	DATE: 2/8/95 TIME: 1500	RECEIVED BY:	DATE: TIME:
1. Steven S. Hoevenaar		1.	
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 0743059102

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

1093

SAMPLE TEAM: SSH, TAH

RECEIVED FOR LABORATORY BY:

DATE: TIME:

1001 (FORMS)-APRIL 29, 93-REV.0-(C)(F-01)

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX. 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc

Analytical Report

Lab I.D. :	**46635**
Report Date :	**01/05/1995**
Project :	**GM-Grey Iron #5663**
Client :	**Conestoga Rovers & Associates**
	651 Colby Drive
	Waterloo, Ontario
	Canada N2V 1C2
Attention :	**Mr. Mike Tomka**

11 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

SB-1

Conestoga Rovers & Associates

Sample:	46635-7062	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-1	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	100	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.4	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conraa Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

SB-2

Sample:	46635-7063	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-2	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 239.2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.5	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

SB-3

Conestoga Rovers & Associates

Sample:	46635-7064	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-3	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	58	mg/kg	1	EPA 23 2	01/04/1995 MC
			Note: Results are reported on a dry weight basis.		
PHYSICAL PROPERTY ANALYSIS					
% Solids	79.6	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

Sample:	46635-7065	Matrix:	Soil
Client Sample:	S-5397-121394-SSH-SB-4	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

SB-4

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Lead (GFAA)	110	mg/kg	1	EPA 239.2	01/04/1995 MC
Note: Results are reported on a dry weight basis.					
PHYSICAL PROPERTY ANALYSIS					
% Solids	78.1	%	0.1	Standard Mtd. 2540G	12/29/1994 PL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc

Conestoga Rovers & Associates

Annex 5-7' bgs

Sample:	46635-7067	Matrix:	Soil
Client Sample:	S-5397-121494-SSH-101	Location:	
COLLECTED:	12/16/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	12/19/1994 16:08	Sampled By:	SH

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	81.9	%	0.1	Standard Mtd. 2540G	12/29/1994 PL
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/29/1994 LS
Toluene	ND	ug/kg	10	"	12/29/1994 LS
Ethylbenzene	ND	ug/kg	10	"	12/29/1994 LS
Xylenes (Total)	ND	ug/kg	30	"	12/29/1994 LS

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/05/1995

Rev. # 46655

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech

REFERENCE NUMBER: 5397

PROJECT NAME: GM City Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S. Hoeksema

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	PARAMETERS: BTEX	PNA	Lead	REMARKS
1	12/16/94		S-5397-121394-SSH-SB1	Soil	1			X	
2			" -SB2		1			X	
3			" -SB3		1			X	
4			" -SB4		1			X	
5			" -SB5		1			X	* Hold per request
6			S-5397-121494-SSH-101		1	X			
7			S-5397-121594-SSH-102		1	X			
8			S-5397-121594-SSH-103		1	X			5. 120 soil
9			S-5397-121694-SSH-104		1	X	X		6. 250 soil
10			" -105		1	X			
11			" -106		1	X			

TOTAL NUMBER OF CONTAINERS: 11

RELINQUISHED BY:	DATE: 12/16/94 TIME: 1700	RECEIVED BY:	DATE: TIME:
1. [signature]		1.	
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9706310482

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

0958

SAMPLE TEAM: SSH

RECEIVED FOR LABORATORY BY: [signature]
DATE: 12-19-94 TIME: 1109

1001 (FORM) APRIL 88-93 REV 3 (OVF 01)

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
FAX: 616-845-9942

ANATECH
laboratories

a Division of
CT&E Environmental
Services Inc.

5397

Analytical Report

Lab I.D. :	46699
Report Date :	01/11/1995
Project :	GMPT - SG1 #5397-10
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario Canada N2V 1C2
Attention :	Mr. Mike Tomka

5 pages including cover sheet

1200 Conrad Industrial Drive
Ludington, Michigan 49431
616-843-1877
616-845-9942

ANATECH Laboratories

a Division of
CT&E Environmental
Services Inc.

Conestoga Rovers & Associates MW-16

Sample:	46699-7414	Matrix:	Water
Client Sample:	GW-S397-12/1994-SSH-109	Location:	
COLLECTED:	12/19/1994 :	Project:	GMPT - SG1 #S397-10
RECEIVED:	12/22/1994 09:53	Sampled By:	S S H

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
TOTAL METALS ANALYSIS					
Copper (ICAP)	0.08	mg/L	0.02	SW-846 Mtd. 6010	12/30/1994 JJB
Lead (ICAP)	0.39	mg/L	0.03	"	12/30/1994 JJB
Magnesium (ICAP)	30	mg/L	0.04	"	12/30/1994 JJB
Sodium (ICAP)	190	mg/L	1	"	12/30/1994 JJB
NON-METALLIC INORGANIC ANALYSIS					
Chloride	220	mg/L	10	Standard Mtd. 4500 CL-	01/06/1995 DM
Total Phosphorus	0.35	mg/L	0.003	EPA 365.2	01/09/1995 CLY
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/L	1	SW-846 Mtd. 8260	12/30/1994 DL
Toluene	6	ug/L	1	"	12/30/1994 DL
Ethylbenzene	ND	ug/L	1	"	12/30/1994 DL
Xylenes (Total)	ND	ug/L	3	"	12/30/1994 DL
GC/MS VOLATILE ORGANIC					
Methyl Tertiary Butyl Ether	ND	ug/L	50	SW 846 Mtd. 8260	12/30/1994 DL
1,2-Dichloroethane	ND	ug/L	1	"	12/30/1994 DL
1,2-Dibromoethane	ND	ug/L	1	"	12/30/1994 DL

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 01/11/1995

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
11100 Metro Airport Center Drive - Suite 160
Romulus, MI 48174 (313) 942-0909

CHAIN OF CUSTODY RECORD

SHIPPED TO (Laboratory Name): Anatech Lab Ref No 46699

REFERENCE NUMBER: 5397

PROJECT NAME: GMPT - Saginaw Grey Iron

SAMPLER'S SIGNATURE: [signature] PRINTED NAME: Steven S Hoexmeyer

SEQ: No.	DATE	TIME		SAMPLE TYPE	No. OF CONTAINERS	BTEX	methyl-tert-butyl ether	1,2-dichloroethane	dibromochloromethane	copper	chromium	cadmium	magnesium	lead	REMARKS
1	12/19/94		GW-5397-121994-SSH-107	water	2	X	X	X	X						
2	12/19/94		GW-5397-121994-SSH-108	water	3	X	X	X	X	X	X	X	X	X	X	1,2 dimethane
3	12/19/94		GW-5397-121994-SSH-109	water	3	X	X	X	X	X	X	X	X	X	X	
4	12/20/94		GW-5397-122094-SSH-110	water	2	X	X	X	X							
5	12/20/94		trip blanks	water	2	X	X	X	X							
		1403													

TOTAL NUMBER OF CONTAINERS 12

10-40 mL VOA
2-500 HNO3
42°F

RELINQUISHED BY: 1. [signature]	DATE: 12/20/94 TIME: 1430	RECEIVED BY: 1.	DATE: TIME:
RELINQUISHED BY: 2.	DATE: TIME:	RECEIVED BY: 2.	DATE: TIME:
RELINQUISHED BY: 3.	DATE: TIME:	RECEIVED BY: 1.	DATE: TIME:

METHOD OF SHIPMENT: Fed Ex AIR BILL No. 9706310493

White -Fully Executed Copy Pink -Shipper Copy
Yellow -Receiving Laboratory Copy Goldenrod -Sampler Copy

SAMPLE TEAM: SSH, DJK

RECEIVED FOR LABORATORY BY: [signature]
DATE: 12/22/94 TIME: 800 AM

1001 (FC S APRIL 28, 93-REV.0 (C)(F-01)

ANTCR

Appendix 9.8
Available Laboratory Analytical Data
Former Oil/Water Separator USTs #7 & #8

Saginaw Grey Iron
1629 N Washington
Saginaw, MI 48605

The following samples were received for analysis:

Generator: Saginaw Grey Iron

Address: Saginaw, MI

Your Job #: N/A

Date Samples Received at Lab: 11/11/92

QEL Sample #	Sample Description	Analysis
169311	Water, Waste Oil Tank Exc.	PNA
169312	Soil Composite - Sidewells	PNA
169313	Water - Diesel Tank Exc.	BTEX, PNA
169314	Soil - North Wall Diesel Tank	BTEX, PNA
169315	Soil - East Wall - Diesel Tank	BTEX, PNA
169316	Soil - West Wall - Diesel Tank	BTEX, PNA
169317	Soil - South Wall - Diesel Tank	BTEX, PNA

QEL Report #: 9240

QEL Sample #: 169311

Sample Identification: Saginaw Grey Iron, Water, Waste Oil Tank Exc.

Date Completed: 11/12/92

Polynuclear Aromatics (PNA) in Water by HPLC

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(ghi)perylene	ND	5.0
Ideno(1,2,3,-cd)pyrene	ND	5.0

SURROGATE	% RECOVERY
D5-Nitrobenzene	*

* Poor recovery due to matrix interference.

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Detection Limit

Reference- SW-846, Method 3510 & 8310

Analyst

QEL Report #: 9240

QEL Sample #: 169312

Sample Identification: Saginaw Grey Iron, Soil Composite, Sidewells

Date Completed: 11/12/92

Polynuclear Aromatics (PNA) in Soil by HPLC

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Naphthalene	ND	330
Acenaphthylene	ND	330
Acenaphthene	ND	330
Fluorene	ND	330
Phenanthrene	ND	330
Anthracene	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Dibenz(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330
Ideno(1,2,3,-cd)pyrene	ND	330

SURROGATE	% RECOVERY
D5-Nitrobenzene	114

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Limit

Reference- SW-846, Method 3550 & 8310

Analyst

QUALITY ENVIRONMENTAL LABORATORIES

BTEX QUALITY CONTROL RESULTS

DATE : 11/13/92
BATCH : Q2W1350
SAMPLE : 169317
INST. : HS-GC
OPER : MWW

Amt Smp (g-mL) : 5.00
Final Volume (mL): 5.00
Spike level (ppb): 50

COMPOUND	SMP	MS	%rec.	MSD	%rec.	RPD
Mtbe	0.00	60.20	120.40	48.50	97.00	21.5
Benzene	0.00	61.70	123.40	52.60	105.20	15.9
Toluene	4.68	61.32	113.28	48.65	87.94	25.1
Ethyl benzene	0.00	58.79	117.58	42.47	84.94	32.2
m.p-Xylenes	0.00	60.81	121.62	42.77	85.54	34.8
o-Xylene	2.89	47.99	90.20	34.81	63.84	34.2

QC REPORT FOR GC ANALYSIS

BATCH # Q2L1347

Blank: All ND? ✓ yes ___ no

Comments: _____

Matrix Spikes:

Compound	MS Conc	% rec	MSD Conc	%rec	RPD	LCL	UC
Naphthalene						60	13
Acenaphthylene						↓	↓
Acenaphthene							
Fluorene							
Phenanthrene							
Anthracene							
Fluoranthene							
Pyrene							
Benz(a)anthrn							
Chrysene							
Benzo(b)fluor							
Benzo(k)fluor							
Benzo(a)pyrene							
Dibenzo(a,h)							
Benzo(g,h,i)							
Indeno(1,2,3-cd)						↓	↓

Comments: _____

QUALITY ENVIRONMENTAL LABORATORIE

PNA QUALITY CONTROL RESULTS

DATE: 11/11/92
batch: Q2L1347
sample# 169312

INST : HPLC
OPER : KJR

AMT. SMP (g/ml) : 36
FINAL VOL (ml) : 10
SPK LEV (ppm) : 0.5

BLANK ALL ND ? YES ✓ NO ____

COMPOUND	SMP	MS	%rec.	MSD	%rec.	RP
Naphthalene	0.00	1.69	84.50	1.40	70.00	18.
Acenaphthylene	0.00	1.91	95.50	1.82	91.00	4.8
Acenaphthene	0.45	2.10	82.50	2.70	112.50	30.
Fluorene	0.15	1.81	83.00	1.80	82.50	0.6
Phenanthrene	0.20	1.95	87.50	2.17	98.50	11.8
Anthracene	0.00	1.83	91.50	1.78	89.00	2.7
Fluoranthene	0.29	2.21	96.00	2.92	131.50	31.2
Pyrene	0.00	2.04	102.00	2.53	126.50	21.
Benz(a)anthracen	0.00	1.93	96.50	2.02	101.00	4.
Chrysene	0.02	1.76	87.00	1.88	93.00	6.
Benzo(b)fluoranth	0.06	1.96	95.00	2.10	102.00	7.
Benzo(k)fluoranth	0.00	1.88	94.00	1.91	95.50	1.5
Benzo(a)pyrene	0.04	2.11	103.50	2.30	113.00	8.7
Dibenzo(a,h)anthr	0.07	2.24	108.50	2.27	110.00	1.3
Benzo(g,h,i)peryle	0.00	1.99	99.50	1.85	92.50	7.2
Indeno(1,2,3-cd)py	0.00	1.99	99.50	1.92	96.00	3.5

QC REPORT FOR GC ANALYSIS

BATCH # Q1L1353

Blank: All ND? ✓ yes ____ no

Comments: _____

_____

Matrix Spikes:

Compound	MS Conc	% rec	MSD Conc	%rec	RPD	LCL	UCL
Naphthalene						60	130
Acenaphthylene						↓	↓
Acenaphthene							
Fluorene							
Phenanthrene							
Anthracene							
Fluoranthene							
Pyrene							
Benz(a)anthra							
Chrysene							
Benzo(b)fluor							
Benzo(k)fluor							
Benzo(a)pyrene							
Dibenzo(a,h)							
Benzo(g,h,i)							
Indeno(1,2,3-cd)							

Comments: _____

_____

_____

_____

QUALITY ENVIRONMENTAL LABORATORIES

PNA QUALITY CONTROL RESULTS

DATE: 11/13/92
batch: Q1L1353
sample# 169311

INST: HPLC
OPER: KJR

AMT. SMP (g/ml): 500.0
FINAL VOL (ml): 10.0
SPK LEV (ppm): 0.040

BLANK ALL ND ? YES ✓ NO ____

COMPOUND	SMP	MS	%rec.	MSD	%rec.	RPD
Naphthalene	0.00	1.83	91.50	1.90	95.00	3.75
Acenaphthylene	0.00	1.75	87.50	1.81	90.50	3.37
Acenaphthene	0.00	1.74	87.00	1.63	81.50	6.53
Fluorene	0.01	1.60	79.50	1.70	84.50	6.10
Phenanthrene	0.04	1.67	81.50	1.80	88.00	7.67
Anthracene	0.01	1.64	81.50	1.77	88.00	7.67
Fluoranthene	0.00	1.62	81.00	1.73	86.50	6.57
Pyrene	0.00	1.61	80.50	1.73	86.50	7.19
Benz(a)anthracen	0.00	1.62	81.00	1.75	87.50	7.72
Chrysene	0.00	1.46	73.00	1.58	79.00	7.89
Benzo(b)fluoranth	0.00	1.58	79.00	1.69	84.50	6.73
Benzo(k)fluoranth	0.00	1.56	78.00	1.68	84.00	7.41
Benzo(a)pyrene	0.00	1.64	82.00	1.73	86.50	5.34
Dibenzo(a,h)anthr	0.00	1.45	72.50	1.61	80.50	10.46
Benzo(g,h,i)peryle	0.00	1.47	73.50	1.58	79.00	7.21
Indeno(1,2,3-cd)py	0.00	1.49	74.50	1.92	96.00	1.60

Great Lakes Environmental

GM Powertrain (Project 09P812)

Sample #: L2994-2

Description : GN
GARAGE TANK NORTH

Collected: 25-NOV-92 Matrix: Soil Submitted: 30-NOV-92

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
BNA GC/MS (HL)					
Acenaphthene	ND	330	ug/kg	200	8270
Acenaphthylene	ND	330	ug/kg	200	8270
Anthracene	ND	330	ug/kg	200	8270
Benzo(a)anthracene	ND	330	ug/kg	200	8270
Benzo(a)pyrene	ND	330	ug/kg	200	8270
Benzo(b+k)fluoranthene	ND	330	ug/kg	200	8270
Benzo(ghi)perylene	ND	330	ug/kg	200	8270
Chrysene	ND	330	ug/kg	200	8270
Dibenzo(a,h)anthracene	ND	330	ug/kg	200	8270
Fluoranthene	ND	330	ug/kg	200	8270
Fluorene	ND	330	ug/kg	200	8270
Indeno(1,2,3,cd)pyrene	ND	330	ug/kg	200	8270
Naphthalene	ND	330	ug/kg	200	8270
Phenanthrene	ND	330	ug/kg	200	8270
Pyrene	ND	330	ug/kg	200	8270

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Janine Reagan/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-0000 FAX (313) 477-0000

TANK #7

033

Great Lakes Environmental

Sample #: L2994-3 GM Powertrain (Project 09P812)

Description : GS
GARAGE TANK SOUTH

Collected: 25-NOV-92 Matrix: Soil Submitted: 30-NOV-92

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PNA GC/MS (HL)					
Acenaphthene	ND	330	ug/kg	200	8270
Acenaphthylene	ND	330	ug/kg	200	8270
Anthracene	ND	330	ug/kg	200	8270
Benzo(a)anthracene	ND	330	ug/kg	200	8270
Benzo(a)pyrene	ND	330	ug/kg	200	8270
Benzo(b+k)fluoranthene	ND	330	ug/kg	200	8270
Benzo(ghi)perylene	ND	330	ug/kg	200	8270
Chrysene	ND	330	ug/kg	200	8270
Dibenzo(a,h)anthracene	ND	330	ug/kg	200	8270
Fluoranthene	ND	330	ug/kg	200	8270
Fluorene	ND	330	ug/kg	200	8270
Indeno(1,2,3,cd)pyrene	ND	330	ug/kg	200	8270
Naphthalene	ND	330	ug/kg	200	8270
Phenanthrene	ND	330	ug/kg	200	8270
Pyrene	ND	330	ug/kg	200	8270

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Janine Reagan/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-4000 FAX (313) 477-4001

TANK #7

033592

Great Lakes Environmental

Sample #: L2994-4 GM Powertrain (Project 09P812)

Description : GC
GARAGE TANK SIDEWALL

Collected: 25-NOV-92 Matrix: Soil Submitted: 30-NOV-92

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PNA GC/MS (HL)					
Acenaphthene	ND	330	ug/kg	200	8270
Acenaphthylene	ND	330	ug/kg	200	8270
Anthracene	ND	330	ug/kg	200	8270
Benzo(a)anthracene	ND	330	ug/kg	200	8270
Benzo(a)pyrene	ND	330	ug/kg	200	8270
Benzo(b+k)fluoranthene	ND	330	ug/kg	200	8270
Benzo(ghi)perylene	ND	330	ug/kg	200	8270
Chrysene	ND	330	ug/kg	200	8270
Dibenzo(a,h)anthracene	ND	330	ug/kg	200	8270
Fluoranthene	ND	330	ug/kg	200	8270
Fluorene	ND	330	ug/kg	200	8270
Indeno(1,2,3,cd)pyrene	ND	330	ug/kg	200	8270
Naphthalene	ND	330	ug/kg	200	8270
Phenanthrene	ND	330	ug/kg	200	8270
Pyrene	ND	330	ug/kg	200	8270

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Janine Reagan/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24330 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) [illegible] FAX (313) [illegible]

TANK #7

033593

Appendix 9.9
Available Laboratory Analytical Data
Former Cooling Tower UST #10

ANATECH

Analytical Laboratories

Revised Report

Lab I.D. :	35568
Report Date :	12/15/1993
Project :	SG1 Tank 10 #5672
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario N2V IC2
Attention :	Mr. Mike Tomka

5 pages including cover sheet

ANATECH

Analytical Laboratories

SB-1

Conestoga Rovers & Associates

Sample:	35568-3246	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-001	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	14	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	8900	ug/kg	3300	SW-846 Mtd. 8270	12/12/1993 RJW
Benzo (a) Pyrene	6500	ug/kg	3300	"	12/12/1993 RJW
Benzo (b) Fluoranthene	5800	ug/kg	3300	"	12/12/1993 RJW
Benzo (g,h,i) Perylene	4400	ug/kg	3300	"	12/12/1993 RJW
Benzo (k) Fluoranthene	5800	ug/kg	3300	"	12/12/1993 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	3300	"	12/12/1993 RJ
Indeno (1,2,3-cd) Pyrene	4400	ug/kg	3300	"	12/12/1993 RJ
Naphthalene	ND	ug/kg	3300	"	12/12/1993 RJW
Acenaphthene	ND	ug/kg	3300	"	12/12/1993 RJW
Acenaphthylene	ND	ug/kg	3300	"	12/12/1993 RJW
Fluorene	ND	ug/kg	3300	"	12/12/1993 RJW
Phenanthrene	8400	ug/kg	3300	"	12/12/1993 RJW
Anthracene	5600	ug/kg	3300	"	12/12/1993 RJW
Fluoranthene	23,000	ug/kg	3300	"	12/12/1993 RJW
Pyrene	21,000	ug/kg	3300	"	12/12/1993 RJW
Chrysene	8600	ug/kg	3300	"	12/12/1993 RJW
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

SB-2

Conestoga Rovers & Associates

Sample:	35568-3247	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-002	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	ND	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	1400	ug/kg	330	SW-846 Mtd. 8270	12/14/1993 JA
Benzo (a) Pyrene	ND	ug/kg	330	"	12/14/1993 JA
Benzo (b) Fluoranthene	870	ug/kg	330	"	12/14/1993 JA
Benzo (g,h,i) Perylene	600	ug/kg	330	"	12/14/1993 JA
Benzo (k) Fluoranthene	1200	ug/kg	330	"	12/14/1993 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Indeno (1,2,3-cd) Pyrene	700	ug/kg	330	"	12/14/1993 JA
Naphthalene	ND	ug/kg	330	"	12/14/1993 JA
Acenaphthene	ND	ug/kg	330	"	12/14/1993 JA
Acenaphthylene	ND	ug/kg	330	"	12/14/1993 JA
Fluorene	ND	ug/kg	330	"	12/14/1993 JA
Phenanthrene	1000	ug/kg	330	"	12/14/1993 JA
Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Fluoranthene	2400	ug/kg	330	"	12/14/1993 JA
Pyrene	5500	ug/kg	330	"	12/14/1993 JA
Chrysene	1200	ug/kg	330	"	12/14/1993 JA
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

Conestoga Rovers & Associates

SB-3

Sample:	35568-3248	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-003	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	13	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	32	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	12/12/1993 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/12/1993 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	12/12/1993 RJW
Naphthalene	ND	ug/kg	330	"	12/12/1993 RJW
Acenaphthene	ND	ug/kg	330	"	12/12/1993 RJW
Acenaphthylene	ND	ug/kg	330	"	12/12/1993 RJW
Fluorene	ND	ug/kg	330	"	12/12/1993 RJW
Phenanthrene	ND	ug/kg	330	"	12/12/1993 RJW
Anthracene	ND	ug/kg	330	"	12/12/1993 RJW
Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Pyrene	ND	ug/kg	330	"	12/12/1993 RJW
Chrysene	ND	ug/kg	330	"	12/12/1993 RJW
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager
C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

ANATECH
Analytical Laboratories

SB-4

Conestoga Rovers & Associates

Sample:	35568-3249	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-004	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	ND	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	2600	ug/kg	330	SW-846 Mtd. 8270	12/14/1993 JA
Benzo (a) Pyrene	1500	ug/kg	330	"	12/14/1993 JA
Benzo (b) Fluoranthene	1800	ug/kg	330	"	12/14/1993 JA
Benzo (g,h,i) Perylene	1100	ug/kg	330	"	12/14/1993 JA
Benzo (k) Fluoranthene	1700	ug/kg	330	"	12/14/1993 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Indeno (1,2,3-cd) Pyrene	1200	ug/kg	330	"	12/14/1993 JA
Naphthalene	360	ug/kg	330	"	12/14/1993 JA
Acenaphthene	540	ug/kg	330	"	12/14/1993 JA
Acenaphthylene	ND	ug/kg	330	"	12/14/1993 JA
Fluorene	580	ug/kg	330	"	12/14/1993 JA
Phenanthrene	5300	ug/kg	330	"	12/14/1993 JA
Anthracene	1200	ug/kg	330	"	12/14/1993 JA
Fluoranthene	4600	ug/kg	330	"	12/14/1993 JA
Pyrene	8700	ug/kg	330	"	12/14/1993 JA
Chrysene	2000	ug/kg	330	"	12/14/1993 JA
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

Attachment B-2

March 16-17, 1994

ANATECH

Analytical Laboratories

Recd DFA

APR - 6

Analytical Report

Lab I.D. : 41275
Report Date : 03/28/1994
Project : Railroad Track #5838
Client : Conestoga Rovers & Associates

651 Colby Drive

Waterloo, Ontario N2V IC2

Attention : Mr. Michael Tomka

6 pages including cover sheet

SB-5

Conestoga Rovers & Associates

Sample:	41275-4751	Matrix:	Soil / Grab
Client Sample:	S-031694-MRT.001	Location:	
COLLECTED:	03/16/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	ND	ug/kg	330	"	03/25/1994 [redacted]
Anthracene	ND	ug/kg	330	"	03/25/1994 [redacted]
Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Chrysene	ND	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

ANATECH
Analytical Laboratories

Conestoga Rovers & Associates

SB-6

Sample:	41275-4752	Matrix:	Soil / Grab
Client Sample:	S-031694-MRT.002	Location:	
COLLECTED:	03/16/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	ND	ug/kg	330	"	03/25/1994 RJW
Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Chrysene	ND	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

Conestoga Rovers & Associates

SB-7

Sample:	41275-4753	Matrix:	Soil / Grab
Client Sample:	S-031794-MRT.003	Location:	
COLLECTED:	03/17/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	430	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	570	ug/kg	330	"	03/25/1994 R
Anthracene	ND	ug/kg	330	"	03/25/1994 R
Fluoranthene	600	ug/kg	330	"	03/25/1994 RJW
Pyrene	580	ug/kg	330	"	03/25/1994 RJW
Chrysene	530	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

SB-8

Conestoga Rovers & Associates

Sample:	41275-4754	Matrix:	Soil / Grab
Client Sample:	S-031794-MRT.004	Location:	
COLLECTED:	03/17/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	830	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	830	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	830	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	830	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	830	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	830	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	830	"	03/25/1994 RJW
Fluorene	ND	ug/kg	830	"	03/25/1994 RJW
Phenanthrene	1000	ug/kg	830	"	03/25/1994 RJW
Anthracene	ND	ug/kg	830	"	03/25/1994 RJW
Fluoranthene	1200	ug/kg	830	"	03/25/1994 RJW
Pyrene	980	ug/kg	830	"	03/25/1994 RJW
Chrysene	ND	ug/kg	830	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

LODs are elevated because of the presence of other compounds.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

ANATECH
Analytical Laboratories

MW-1

Conestoga Rovers & Associates

Sample:	41275-4755	Matrix:	Water / Grab
Client Sample:	W-031394-MRT.005	Location:	
COLLECTED:	03/13/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/L	5	SW-846 Mtd. 8270	03/23/1994 RJW
Benzo (a) Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (b) Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (k) Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/L	5	"	03/23/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Naphthalene	ND	ug/L	5	"	03/23/1994 RJW
Acenaphthene	ND	ug/L	5	"	03/23/1994 RJW
Acenaphthylene	ND	ug/L	5	"	03/23/1994 RJW
Fluorene	ND	ug/L	5	"	03/23/1994 RJW
Phenanthrene	ND	ug/L	5	"	03/23/1994 RJW
Anthracene	ND	ug/L	5	"	03/23/1994 RJW
Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Chrysene	ND	ug/L	5	"	03/23/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/18/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

ATTACHMENT B

ANALYTICAL REPORTS

Conestoga Rovers & Associates

Sample:	43268-2925	Matrix:	Soil
Client Sample:	S-063094-FR-008	Location:	
COLLECTED:	06/30/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	07/02/1994 13:17	Sampled By:	Frank

SOIL SAMPLE (PIPE RUN

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	87.3	%	0.1	Standard Mtd. 2540G	07/06/1994 RD
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	07/14/1994 JA
Benzo (a) Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (b) Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (k) Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	07/14/1994 JA
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Naphthalene	ND	ug/kg	330	"	07/14/1994 JA
Acenaphthene	ND	ug/kg	330	"	07/14/1994 JA
Acenaphthylene	ND	ug/kg	330	"	07/14/1994 JA
Fluorene	ND	ug/kg	330	"	07/14/1994 JA
Phenanthrene	ND	ug/kg	330	"	07/14/1994 JA
Anthracene	ND	ug/kg	330	"	07/14/1994 JA
Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Chrysene	ND	ug/kg	330	"	07/14/1994 JA
Semi Volatile Extraction	-	-	-	"	07/07/1994 SJ

Note: Results are reported on a dry weight basis.

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 07/18/1994

Conestoga Rovers & Associates

Sample:	43268-2926	Matrix:	Soil
Client Sample:	S-063094-FR-009	Location:	
COLLECTED:	06/30/1994 :	Project:	GM-Grey Iron #5663
RECEIVED:	07/02/1994 13:17	Sampled By:	Frank

SOIL SAMPLE (FLOOR EXCAVATION)

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
PHYSICAL PROPERTY ANALYSIS					
% Solids	83.9	%	0.1	Standard Mtd. 2540G	07/06/1994 RD
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	07/14/1994 JA
Benzo (a) Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (b) Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	07/14/1994 JA
Benzo (k) Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	07/14/1994 JA
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Naphthalene	ND	ug/kg	330	"	07/14/1994 JA
Acenaphthene	ND	ug/kg	330	"	07/14/1994 JA
Acenaphthylene	ND	ug/kg	330	"	07/14/1994 JA
Fluorene	ND	ug/kg	330	"	07/14/1994 JA
Phenanthrene	ND	ug/kg	330	"	07/14/1994 JA
Anthracene	ND	ug/kg	330	"	07/14/1994 JA
Fluoranthene	ND	ug/kg	330	"	07/14/1994 JA
Pyrene	ND	ug/kg	330	"	07/14/1994 JA
Chrysene	ND	ug/kg	330	"	07/14/1994 JA
Semi Volatile Extraction	-	-	-	"	07/07/1994 SJ

Note: Results are reported on a dry weight basis.

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 07/18/1994

ANATECH
Analytical Laboratories

Conestoga Rovers & Associates

Sample:	43268-2927	Matrix:	Water	
Client Sample:	W-063094-FR-010	Location:		
COLLECTED:	06/30/1994 :	Project:	GM-Grey Iron #5663	WATER SAMPLE (RECHARGE)
RECEIVED:	07/02/1994 13:17	Sampled By:	Frank	

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/L	5	SW-846 Mtd. 8270	07/13/1994 JA
Benzo (a) Pyrene	ND	ug/L	5	"	07/13/1994 JA
Benzo (b) Fluoranthene	ND	ug/L	5	"	07/13/1994 JA
Benzo (g,h,i) Perylene	ND	ug/L	5	"	07/13/1994 JA
Benzo (k) Fluoranthene	ND	ug/L	5	"	07/13/1994 JA
Dibenzo (a,h) Anthracene	ND	ug/L	5	"	07/13/1994 JA
Indeno (1,2,3-cd) Pyrene	ND	ug/L	5	"	07/13/1994 JA
Naphthalene	ND	ug/L	5	"	07/13/1994 JA
Acenaphthene	ND	ug/L	5	"	07/13/1994 JA
Acenaphthylene	ND	ug/L	5	"	07/13/1994 JA
Fluorene	ND	ug/L	5	"	07/13/1994 JA
Phenanthrene	ND	ug/L	5	"	07/13/1994 JA
Anthracene	ND	ug/L	5	"	07/13/1994 JA
Fluoranthene	ND	ug/L	5	"	07/13/1994 JA
Pyrene	ND	ug/L	5	"	07/13/1994 JA
Chrysene	ND	ug/L	5	"	07/13/1994 JA
Semi Volatile Extraction	-	-	-	"	07/13/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 07/18/1994

Appendix 9.10
Available Laboratory Analytical Data
Phosphate Ester Tank

Appendix 9.10
Available Laboratory Analytical Data
Phosphate Ester Tank

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

July 22, 1985

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Szymanski

Paid Invoice # 130 543 6-28-85

Sample Received: June 14, 1985

Hydro Number: 93872

Client I.D.: Composite of Tank Sample
Reclaim & Phosphate Ester Reclaim

Flash Point, °F	450°
Fire Point, °F	515°
Specific Gravity	1.12
Viscosity at 120°F	35
Viscosity at 210°F	6
Bottom Sediment & Water	
Oil, %	100
Solids, %	<0.1
Water, %	<0.1
Neutralization KOH/g	0.13
Color (visual description)	light greenish brown
Calcium, Ca, mg/kg	25
Sodium, Na, mg/kg	81
PCB's	
Aroclor 1242	4
Aroclor 1254	--
Aroclor 1260	<1

Susan K. Scott
Laboratory Supervisor

803931

Webb Laboratories

27 Harnech Court, Thornhill, Ontario L3T 2A1 (416) 881-9380

June 19, 1985
Lab #05780
Service Receipt # 8594

General Motors Central Foundry Div,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Szymanski, Plant Engineer

Dear Sir:

These are the test results on a sample of Phosphate Ester recycled through activated alumina and absolute filtration from the waste storage tank and reclaimed on June 13, 1985.

Tests	Typical GM Specifications	Recycled
Viscosity, SSU @ 100°F	200 Sec	212.3 Sec
Viscosity, SSU @ 210°F	-	44.0
Flash Point °F	400° Min	470° Min
Fire Point °F	600° Min	Above 600°
Specific Gravity	1.14	1.1450
Colour, ASTM	Green	2.0
Neutralization Number, mg KoH/g	0.15	0.15
% Water, ASTM Method D96	.03%	.01%
% Sediment, by volume	.03%	0.00%
PCB Content, ppm	0.00	None detected

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

JS:aw
Member of ASTM

James Szeto, B.Sc.,
Chemist

3932

* All tests conducted under standard Federal C...

Webb Laboratories

A division of Petroleum Recycling Services Ltd.
27 Harlech Court, Thornhill, Ontario L3T 2A1 (416) 881-9680

July 11, 1985
Lab #05816
SR #8623

General Motors Central Foundry Div,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Szymanski, Plant Engineer

Dear Sir:

These are the test results on a sample of Phosphate Ester recycled through activated alumina and absolute filtration from the waste storage tank and reclaimed on June 26, 1985.

Tests	Typical GM Specifications	Recycled
Viscosity, SSU @ 100°F	200 Sec	207
Viscosity, SSU @ 210°F	-	43.2
Flash Point °F	400° Min	480
Fire Point °F	600° Min	Above 600
Specific Gravity	1.14	1.1400
Colour, ASTM	Green	2.5
Neutralization Number, mg KoH/g	0.15	0.04
% Water, ASTM Method D96	.03%	0.01%
% Sediment, by volume	.03%	0.00%
PCB Content, ppm	0.00	None detected

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

James Szeto, B.Sc.,
Chemist

JS:mh
Member of ASTM

* All tests conducted under strict Federal C

803933

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Szymanski

July 30, 1985

AMENDED COPY

Sample Received:	7-2-85
Hydro Number:	94521
Client I.D.:	Phosphate Ester Recycled 6-27-85
Actual Flash Pt °F*	480
Actual Fire Pt °F	590 ± 10
Sp Gravity	1.144
Viscosity @ 100°F SUS	145
Viscosity @ 210°F SUS	43
Bottom Sediment & Water	
% Solids	<0.1
% Water	<0.1
% Oil	100
Neutralization # Mg KOH/gram	0.05
Color (physical description)	light greenish brown
Sodium, Na, mg/kg	60
Calcium, Ca, mg/kg	15
PCB, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

* Precision is within acceptable limit of ASTM D-92.

003934

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Saginaw Grey Iron Plant
1629 N. Washington
Saginaw, MI 48605-5073
Attn: Al Corrion

Sample received: 8/26/85

Hydro Number:	96722
Client I.D.:	4020 Gal. Phosphate Ester 8/23/85
Physical description:	100% liquid-dark gold color
Fire Point, Actual °F	>545
Flash Point, Actual °F	440
Specific Gravity, umhos/cm	1.148
Viscosity, @ 100 F, cSt	44.4
Viscosity, @ 210 F, cSt	6.0
Base, %	100
Sediment, %	<0.1
Water, %	<0.1
Neutralization, mg/KOH/g	<0.05
Color, units	Dark gold
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Sodium, Na, mg/kg	26
Calcium, Ca, mg/kg	45

Duncan K. Scott
Laboratory Supervisor

803935

Webb Laboratories

A division of Petroleum Recycling Services Ltd
27 Harlech Court, Thornhill, Ontario L3T 2A1 (416) 881-9880

August 30, 1985
Lab #05896
SR #8727

General Motors Central Foundry Div.,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Al Corron, Receiver/Oil House Supervisor, Al Szymanksi, Plant Engineer

Dear Sir:

These are the test results on a sample of Phosphate Ester recycled through activated alumina and absolute filtration from the waste storage tank and reclaimed on August 22, 1985.

Tests	Typical GM Specifications	Recycled
Viscosity, SSU @ 100°F	200 Sec	208.7
Viscosity, SSU @ 210°F	-	43.5
Flash Point °F	425 Min	470
Fire Point °F	600 °Min	600
Specific Gravity @ 60°F	1.141	1.1450
Colour, ASTM	Green	2.0
Neutralization Number, mg KoH/g	0.15	0.06
% Water, ASTM Method D96	0.10%	0.0%
% Sediment, by volume	0.03%	0.0%
PCB Content, ppm	5 ppm MAX	None
Metals, Calcium	50 ppm MAX	1 ppm
Metals, Solium	100 ppm MAX	1 ppm

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

James Szeto, B.Sc.,
Chemist

JS:mh
Member of ASTM

803936

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 2A1 (416) 881-9880

October 10, 1985
Lab # 05965-SF0523

Central Foundry Division,
General Motors,
Saginaw Grey Iron Plant,
1679 North Washington Ave.
Saginaw, Michigan
48605-5073

Attention: Mr. Al Szymanski, Plant Engineer

Dear Sir:

Below please find the test results on a sample of new phosphate ester sample submitted to us on September 27, 1985.

Tests	Results
Viscosity SSU @100°F	212.0
Viscosity SSU @ 210°F	43.8
Flash Point °F	460 Fire Point above 600
Pour Point °F	-10
Gravity API @ 60°F	1.1500
Colour ASTM	1.5
Neutralization Number mg KoH/g	0.00
PCB	less than 5 ppm
Sodium	less than 1 ppm
% Sediment by Centrifuge	0.03% jel
% Free Water by Centrifuge	0.00%

Yours truly,

JS:aw
Member of ASTM

James Szeto, B.Sc.,
Chemist

803937

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 6L5 (416) 881-9880

November 5, 1985
Lab # 06000
SF #2582
SR # 8865

General Motors Central Foundry Div.,
Gray Iron Saginaw Plant,
1629 North Washington Ave.
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corron, Receiver/Oil House Supervisor
Mr. A. Szymanski, Plant Engineer

Dear Sir:

These are the test results on a reclaimed sample of Phosphate Ester recycled through activated alumina and absolute filtration from the waste storage tank on October 29, 1985.

Tests	Typical GM Specifications		Recycled 11/4/86	
Viscosity SSU @ 100°F	200 Sec	— 46	205	
Viscosity SSU @ 210°F	-		43.5	
Flash Point °F	425 Min	— 198	470	480
Fire Point °F	600 Min	— 640	600	640
Specific Gravity @ 60°F	1.141	1.15	1.1450	
Colour ASTM	Green		2.5	
Neutralization Number mg KoH/g	0.15	974	0.10	.14
% Water, ASTM Method D96	0.10%	0.1	0.0%	
% Sediment, By volume	0.03%	0.1	0.0%	
PCB Content, PPM	5 PPM Max	3 M.L 46	None	
Metals Calcium	50 ppm Max	50 ppm	1 ppm	
Metals, Sodium	100 ppm Max		1 ppm	

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

J.S.:aw
Member of ASTM

James Szeto, B.Sc.,
Chemist

803938

* ALL tests conducted under strict Federal Government and ASTM methods and procedures

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Corrion

January 14, 1986

FINAL REPORT - 1-31-86

Sample Received: 11/5/85

Hydro Number: 99622

Client I.D.:	10/31/85 Reclaimed Sample From 5,000 gal. Tank Inside Oil House
Flash Pt. ^{o}F (actual)	198
Fire Pt. ^{o}F (actual)	640
Specific Gravity, g/ml	1.15
Viscosity at 100^{o}F, cS+	46
Viscosity at 210^{o}F, cS+	6
Viscosity at 100^{o}F, SUS	213
Viscosity at 210^{o}F, SUS	45.8
B S & W - Oil, %	100
Solids, %	<0.1
Water, %	<0.1
Neutralization Number by ASTM 974	0.3
Color	golden brown
Physical Description	thin clear oil
Sodium, Na, mg/kg	31
Calcium, Ca, mg/kg	50
PCB by GC mg/kg	
Aroclor 1242	3
Aroclor 1254	--
Aroclor 1260	<1

* Data to follow per client request 1/9/86.

cc: Al Szymanski, Plant Engineering

803939

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Corrion

January 28, 1986

Sample Received: 12/18/85

Hydro Number:	2143
Client I.D.:	No. 1 Prime White Diesel Fuel 11/8/85, Shipping No. 32-1500
Arsenic, As, mg/kg	<0.4
Cadmium, Cd, mg/kg	<0.3
Chromium, Total, Cr, mg/kg	2.8
Lead, Pb, mg/kg	<2.0
Chlorine (Total Halogens)	<500
Flash Pt. ^{o}F.	140
PCB's mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

Susan K. Scott
LABORATORY SUPERVISOR

803940

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Corrion

2/11/86

Sample received: 12/18/85

Hydro Number:	2144
Client I.D.:	#2 Fuel Oil #7 Tank Sample 11/14/85, Shipping #321500
Arsenic, As, mg/kg	<0.4
Cadmium, Cd, mg/kg	<0.4
Chromium, Total, Cr, mg/kg	6.3
Lead, Pb, mg/kg	<1.9
Total Halogens, as Chlorine, mg/kg	<500
Flash Point, °F.	162
PCB, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

Susan K Scott
LABORATORY SUPERVISOR

803941

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 North Washington Avenue
Saginaw, Michigan 48601
Attn: Al Corrion

February 19, 1986

Sample Received: 2-5-86

Hydro Number: 3700

Client I.D.: Reclaimed Phosphate Ester
10/31/85 - 1/30/86

	Clow Analytical Data	Petroleum Specialties Data
Flash Point °F (Actual)	380	480
Fire Point °F (Actual)	--	640
Neutralization #, mgKOH/gm	0.4	0.14

cc: Al Szymanski

Susan K. Scott
LABORATORY SUPERVISOR

03942

One Time/1

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 2A1 (416) 881-9880

February 25, 1986
Lab #06143
SF #2773
SR #9025

General Motors Central Foundry Div.,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corron, Receiver/Oil House Supervisor
Mr. A. Syzmanski, Plant Engineer

Dear Sirs:

These are the test results on a reclaimed sample of Phosphate Ester recycled through activated alumina and absolute filtration from the waste oil storage tank on February 18, 1986.

Tests	Typical GM Specifications	Recycled
Viscosity SSU @ 100°F	200 sec	204.3
Viscosity SSU @ 210°F	-	43.6
Flash Point °F	425 min	475
Fire Point °F	600 min	600
Specific Gravity @ 60°F	1.141	1.1450
Colour ASTM	Green	2.0
Neutralization Number mg KoH/g	0.15	0.03
% Water, ASTM Method D96	0.10%	0.0%
% Sediment, By Volume	0.03%	0.0%
PCB Content, PPM	5 ppm Max	0 ppm
Metals Calcium	50 ppm Max	1 ppm
Metals Sodium	100 ppm Max	1 ppm

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

James Szeto, B. Sc.,
Chemist

JS:le
Member of ASTM

803943

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
1629 N. Washington Avenue
Saginaw, MI 48601
Attn: Al Currier

March 7, 1986

P.O. #FC 19456

Sample received: 2-5-86

Hydro Number:	3682
Client I.D.:	#2 Fuel Oil #7 Tank 1-22-86
Arsenic, As, mg/kg	<0.3
Cadmium, Cd, mg/kg	<0.3
Chromium, Total, Cr, mg/kg	1.6
Lead, Pb, mg/kg	<1.4
Total Halogens, as Chlorine, mg/kg	<450
Flash Point, °F (Actual)	200
PCB, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

Susan K. Scott
LABORATORY SUPERVISOR

#2 Fuel Oil/1

03944

CLOW
HYDRO RESEARCH SERVICES
Water Management Division
Clow Corporation
408 Auburn Avenue
Pontiac, MI 48058
313 334-1630
313 334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 North Washington Avenue
Saginaw, Michigan 48601
Attn: Al Corrion

March 24, 1986

Sample Received: 2-5-86

Sample Number:	3660	3681
Client I.D.:	1-15-86 New Phosphate Ester	1-30-86 Used Phosphate Ester
Flash Point 'F	450	480
Fire Pint 'F (actual)	635	625
Flash Point 'F (actual)	415	195
Specific Gravity, g/ml	1.150	1.142
Viscosity at 100'F, SuS	176	145.3
Viscosity at 210'F, SuS	41.7	41
Bottom Sediment & Water		
Oil, %	100%	95.8
Solids, %	<0.1%	0.2%
Water, %	<0.1%	*
Nuetralization Number by ASTM 974, koh	<0.1	1.1
Color	lime yellow	green/brown
Physical Description	thin yellow oil	greenish/brown oil
Sodium, Na, mg/kg	42	22
Calcium, Ca, mg/kg	49	37
PCB by GC, mg/kg		
Aroclor 1242	<1	3
Aroclor 1254	--	--
Aroclor 1260	<1	<1
Water by distillation, %	--	<0.5

*Unable to perform analysis due to sample matrix.

cc: Al Szymanski
General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Ave.
Saginaw, MI 48606-5073

Susan K. Scott
LABORATORY SUPERVISOR

Prelim S/lr

803945

Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corrion, Receiver/Oil House Supervisor
Mr. A. Syzmanski, Plant Engineer

Dear Sirs:

These are the test results on a reclaimed sample of Phosphate Ester recycled through activated alumina and absolute filtration from the used oil storage tank on April 16, 1986.

Tests	Typical GM Specifications	Recycled
Viscosity SSU @ 100°F	200sec	202
Viscosity SSU @ 210°F	-	43.2
Flash Point °F	425 min	465
Fire Point °F	600 min	600
Specific Gravity @ 60°F	1.141	1.142
Colour ASTM	Green	2.0
Neutralization Number mg KoH/g	0.15	0.05
% Water ASTM Method D96 by Volume	0.10%	0.00%
% Sediment by Volume	0.03%	0.00%
PCB Content, ppm	5 ppm max	none
Metals Calcium	50 ppm max	1 ppm
Metals Sodium	100 ppm max	1 ppm

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

JS:le
Member of ASTM

James Szeto, B.Sc.,
Chemist

* ALL tests conducted under strict Federal Government and ASTM methods and procedures

03946

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455
A UNIT OF Dunlop

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-008

TEST DATE: 4-22-86

TO: AL CORRION
CENTRAL FOUNDRY DIVISION GMC
GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

PURCHASE ORDER NO. FG27558

SAMPLE IDENTIFICATION: PHOSPHATE ESTHER HYDRAULIC OIL

SAMPLE DATE: 3-3-86

LOCATION: ---

Specific Gravity @ 60/60°F. = 1.155

Flash (COC) = 510°F.

Fire (COC) = 615°F.

Water = TRACE

Sediment = TRACE

*Viscosity @ 100°F. = 41.26 SSU

TAN = 0.14

Calcium = 6 ppm

Sodium = 0 ppm

NOTE: **Results of tests performed are within specifications given except for viscosity. Results for PCB will follow.**

803947

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 6L5 (416) 881-9880

April 24, 1986
Lab #06210
SR# 9087
SF #2876

General Motors - Central Foundry Div.,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corrion, Receiver/Oil House Supervisor
Mr. A. Syzmanski, Plant Engineer

Dear Sirs:

These are the test results on a reclaimed sample of **Phosphate** Ester recycled through activated alumina and absolute filtration **from the** used oil storage tank on April 16, 1986.

Tests	Typical GM Specifications	Recycled
Viscosity SSU @ 100°F	200sec	202
Viscosity SSU @ 210°F	-	43.2
Flash Point °F	**425 min**	465
Fire Point °F	**600 min**	600
Specific Gravity @ 60°F	1.141	1.142
Colour ASTM	**Green**	2.0
Neutralization Number mg KoH/g	**0.15**	0.05
% Water ASTM Method D96 by Volume	**0.10%**	0.00%
% Sediment by Volume	**0.03%**	0.00%
PCB Content, ppm	**5 ppm max**	none
Metals Calcium	**50 ppm max**	1 ppm
Metals Sodium	**100 ppm max**	1 ppm

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

JS:le
Member of ASTM

James Szeto, B.Sc.,
Chemist

3948

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 6L5 (416) 881-9880

May 7, 1986
Lab #06229
SR #9095
SF #2890

General Motors - Central Foundry,
Gray Iron Saginaw Plant,
1629 North Washington Ave.,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corrion, Receiver/Oil Supervisor
Mr. A. Syzmanski, Plant Engineer

Dear Sirs:

These are the test results on a reclaimed sample of Phosphate Ester recycled through activated alumina and absolute filtration from the used oil storage tank on April 30, 1986.

Tests	Typical GM Specifications	Recycled
Viscosity SSU @ 100°F	200sec	197
Viscosity SSU @ 210°F	-	43.2
Flash Point °F	425 min	455
Fire Point °F	600 min	600
Specific Gravity @ 60 °F	1.141	1.140
Colour ASTM	Green	2.0
Neutralization Number mg KoH/g	0.15	0.047
% Water ASTM Method D96 by Volume	0.10%	0.0%
% Sediment by Volume	0.03%	0.0%
PCB Content, ppm	5ppm max	none
Metals Calcium	50ppm max	1 ppm
Metals Sodium	100 ppm max	1 ppm

Please note the viscosity appears to be off 3 seconds, it can be improved by blending in with a heavier grade ester.

Yours truly,

James Szeto, B.Sc.,
Chemist

JS:le
Member of ASTM

803949

* ALL tests conducted under strict Federal

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-008

TEST DATE: 5-15-86

PURHCASE ORDER NO. FG27558

TO: AL CORRION
CENTRAL FOUNDRY DIVISION GMC
SAGINAW GREY IRON PLANT
1629 NORTH WASHINGTON AVE
SAGINAW MI 48605-5073

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 5-3-86

LOCATION: PETROLEUM RECYCLING

API Gravity @ 60°F. = 1.155

Flash (COC) = 455°F.

Water = TRACE

Sediment = TRACE

Viscosity @ 100°F. = 200.3 SSU

Fire Point = 600°F.

TAN = 0.09

Calcium = 5 ppm

Sodium = 0 ppm

PCB = (REPORT TO FOLLOW)

3950

(PER PHONE)

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Duriron

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-008

TEST DATE: 5-15-86

PURCHASE ORDER NO. FG27558

TO: AL CORRION
CENTRAL FOUNDRY DIVISION GMC
SAGINAW GREY IRON PLANT
1629 NORTH WASHINGTON AVE
SAGINAW MI 48605-5073

AMENDED REPORT

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 5-3-86

LOCATION: PETROLEUM RECYCLING

PCB = <25 mg/kg as aroclor 1016

803951

Webb Laboratories

27 Harlech Court, Thornhill, Ontario L3T 6L5 (416) 881-9880

June 5, 1986
Lab #06260
SR #9130
SF #2944

General Motors - Central Foundry,
Gray Iron Saginaw Plant,
1629 North Washington Avenue,
Saginaw, Michigan
48605 - 5073

Attention: Mr. Al Corrion, Receiver/Oil Supervisor
Mr. A. Syzmanski, Plant Engineer

Dear Sirs,

These are the tests on a reclaimed sample of Phosphate Ester recycled through activated alumina and absolute filtration from the used oil storage tank on May 30, 1986.

Tests	Typical GM Specifications	Recycle
Viscosity SSU @ 100°F	200sec	201
Viscosity SSU @ 210°F	-	43.2
Flash Point °F	425 min	470
Fire Point °F	600 min	600
Specific Gravity @ 60°F	1.141	1.135
Colour ASTM	Green	Green 2
Neutralization Number mg KoH/g	0.15	0.045
% Water ASTM Method D96 by Volume	0.10%	0.0%
% Sediment by Volume	0.03%	0.0%
PCB Content, ppm	5ppm max	none
Metals Calcium	50 ppm max	1 ppm
Metals Sodium	100 ppm max	1 ppm

From the above tests conducted, it is my considered opinion that this product meets the typical properties required, and can be used for the purpose originally intended.

Yours truly,

James Szeto, B.Sc.,
Chemist

JS:le
Member of ASTM

952

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-008

TEST DATE: 6-6-86

PURCHASE ORDER NO. FG27558

TO: A CORRION
CENTRAL FOUNDRY DIVISION GMC
SAGINAW GREY IRON PLANT
1629 NORTH WASHINGTON AVENUE
SAGINAW MI 48605-5073

SAMPLE IDENTIFICATION: PHOSPATE ESTER

SAMPLE DATE: 5-29-86

LOCATION: ---

API Gravity @ 60°F. = 1.142

Flash (COC) = 500°F.

Fire (COC) = 610°F.

Water = NIL

Sediment = TRACE

Viscosity @ 100°F. = 209.52 SUS

Viscosity @ 210°F. = 42.61 SUS

Total Acid No. = 0.18

PCB = (Report to Follow)

Calcium = 3 ppm

Sodium = 0 ppm

803953

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-002

TEST DATE: 8-11-86

P.O. NO.: FG27558

TO: AL CORRION - RECEIVING DEPARTMENT
CENTRAL FOUNDRY DIVISION - GMC
SAGINAW GREY IRON PLANT
1629 NORTH WASHINGTON AVENUE
SAGINAW MI 48605-5073

SAMPLE IDENTIFICATION: USED PHOSPHATE ESTHER

SAMPLE DATE: 7-31-86

LOCATION: -------

Specific Gravity @ 60/60°F = 1.144

Flash (COC) = 485°F

Fire Point = 600°F

Water = 0.01%

Sediment = 0.01%

Viscosity @ 100°F = 203.8 sus

Viscosity @ 210°F = 42.81 sus

Total Acid Number = 0.09

Calcium = 2ppm

Sodium = 0ppm

803954

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quincy

SPECTRA-CHECK TEST REPORT

CLIENT NO. 2366-008

TO: AL CORRION-RECEIVING DEPARTMENT
CENTRAL FOUNDRY DIVISION
SAGINAW GREY IRON PLANT
1629 NORTH WASHINGTON AVENUE
SAGINAW MI 48605-5073

TEST DATE: 8-29-86

P.O. NO.: FG27558

AMMENDED REPORT

SAMPLE IDENTIFICATION: USED PHOSPHATE ESTHER

SAMPLE DATE: 7-31-86

LOCATION: -------

PCBs (as Arochlor 1242) = 10ppm
None detected

803955

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION - GMC
GREY IRON PLANT
1629 NORTH WASHINGTON AVENUE
SAGINAW MI 48605-5073

CLIENT NO. 2366-008

TEST DATE: 10-3-86

AMENDED REPORT

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: ~~9-30-86~~

LOCATION: -------

Specific Gravity @ 60/60°F = 1.146

Flash (COC) = 460°F

Water = 0.1%

Sediment = TRACE

Viscosity @ 100°F = 210.4 SUS

TAN (Total Acid Number) = 0.08

Fire Point = 600°F

P.C.B. = 3 mg/kg

Sodium = 0ppm

Calcium = 4ppm

803956

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
SAGINAW GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 10-17-86

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 10-10-86

LOCATION: -------

Flash (COC) = 450°F

Fire Point = 540°F

Water = NIL

Sediment = NIL

Viscosity @ 100°F = 208.0 SUS

Total Acid Number (TAN) = 0.21

SIB 600

SIB .15

Calcium = 3ppm

Sodium = 0ppm

PCB =

803957

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
SAGINAW GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 10-27-86

P.O. NO.: FG27558

AMENDED REPORT

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 10-10-86

LOCATION: --------

Flash (COC) = 450°F

Fire Point = 605°F

Water = NIL

Sediment = NIL

Viscosity @ 100°F = 208.0 SUS

Total Acid Number (TAN) = 0.13

Calcium = 3ppm

Sodium = 0ppm

PCB = <1 mg/kg

3958

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455
A UNIT OF Quaker

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 11-18-86

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 11-12-86

LOCATION: ------

Specific Gravity @ 60/60°F = 1.140

Flash (COC) = 470°F

Fire Point = 605°F

Water = NIL

Sediment = TRACE

Viscosity @ 100°F = 201.7 SUS

Neutralization No. = 0.14

Silicon = 3ppm

Calcium = 3ppm

Sodium = 0ppm

803959

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 12-03-86

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 11-15-86

LOCATION: --------

Specific Gravity @ 60/60°F = 1.137

Flash (COC) = 480°F

Fire (COC) = 620°F

Water = NIL

Sediment = TRACE

Viscosity @ 100°F = 212.1 SUS

Neutralization Number = 0.09

Calcium = 0ppm

Sodium = 0ppm

PCB =

03960

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK FUEL TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 12-04-86

P.O. NO.: FG27558

12/14/86

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 11-26-86

LOCATION:

Specific Gravity @ 60/60°F = -1.140

Flash (COC) = 480°F

Fire = 615°F

Water = NIL

Sediment = NIL

Viscosity @ 100°F = 221.1 SUS

Neutralization No. = 0.14

Calcium = 2ppm

Sodium = 0ppm

PCB =

803961

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 12-12-86

P.O. NO.: FG 27558

AMENDED REPORT

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 11-15-86

LOCATION: -------

Specific Gravity @ 60/60°F = 1.137

Flash (COC) = 480°F

Fire (COC) = 620°F

Water = NIL

Sediment = TRACE

Viscosity @ 100°F = 212.1 SUS

Neutralization Number = 0.09

Calcium = 0ppm

Sodium = 0ppm

PCB = None Detected
<10 mg/kg

803962

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO. 2366-008

TEST DATE: 1-08-87

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: PHOSPHATE ESTER - RECLAIMED

SAMPLE DATE: 12-19-86

LOCATION: ---------

Specific Gravity @ 60/60°F = 1.140

Flash (COC) = 500°F

Fire (COC) = 630°F

Water = TRACE

Sediment = TRACE

Viscosity @ 100°F = 211.0 SUS

Total Acid Number (TAN) = 0.05

PCB =

Calcium = 4ppm

Sodium = 0ppm

803963

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 2-10-87

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 1-26-87

LOCATION: ~~RECLAIM~~ NEW

Specific Gravity @ 60/60°F = 1.127

Flash (COC) = 480°F

Fire (COC) = 620°F

Water = NIL

Sediment = NIL

Viscosity @ 100°F = 244.3 SUS

Total Acid Number = 0.12

Calcium = 0ppm

Sodium = 0ppm

PCB =

003964

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 2-10-87

P.O.NO.: FG27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 1-30-87

LOCATION: RECLAIM

API Gravity @ 60/60°F = 1.138

Flash (COC) = 480°F

Fire (COC) = 615°F

Water = NIL

Sediment = NIL

Viscosity @ 100°F = 220.8 SUS

Total Acid Number = 0.14

Calcium = 0ppm

Sodium = 0ppm

PCB =

803965

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 645

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 3-19-87

P.O. NO.: FG27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 3-04-87

LOCATION: -------

Specific Gravity @ 60/60°F = 1.133

Flash (COC) = 460°F

Fire Point (COC) = 610°F

Water = 0.01%

Sediment = TRACE

Viscosity @ 100°F = 219.1 SUS

Neutralization Number = 0.08

Calcium = 3ppm

Sodium = 0ppm

803966

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 6455

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 4-30-87

P.O. NO.: FG 27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 4-24-87

LOCATION: ------

Specific Gravity @ 60/60°F = 1.144

Flash (COC) = 450°F

Fire Point = 605°F

Water = TRACE

Sediment = NIL

Viscosity @ 100°F = 220.4 SUS

Neutralization Number = 0.08

Calcium = 0 ppm

Sodium = 1 ppm

PCB ?

803967

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 64

SPECTRA-CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N. WASHINGTON AVENUE
GREY IRON PLANT
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 5-14-87

AMENDED REPORT

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 4-24-87

LOCATION: -------

Specific Gravity @ 60/60°F = 1.144

Flash (COC) = 450°F

Fire Point = 605°F

Water = TRACE

Sediment = NIL

Viscosity @ 100°F = 220.4 SUS

Neutralization Number = 0.08

Calcium = 0 ppm

Sodium = 1 ppm

PCB = None Detected

03968

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR. AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 6-30-87

P.O. NO: FG 27558

SAMPLE IDENTIFICATION: RECLAIM PHOSPHORUS ESTER

SAMPLE DATE: 6-26-87

LOCATION: OIL HOUSE #4 TANK

Specific Gravity @ 60/60°F = 1.133

Flash (COC) = 470°F

Fire Point (COC) = 590°F

Water = TRACE

Sediment = NIL

Viscosity @ 100°F = 206.4 SUS

Neutralization No. = 0.19

P.C.B. =

Calcium = 0 ppm

Sodium = 2 ppm

803969

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 6455

SPECTRA-CHECK FUEL TEST REPORT

#708063

TO: MR. AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
SAGINAW GREY IRON PLANT
1629 WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO. 2366-008

TEST DATE: 8-06-87

P.O. NO.: FG 27558

SAMPLE IDENTIFICATION: RECYCLED PHOSPHATE ESTER

SAMPLE DATE: 7-21-87

LOCATION: HOUGHTON 1120 HYDRAULIC OIL

API Gravity @ 60/60°F = 1.22

Flash (COC) = 480°F

Fire Point = 590°F

Water = TRACE

Sediment = TRACE

Viscosity @ 100°F = 213.4 SUS

Neutralization Number = 0.14

MAJOR ELEMENTS

Calcium = 0 ppm

Sodium = 0 ppm

03970

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR. AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO: 2366-008

TEST DATE: 11-30-87

P.O. No: F708063

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 11-04-87

LOCATION: --------

Specific Gravity @ 60/60°F (ASTM D-1298) = 1.220

Flash (COC)(ASTM D-92) = 480°F

Fire Point (ASTM D-92) = 610°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = TRACE

Viscosity @ 100°F (ASTM D-445) = 212.4 SUS

Total Acid No. (ASTM D-664) = 0.043

MAJOR ELEMENTS PRESENT

Calcium = 12ppm

Sodium = 5ppm

PER PHONE

803971

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA-CHECK TEST REPORT

TO: MR. AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
GREY IRON PLANT
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO: 2366-008

TEST DATE: 1-18-88

P.O. No: F708063

Copy to:
Reclamation Services

SAMPLE IDENTIFICATION: PHOSPHATE ESTER HYDRAULIC (recycled)

SAMPLE DATE: 12-16-87

LOCATION: --------

Specific Gravity @ 60/60°F = 1.113

Flash (COC)(ASTM D-92) = 465°F

Fire Point = 605°F

% Water (Karl Fischer)(ASTM D-1744) = 0.095%

% Sediment (ASTM D-96) = NIL

Viscosity @ 100°F (ASTM D-445) = 206.7 SUS

Total Acid Number (ASTM D-974) = 0.10%

PCB = None Detected

MAJOR ELEMENTS PRESENT

Calcium = 0 ppm

Sodium = 0 ppm

803972

Petro Laboratories
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

February 2, 1988
Lab No. 45490

Central Foundry Division
General Motors Corp.
P.O. Box 5079
Saginaw, Michigan
48605-5079

TEST PERFORMED FOR:
Reclamation Services
Downsview, Ontario

Attention: Mr. Al Szymanski

Dear Sir:

Below please find test results for Properties and Specifications on a sample of phosphate Ester Hydraulic Fluid from Reclamation stock oil.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425°F Min.	470°F
Fire Point	ASTM D92	600°F Min.	600°F
Specific Gravity @60°F	ASTM D1298	1.141	1.135
Viscosity, SUS 100°F	ASTM D445	200 Min.	215
Water %	ASTM D96	.10% Max.	0.0%
Sediment %	ASTM D96	.03% Max.	0.0%
Neutralization No. mg KoH/g	ASTM D974	.15	0.10
P.C.B.	EPA Method	5 ppm Max.	None
Calcium	-	50 ppm Max.	-
Sodium	-	100 ppm Max.	-
Pour Point	ASTM D97	-	-5°F
Colour	ASTM D1500	-	Green

Yours truly,

James Szeto, B.Sc.,
Chief Chemist

Member of ASTM
JS/ms

73

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA-CHECK TEST REPORT

TO: MR. AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
SAGINAW GREY IRON PLANT
1629 N. WASHINGTON AVENUE
SAGINAW, MI 48605

CLIENT NO: 2366-008

TEST DATE: 3-02-88

P.O. NO.: 72299

Copy to:
RECLAMATION SERVICES

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: UNKNOWN

LOCATION: ---------

Specific Gravity @ 60/60°F (ASTM D-1122) = 1.141

Flash (COC)(ASTM D-92) = 520°F

Fire (COC)(ASTM D-92) = 630°F

Viscosity @ 40°C (ASTM D-445) = 42.9 cSt

Viscosity @ 104°F (ASTM D-445) = 200.2 SUS

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = NIL

Total Acid Number (ASTM D-664) = 0.06

PCB (EPA Method) = < 0.1 ppm, non-detectable

SPECTROCHEMICAL ANALYSIS:

Calcium = 3 ppm

Sodium = 0 ppm

803974

Petro Laboratories

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

March 23, 1988
Lab No. 45500
Sr#001082

Central Foundry Division
General Motors Corporation
P.O. Box 5079
Saginaw, Michigan
48605-5079

TEST PERFORMED FOR:
RECLAMATION SERVICES
BRAMPTON, ONTARIO

Attention: Mr. Al Szymanski

Dear Sir:

Below please find test results for Properties and Specifications on a sample of "Houghton" Phosphate Ester Hydraulic Fluid recycled from your used oil holding tank on March 11, 1988.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425°F min	470°F
Fire Point	ASTM D92	600°F min	540°F
Specific Gravity @60°F	ASTM D1298	1.141	1.110
Viscosity, SUS @100°F	ASTM D445	200 min	210
Water %	ASTM D96	.10% max	0.0%
Sediment %	ASTM D96	.03% max	0.0%
Neutralization No. Mg KoH/g	ASTM D974	.15	0.02
P.C.B.	EPA Method	5 ppm max	-
Calcium	-	50 ppm max	-
Sodium	-	100 ppm max	-
Pour Point	ASTM D97	-	0°F
Colour	ASTM D1500	-	Green

Yours truly,

James Szeto, B.SC.,
Chief Chemist

JS/ms
Member of ASTM

803975

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards,

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA CHECK FUEL TEST REPORT

TO: AL CORRION-REC'D DEPT
CENTRAL FOUNDRY DIV GMC
GREY IRON PLANT
1629 N WASHINGTON AVE
SAGINAW MI 48605

LAB NO: 4-469

CLIENT NO: 2366-008

TEST DATE: 4-25-88

cc: Reclamation Services

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: 4-15-88

LOCATION: ---

Specific Gravity @ 60/60°F = 1.122

Flash (COC)(ASTM D-92) = 465°F

Flash and Fire Point (ASTM D-92) = 605°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = NIL

Viscosity @ 40°C (ASTM D-445) = 202.2 SUS (@104°F)

Total Acid No. = 0.05

PCB = None detected

Calcium = 0 ppm

Sodium = 0 ppm

803976

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA CHECK FUEL TEST REPORT

LAB NO: 5-69

TO: MR AL CORRION
CENTRAL FOUNDRY DIV
GENERAL MOTORS CORP
1629 N WASHINGTON AVE
SAGINAW MI 48605

CLIENT NO: 2366-008

TEST DATE: 5-20-88

cc: Reclamation Services

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: UNKNOWN

LOCATION: NONE

Specific Gravity @ 60/60°F = 1.123

Flash (COC)(ASTM D-92) = 490°F

Flash and Fire (COC) (ASTM D-92) = 620°F

BS&W = TRACE

Viscosity @ 100°F (ASTM D-445) = 200.5 SUS

Total Acid No. (ASTM D-664) = 0.11

PCB = None detected

Calcium = 0 ppm

Sodium = 0 ppm

803977

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

LAB NO: 6-537

TO: MR AL CORRION
CENTRAL FOUNDRY DIV
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO: 2366-008

TEST DATE: 6-21-88

cc: Reclamation Services

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE INFORMATION: NONE

SAMPLE DATE: UNKNOWN

Specific Gravity @ 60/60°F = 1.124

Flash (COC)(ASTM D-92) = 470°F

Flash (FIRE)(ASTM D-92) = 645°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = TRACE

Viscosity @ 40°C (ASTM D-445) = 187.9 SUS

Total Acid Number (ASTM D-664) = 0.10

PCB = NONE DETECTED

Calcium = 2 ppm

Sodium = 0 ppm

803978

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI $8605

LAB NO: 6-648

CLIENT NO: 2366-008

TEST DATE: 6-30-88

cc: Reclamation Services

* AMENDED REPORT

SAMPLE IDENTIFICATION: Phosphate Ester Hyd. Fluid

SAMPLE INFORMATION: Batch #2 P.O. # 72346

SAMPLE DATE: UNKNOWN

Specific Gravity @ 60/60°F = 1.1316

Flash (COC)(ASTM D-92) = 480°F

% Water (Karl Fischer)(ASTM D-1744) = 0.09%

BS & W = NIL

Viscosity @ 100°F (ASTM D-445) = 212.2 SUS

Fire (ASTM D-92) = 600°F

* Total Acid Number (ASTM D-664) = 0.10

PCB Content = NONE DETECTED

Calcium = 0 ppm

Sodium = 0 ppm

003979

Petro Laboratories
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

CUSTOMER: Reclamation Services

July 18, 1988
Lab No. 45535

Performed for:

Central Foundry Division
General Motors Corp.
P.O. Box 5079
Saginaw, Michigan
48605-5079

Attention: Mr. Al Corrion

Dear Sir:

Below please find test results for Properties and Specifications on a batch of "Phosphate Ester" hydraulic fluid delivered to your plant on July 7,1988.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash	ASTM D92	425°F min	465
Fire Point	ASTM D92	600°F min	600
Specific Gravity @60°F	ASTM D1298	1.141	1.120
Viscosity, SUS @100°F	ASTM D445	200 min	203
Water %	ASTM D96	.10% max	0.0%
Sediment %	ASTM D96	.03% max	0.0%
Neutralization No. Mg KoH/g	ASTM D974	.15	0.1
P.C.B.	EPA Method	5 ppm max	0
Calcium	-	50 ppm max	0
Sodium	-	100 ppm max	0
Colour	ASTM D1500	-	4.5

Yours truly,

James Szeto, B.Sc.,
Chief Chemist

JS/ms
Member of ASTM

803980

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 7-237

CLIENT NO: 2366-008

TEST DATE: 7-27-88

cc: Reclamation Services

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE INFORMATION: 5,000 gal. load rec'd 7-08-88

SAMPLE DATE: 7-08-88

Specific Gravity @ 60/60°F = 1.130

Flash (COC)(ASTM D-92) = 480°F

Flash (FIRE)(ASTM D-92) = 660°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = NIL

Viscosity @ 40°C (ASTM D-445) = 186.9 SUS

Total Acid Number (ASTM D-664) = 0.06

PCB = NONE DETECTED

Calcium = 10 ppm

Sodium = 0 ppm

3981

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK FUEL TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 8-129
CLIENT NO: 2366-008
TEST DATE: 8-05-88
cc: Mel Ash

* AMENDED REPORT

SAMPLE IDENTIFICATION: PHOSPHATE ESTER
SAMPLE DATE: UNKNOWN
LOCATION: NONE

Specific Gravity @ 60/60°F = 1.115

Flash (COC)(ASTM D-92) = 470°F

Flash (FIRE)(ASTM D-92) = 605°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = NIL

* Viscosity @ 100°F (ASTM D-445) = 201.0 SUS

Total Acid Number (ASTM D-664) = 0.03

PCB = NONE DETECTED

Calcium = 1 ppm

Sodium = 0 ppm

803982

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110 2196 • (216) 451 6455

SPECTRA CHECK FUEL TEST REPORT

LAB NO: 8-129

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

CLIENT NO: 2366-008

TEST DATE: 8-05-88

cc: Mel Ash

SAMPLE IDENTIFICATION: PHOSPHATE ESTER

SAMPLE DATE: UNKNOWN

LOCATION: NONE

Specific Gravity @ 60/60°F = 1.115

Flash (COC)(ASTM D-92) = 470°F

Flash (FIRE)(ASTM D-92) = 605°F

% Water (ASTM D-96) = NIL

% Sediment (ASTM D-96) = NIL

Viscosity @ 40°C (ASTM D-445) = 182.3 cSt

Total Acid Number (ASTM D-664) = 0.03

PCB = NONE DETECTED

Calcium = 1 ppm

Sodium = 0 ppm

0983

Petro Laboratories
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division,
General Motors Corporation,
P.O. Bos 5079,
Saginw, Michigan
48605-5079

TEST PERFORMED FOR:
RECLAMATION SERVICES
BRAMPTON,ONTARIO

Date: Aug.24, 1988

Report No.: 45543

Attention: Mr. Al Corrion

Dear Sir:

Below please find test results for Properties and Specifications on a sample of "Houghton: Phosphate Ester Hydraulic Fluid" recycled from your used oil holding tank on July 29, 1988.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425°F min	460
Fire Point	ASTM D92	600°F min	600
Specific Gravity @ 60°F	ASTM D1298	1.141	1.115
Viscosity, SUS @100°F	ASTM D445	200 min	202
Water %	ASTM D96	.10% max	0.0%
Sediment %	ASTM D96	.03% max	0.0%
Neutralization NO. Mg KoH/g	ASTM D974	.15	0.12
P.C.B.	EPA Method	5 ppm max	0
Calcium	-	50 ppm max	-
Sodium	-	100 ppm max	-
Colour	ASTM D1500	-	4.0(greenish amber)

Yours truly,

James Szeto, B.Sc.,
Chemist

Member of ASTM
JS/lg

803984

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 10-359

CLIENT NO: 2366-008

TEST DATE: 10-14-88

TYPE OF SAMPLE: PHOSPHATE ESTER

SAMPLE IDENTIFICATION: P.O. NO. 720736

SAMPLE DATE: UNKNOWN

SPECIFIC GRAVITY @ 60/60 F (ASTM D-1122) = 1.138

FLASH POINT (COC) (ASTM D-92) = 490 F

FLASH POINT (FIRE) (COC) (ASTM D-92) = 610 F

% WATER (ASTM D-96) = <0.01%

% SEDIMENT (ASTM D-96) = <0.01%

VISCOSITY @ 100 F (ASTM D-445) = 200.5 SUS

TOTAL ACID NUMBER (ASTM D-664) = 0.10

PCB = <1.0 PPM

SODIUM = 1 PPM

CALCIUM = 0 PPM

CC: MEL ASH

3985

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 10-360
CLIENT NO: 2366-008
TEST DATE: 10-14-88

TYPE OF SAMPLE: PHOSPHATE ESTER
SAMPLE IDENTIFICATION: 2,045 GALLONS
SAMPLE DATE: UNKNOWN

SPECIFIC GRAVITY @ 60/60 F (ASTM D-1122) = 1.130
FLASH POINT (COC) (ASTM D-92) = 490 F
FLASH POINT (FIRE) (COC) (ASTM D-92) = 605 F
% WATER (ASTM D-96) = <0.01%
% SEDIMENT (ASTM D-96) = <0.01%
VISCOSITY @ 100 F (ASTM D-445) = 200.2 SUS
TOTAL ACID NUMBER (ASTM D-664) = 0.11
PCB = <1.0 PPM
SODIUM = 3 PPM
CALCIUM = 0 PPM

CC: MEL ASH

803986

CLEVELAND TECHNICAL CENTER, INC.
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 11-354

CLIENT NO: 2366-008

TEST DATE: 11-14-88

TYPE OF SAMPLE: PHOSPHATE ESTER

SAMPLE IDENTIFICATION: P.O. NO: F 702040

SAMPLE DATE: 9-28-88

SPECIFIC GRAVITY 60/60 F = 1.116

FLASH POINT (COC) (ASTM D-92) = 475 F

FIRE POINT (ASTM D-92) = 610 F

% WATER (ASTM D-96) = <0.01%

% SEDIMENT (ASTM D-96) = <0.01%

VISCOSITY @ 100 F (ASTM D-445) = 200.0 SUS

TOTAL ACID NUMBER (ASTM D-664) = 0.10

CALCIUM = 0 PPM

SODIUM = 0 PPM

PCB = NONE DETECTED

3987

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451 6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP.
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 2-157
CLIENT NO: 2366-008
TEST DATE: 02-06-89

TYPE OF SAMPLE: PHOSPHATE ESTER
SAMPLE IDENTIFICATION: SERVICE REC. # 001171
SAMPLE DATE: 01-11-89

SPECIFIC GRAVITY @ 60/60 F = 1.135
FLASH (COC) (ASTM D-92) = 430 F
FLASH (FIRE) (ASTM D-92) = 605 F
% WATER (ASTM D-96) = <0.01%
% SEDIMENT (ASTM D-96) = <0.01%
VISCOSITY @ 100 F (ASTM D-445) = 200.00 SUS
TOTAL ACID NUMBER (ASTM D-664) = 0.11
PCB = NONE DETECTED
CALCIUM = 3 PPM
SODIUM = 0 PPM

CC: MEL ASH

803989

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 3-378

CLIENT NO: 2366-008

TEST DATE: 03-16-89

TYPE OF SAMPLE: PHOSPHATE ESTER

SAMPLE IDENTIFICATION: NEW HOUGHTON 1120

SAMPLE DATE: 02-10-89

SPECIFIC GRAVITY @ 60 F = 1.118

FLASH (COC) (ASTM D-92) = 460 F

FIRE (COC) (ASTM D-92) = 605 F

% WATER (ASTM D-96) = <0.01%

% SEDIMENT (ASTM D-96) = <0.01%

VISCOSITY @ 100 F (ASTM D-445) = 201.5 F

TOTAL ACID NUMBER (ASTM D-664) = 0.01

PCB = NONE DETECTED

MAJOR ELEMENTS PRESENT

CALCIUM = 0 PPM

SODIUM = 35 PPM

CC: MEL ASH

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

CUSTOMER: Reclamation Services

DATE: April 13, 1989

LAB NO.: 45605

PREPARED FOR:
Central Foundry Division
General Motors Corporation
P.O. Box 5073,
1629 N. Washington Ave.,
Saginaw, Michigan
48605-5073

Attention: Mr. Al Corrion

Dear Sir:

Below please find test results for Properties and Specifications on a sample of "Houghton Phosphate Ester Hydraulic Fluid, recycled from your used oil holding tank on April 5, 1989.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425 °F min	460
Fire Point	ASTM D92	600°F min	600
Specific Gravity @60°F	ASTM D1298	1.141	1.120
Viscosity, SUS @100°F	ASTM D445	200 min	204
Water %	ASTM D96	.10 % max	0.00%
Sediment %	ASTM D96	.03% max	0.00%
Neutralization No. mg KoH/g	ASTM D974	.15	0.05

Yours truly,

James Szeto, B.Sc.,
Chief Chemist

JS/lg
Member of ASTM

803991

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

CLIENT: Reclamation Services

DATE: May 30, 1989

LAB #: 45613

PREPARED FOR:
Central Foundry Division
General Motors Corporation,
P.O. Box 5073,
Saginaw, Michigan
48605-5073

Attention: Mr. Al Corrion

Dear Sir:

Below please find test results for Properties and Specifications on a sample of "Houghton" Phosphate Ester Hydraulic Fluid, recycled from your used oil holding tank on May 19, 1989.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425 °F min	455
Fire Point	ASTM D92	600°F min	600
Specific Gravity @60°F	ASTM D1298	1.141	1.1150
Viscosity,SUS @100°F	ASTM D445	200 min	201
Water %	ASTM D96	.10 % max	0.0%
Sediment %	ASTM D96	.03% max	0.0%
Neutralization No. Mg KoH/g	ASTM D974	.15	0.04
P.C.B.	EPA Method	5 ppm max	None
Calcium	-	50 ppm max	-
Sodium	-	100 ppm max	-

Yours truly,

James Szeto, B.Sc.,
Chief Chemist

JS/lg
MEMBER OF ASTM

03992

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

CLIENT: Reclamation Services

DATE: July 5, 1989

LAB NO.: 45625

PREPARED FOR:
Central Foundry Division
General Motors Corporation,
P.O. Box 5073,
Saginaw, Michigan
48605-5073

Attention: Mr. Al Corrion

Dear Sir:

Below please find test results for Properties and Specifications on a sample of "Houghton" Phosphate Ester Hydraulic Fluid recycled from your used oil holding tank on June 21, 1989.

TESTS	ASTM METHOD	G.M SPECIFICATIONS	RESULTS
Flash Point	ASTM D92	425°F min	465
Fire Point	ASTM D92	600°F min	600
Specific Gravity @60°F	ASTM D1298	1.141	1.110
Viscosity, SUS @100°F	ASTM D445	200 min	201
Water %	ASTM D96	.10% max	0.0%
Sediment %	ASTM D96	.03% max	0.0%
Neutralization No. mg KoH/g	ASTM D974	.15	0.14
P.C.B.	EPA Method	5 ppm max	-
Calcium	-	50 ppm max	-
Sodium	-	100 ppm max	-
Pour Point	ASTM D97	-	5°F
Colour	ASTM D1500	-	4.5

Yours truly,

James Azeto, B.Sc.,
Chief Chemist

JS/lg
Member of ASTM

803993

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 7-80 & 7-81
CLIENT NO: 2366-008
TEST DATE: 07-06-89

TYPE OF SAMPLE: PHOSPHATE ESTER

SAMPLE DATE: UNKNOWN

SAMPLE DATA	% WATER (ASTM D-96)	% SEDIMENT (ASTM D-96)
NEW SAMPLE	0.32%	0.50%
2ND SAMPLE	0.23%	0.20%

RESULTS REPORTED BY FAX.

003994

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 7-185
CLIENT NO: 2366-008
TEST DATE: 07-11-89
P.O. NO: F-719482

TYPE OF SAMPLE: PHOSPHATE ESTER
SAMPLE IDENTIFICATION: NEW
SAMPLE DATE: 06-20-89

SPECIFIC GRAVITY @ 60 F (ASTM D-1122) = 1.120
FLASH (COC) (ASTM D-92) = 475 F
FIRE (COC) (ASTM D-92) = 600 F
* % WATER (ASTM D-96) = 0.32%
* % SEDIMENT (ASTM D-96) = 0.50%
VISCOSITY @ 100 F (ASTM D-445) = 201.5 SUS
TOTAL ACID NUMBER (ASTM D-664) = 0.14
P C B CONTENT = (1
CALCIUM = 0 PPM
SODIUM = 1 PPM

* NOTE: WATER CONTENT EXCEEDS MAXIMUM SPECIFICATION

CC: MEL ASH

803995

CLEVELAND TECHNICAL CENTER
13600 DEISE AVENUE • CLEVELAND, OHIO 44110-2196 • (216) 451-6455

SPECTRA CHECK TEST REPORT

TO: MR AL CORRION
CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORP
1629 N WASHINGTON AVENUE
SAGINAW MI 48605

LAB NO: 7-186
CLIENT NO: 2366-008
TEST DATE: 07-11-89
P.O. NO: F-719482

TYPE OF SAMPLE: PHOSPHATE ESTER
SAMPLE IDENTIFICATION: USED (RECLAIMED) - HOLDING -
SAMPLE DATE: 06-20-89

SPECIFIC GRAVITY @ 60 F (ASTM D-1122) = 1.123
FLASH (COC) (ASTM D-92) = 450 F
FIRE (COC) (ASTM D-92) = 600 F
* % WATER (ASTM D-96) = 0.23%
* % SEDIMENT (ASTM D-96) = 0.20%
VISCOSITY @ 100 F (ASTM D-445) = 200.3 SUS
TOTAL ACID NUMBER (ASTM D-664) = 0.13
P C B CONTENT = <1
CALCIUM = 0 PPM
SODIUM = 1 PPM

* NOTE: WATER CONTENT EXCEEDS MAXIMUM SPECIFICATION

CC: MEL ASH

803996

F731575

Petro Laboratories

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

July 13, 1989

Central Foundry Division
General Motors Corporation,
P.O. Box 5073,
Sagniaw, Michigan
48605-5073

Attention: Mr. Al Corrion

Dear Sir:

Thank-you for the opportunity to quote on the following laboratory services to determine the properties and specifications on Phosphate Ester Hydraulic Fluids.

We will perform the following tests as outlined to the following GM Specifications and format.

TESTS	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425 min.	
2. Fire Point	D92	600 min.	
3. Specific Gravity @ 60°F	D1298	1.141	
4. Viscosity, SUS @ 100°F	D445	200 min.	
5. % Water	D96	0.10% max.	
6. % Sediment	D96	0.03% max.	
7. Total Acid No.	D974	0.15	
8. PCB Content	EPA Method	5 ppm max.	
9. Calcium in ppm		50 ppm max.	
10. Sodium in ppm		100 ppm max.	

The cost for the complete analysis on each sample is $250.00 (US. Funds). Sample bottles and package material can be supplied by us at cost.

Most of the test results are usually available within 48 hours, and the results can be faxed, mailed or telephoned, as required. I remain

Yours very truly,

James Szeto, B.Sc.,
Chief Chemist

JS/lg
Member of ASTM

803997

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: September 6,1989

Lab number: 7180

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : September 5,1989.
This sample is reclyced from your used oil holding tank on August 28,1989 by Reclamation Services , Service Receipt#001221

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	450
2. Fire Point	D92	600°F Min.	600
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS@100F	D445	200 SSU Min.	210
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.0%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.08
8.PCB content	EPA method	Less than 1 ppm	0.0 (less than 1 ppm)
9. Calcium , in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium in ppm	by AA	100 ppm Max.	2 ppm
11. Mineral Oil	Methanol Split	1% Max.	0.0%

Yours truly,

James [illegible]zeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

98

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: September 29,1989

Lab number: 7222

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester processed by Amber oil September 26,89.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	455
2. Fire Point	D92	600°F Min.	580
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	185
5. % Water	D96	0.10% Max.	0.0%(Free water 0.30%(dissolved-
6. % Sediment	D96	0.03% Max.	0.00% water)
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.335
8.PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	0.0
10. Sodium in ppm	by AA	100 ppm Max.	2
11. Mineral Oil	Methanol Split	1% Max.	4.5%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

803999

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 13,1989

Lab number: 7249

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from New fluid delivery on October 2,1989.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	455
2. Fire Point	D92	600°F Min.	600
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.260
4. Viscosity, SUS@100F	D445	200 SSU Min.	226
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.06
8.PCB content	EPA	Less than 1 ppm	None detected
9. Calcium , in ppm	by AA	50 ppm Max.	1 ppm
10. Sodium in ppm	by AA	100 ppm Max.	0 ppm
11. Mineral Oil	Methanol Split	1% Max.	0

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

000

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 17,1989

Lab number: 7250

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 16,1989
This sample is reclyced from your used oil holding tank on October 13,1989 by Reclamation Services , Service Receipt# 001257

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460°F
2. Fire Point	D92	600°F Min.	640°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.085
4. Viscosity, SUS@100F	D445	200 SSU Min.	206
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.0%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.13
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium in ppm	by AA	100 ppm Max.	2 ppm
11. Mineral Oil	Methanol Split	1% Max.	5.5%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

804001

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 30,1989

Lab number: 7270

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from a tanker shippment supplied by Reclamation Services on October 27,1989, Re: P.O. no. F73Z312

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	425
2. Fire Point	D92	600°F Min.	640
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.120
4. Viscosity, SUS@100F	D445	200 SSU Min.	216
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.06
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1 ppm
10. Sodium in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral Oil	Methanol Split	1% Max.	0.0%

Yours truly,

James [illegible]to, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

1002

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989

CLIENT: Reclamation Services

DATE: November 29, 1989

LAB NO.: 45686

PREPARED FOR:
Central Foundry Div. G.M.C.,
1629 N. Washington Ave.,
P.O. Box 5073,
Saginaw, Michigan
48605-5073

Attention: Mr. John Sullivan

Dear Sir:

Below are the test results on the following samples taken on November 28, 1989, directly on the operating systems.

1. #6 Conveyer System, Cork Drag System
2. #4 Conveyor, #2 Cope Unit
3. #3 Conveyor, #1 Drag
4. #4 Conveyor, #2 Drag
5. #1 Cope System, #3 Conveyor

TESTS	SAMPLES #1	#2	#3	#4	#5
1. Viscosity, SUS @100°F	206	207	209	204	202
2. Total Acid No., mg KoH/g	0.244	0.258	0.273	0.221	*0.448
3. Water, ppm	277	887	713	772	617
4. Sediment, % by volume	0.003	0.005	0.003	0.02	0.02

COMMENTS AND RECOMMENDATIONS: Generally, the fluid is in reasonably good condition and can be maintained as is. Except with #1 Cope System, #3 Conveyor, this system has a higher acid number and we recommend that the fluid be changed out during your next available maintenance period.

Yours very truly,

James Szeto, B.Sc.,
Chief Chemist

JS/lg
Member of ASTM

c.c. Nancy Bredestege
Al Szymanski

804003

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: November 29,1989

Lab number: 7319

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : November 27,1989
This sample is reclyced from your used oil holding tank on November 23,1989 by Reclamation Services , Service Receipt# 001301

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	465°F
2. Fire Point	D92	600°F Min.	600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.103
4. Viscosity, SUS@100F	D445	200 SSU Min.	200
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	0 ppm
10. Sodium in ppm	by AA	100 ppm Max.	2 ppm
11. Mineral Oil	Methanol Split	1% Max.	3.5%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petco Laboratories will be conducted in accordance with the ASTM standards and most Federal Government technical standards.

004004

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: December 29,1989

Lab number: 7352

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : December 27,1989.
This sample is reclyced from your used oil holding tank on December 20,1989 by Reclamation Services , Service Receipt# 001300

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460
2. Fire Point	D92	600°F Min.	580
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS@100F	D445	200 SSU Min.	203
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.16
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	7
10. Sodium in ppm	by AA	100 ppm Max.	2
11. Mineral Oil	Methanol Split	1% Max.	2.5%

804005

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

0485

SERVICE RECEIPT

CUST. P.O.#: F739581

DATE: DEC 6/90

TO: CENTRAL FOUNDRY DIVISION
GENERAL MOTORS CORPORATION
1629 N. WASHINGTON AVE.
SAGINAW, MICHIGAN
48605

DESCRIPTION:

Reclaimed 1522 **U.S. GALLONS** of **PHOSPHATE ESTER**

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 73715

START: 67953

RECEIVED: B Van Driessche

804006

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 0472

CUST. P.O.#: F739581 **DATE:** Oct 25/90

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 2758 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

Activatise Aluminum.

METER SETTING:

END: 2907180

START: 2896700
10480

RECEIVED: Susan Fife

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Reclamation Services
140 Advance Blvd.,Unit #7,
Brampton, Ontario
L6T 4J4

Date: September 21,1990

Lab no. : 45768

Attention: Mr. Mel Ash

Re: 1 sample of used Phosphate Ester fluid taken from the waste holding tank at Central Foundry, Saginaw on September 12,1990.

Tests	Results
1. Total Acid number, mg KoH/g	0.45

Member of ASTM
JS:lf

Approved by
James Szeto, B.Sc.
Chief Chemist

804008

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

GM SAGINAW GREY IRON PLT.
CAL REPORT# 9062

SAMPLES RECEIVED 09/10/90

LAB# 9210249 WATER - PHOSPHATE ESTER RECLAIM

TCLP RCRA	
Ignitibility, Deg. F	> 200*N
Corrosivity, pH Units	7.8
REACTIVITY	
as Cyanide, mg/kg	0.10
as Sulfide, mg/kg	< 0.5
Arsenic, TCLP, mg/l	< 0.43
Barium, TCLP, mg/l	0.04
Cadmium, TCLP, mg/l	< 0.01
Chromium, TCLP, mg/l	< 0.02
Copper, TCLP, mg/l	< 0.02
Lead, TCLP, mg/l	< 0.09
Mercury, TCLP, mg/l	< 0.003
Selenium, TCLP, mg/l	< 0.020
Silver, TCLP, mg/l	< 0.03
Zinc, TCLP, mg/l	0.01

*YES/NO CAPACITY TO SUSTAIN BURNING AFTER BEING FLAMED.

SAMPLES RECEIVED 09/10/90

LAB# UNITS	9210249 mg/l
LP ORGANICS, W/O HERB/PEST	
E ORGANICS FOR TCLP RCRA	
nzene	< 0.0002
rbon Tetrachloride	< 0.004
lorobenzene	< 0.0004
loroform	< 0.004
,4-Dichlorobenzene	< 0.004
,2-Dichloroethane	< 0.002
,1-Dichloroethene	< 0.002
thyl Ethyl Ketone	0.0044
yridine	< 0.01
trachloroethene	< 0.002
richloroethene	< 0.002
inyl Chloride	< 0.01
ASE NEUTRALS, TCLP	
exachlorobutadiene	< 0.002
exachlorobenzene	< 0.002
2,4-Dinitrotoluene	< 0.002

804010

GM SAGINAW GREY IRON PLT.
CAL REPORT# 9062

SAMPLES RECEIVED 09/10/90

LAB#	9210249
UNITS	mg/l
exachloroethane	< 0.002
itrobenzene	< 0.002
CID EXTRACTS, TCLP	
,O,P Cresol	0.043
entachlorophenol	< 0.02
,4,5-Trichlorophenol	< 0.001
,4,6-Trichlorophenol	< 0.001
CB'S BY AROCHLOR	
CB-1016	< 0.001
CB-1221	< 0.001
CB-1232	< 0.001
CB-1242	< 0.001
CB-1248	< 0.001
CB-1254	< 0.001
CB-1260	< 0.001
CB-1262	< 0.001
CB, Total	< 0.001

AKZO

Chemical Division

QUALITY ASSURANCE
CERTIFICATE OF ANALYSIS

FYROQUEL 220

LOT NUMBER:	0420G- 4- 1	SHIPPED:	7-31-90
LAB NUMBER:	P-2690	COMPANY:	GENERAL MOTORS
DATE:	7-31-90	LOCATION:	SAGINAW, MI
ORDER NUMBER:	123023	FREIGHT:	T/T
P.O. NUMBER:	76984	QUANTITY:	T/T

TEST RESULTS

PROPERTY	RESULTS
APPEARANCE	CTL
ODOR	EN
SPECIFIC GRAVITY, @60/60 des. F.	1.159
ACIDITY, msKOH/sm	0.01
WATER CONTENT, wt.%	0.06
VISCOSITY, SUS @100 des. F.	222.9

804012

Akzo Chemicals Inc.
Route 2
P.O. Box 1721
Gallipolis Ferry
West Virginia 25515-1721

N A D. 1

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: February 14,1990

Lab number: 7439

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : February 12,1990
This sample is reclyced from your used oil holding tank on February 8,1990 by Reclamation Services , Service Receipt# 001293

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460°F
2. Fire Point	D92	600°F Min.	680°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	189
5. % Water	D96	0.10% Max.	0.0
6. % Sediment	D96	0.03% Max.	0.0
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.30
8.PCB content	EPA	Less than 1 ppm	none detected
9. Calcium , in ppm	by AA	50 ppm Max.	3
10. Sodium in ppm	by AA	100 ppm Max.	2
11. Mineral Oil	Methanol Split	1% Max.	5%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

013

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: March 27,1990

Lab number: 7509

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : March 23,1990
This sample is reclyced from your used oil holding tank on March 21, 1990 by Reclamation Services , Service Receipt# 001299

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	435°F
2. Fire Point	D92	600°F Min.	600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.085
4. Viscosity, SUS@100F	D445	200 SSU Min.	201
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	6
10. Sodium in ppm	by AA	100 ppm Max.	2
11. Mineral Oil	Methanol Split	1% Max.	5.5%

804014

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: April 3,1990

Lab number: 7520

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from a batch of fluid shippment by Reclamation Services, P.O. no. F732312, April 3,1990.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	450
2. Fire Point	D92	600°F Min.	610
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.115
4. Viscosity, SUS@100F	D445	200 SSU Min.	213
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.01
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	0

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: May 8,1990

Lab number: 7589

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : May 7,1990.
This sample is reclyced from your-used oil holding tank on May 5,1990 by Reclamation Services , Service Receipt# 001275

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	455°F
2. Fire Point	D92	600°F Min.	630°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS@100F	D445	200 SSU Min.	210
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.12
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	4
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	4%

804016

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: March 15,1990

Lab number: 7485

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from New Houghto-Safe 1120 received on March 12,1990.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460°F
2. Fire Point	D92	600°F Min.	over 600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.120
4. Viscosity, SUS@100F	D445	200 SSU Min.	214
5. % Water	D96	0.10% Max.	0.0
6. % Sediment	D96	0.03% Max.	0.0
7.Total Acid no. mgKOH/g	D974	0.15 Max.	* 0.36
8.PCB content	EPA	Less than 1 ppm	None detected
9. Calcium , in ppm	by AA	50 ppm Max.	1 ppm
10. Sodium in ppm	by AA	100 ppm Max.	0
11. Mineral Oil	Methanol Split	1% Max.	0.0

* The acid number of this new fluid is too high.

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and/or Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: May 24,1990

Lab number: 7613

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : May 22,1990
This sample is reclyced from your used oil holding tank on May 17,1990 by Reclamation Services , Service Receipt# 001278

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460
2. Fire Point	D92	600°F Min.	620
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS@100F	D445	200 SSU Min.	208
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.12
8.PCB content	EPA	Less than 1 ppm	Less than 1 pp
9. Calcium , in ppm	by AA	50 ppm Max.	2
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	1.5%

804018

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: June 21,1990

Lab number: 7669

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : June 19,1990.
This sample is reclyced from your used oil holding tank on June 13,1990 by Reclamation Services , Service Receipt#001287

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	455
2. Fire Point	D92	600°F Min.	600
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS@100F	D445	200 SSU Min.	201
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.07
8.PCB content	EPA	Less than 1 ppm	less than 1ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1 ppm
10. Sodium in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral Oil	Methanol Split	1% Max.	1.25%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: July 6,1990

Lab number: 7703

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : July 4,1990
This sample is reclyced from your used oil holding tank on June 27,1990 by Reclamation Services , Service Receipt# 001331

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460
2. Fire Point	D92	600°F Min.	600
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.105
4. Viscosity, SUS@100F	D445	200 SSU Min.	200
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	2.0%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

804020

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: August 1,1990

Lab number: 7354

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : July 30,1990
This sample is reclyced from your used oil holding tank on July 19,1990 by Reclamation Services , Service Receipt# 001337

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	450°F
2. Fire Point	D92	600°F Min.	600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	203.5
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.09
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	0 ppm
10. Sodium in ppm	by AA	100 ppm Max.	0 ppm
11. Mineral Oil	Methanol Split	1% Max.	3%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

1021

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: August 7,1990

Lab number: 7364

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from a new batch of fluid shippment August 1,1990.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	505
2. Fire Point	D92	600°F Min.	630
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.145
4. Viscosity, SUS@100F	D445	200 SSU Min.	223
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.00
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	0
10. Sodium in ppm	by AA	100 ppm Max.	0
11. Mineral Oil	Methanol Split	1% Max.	0

804022

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 9,1990

Lab number: 7798

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 5 ,1990.
This sample is reclyced from your used oil holding tank on September 29,1990 by Reclamation Services , Service Receipt# 0467

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	470°F
2. Fire Point	D92	600°F Min.	620
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	204
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.15
8.PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	3.0%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and most Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 12,1990

Lab number: 7809

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester from a batch of Re-refined fluid shipped by Reclamation Services, P.O. no. F739424, October 12,1990.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	455
2. Fire Point	D92	600°F Min.	620
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS@100F	D445	200 SSU Min.	215
5. % Water	D96	0.10% Max.	0.0
6. % Sediment	D96	0.03% Max.	0.0
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1ppm
9. Calcium , in ppm	by AA	50 ppm Max.	0
10. Sodium in ppm	by AA	100 ppm Max.	0
11. Mineral Oil	Methanol Split	1% Max.	0

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

804024

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 30,1990

Lab number: 7840

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 29,1990
This sample is reclyced from your used oil holding tank on October 25,1990 by Reclamation Services , Service Receipt# 0472

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	460°F
2. Fire Point	D92	600°F Min.	600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	194
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.14
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	2 ppm
10. Sodium in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral Oil	Methanol Split	1% Max.	3.5%

Yours truly,

James Zero, B.S..
Chief Chemist

Member of ASTM

JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and latest federal Government technical standards.

1025

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: December 11,1990

Lab number: 7942

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : December 10,1990
This sample is reclyced from your used oil holding tank on December 7,1990 by Reclamation Services , Service Receipt# 0485

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	465°F
2. Fire Point	D92	600°F Min.	600°f
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.085
4. Viscosity, SUS@100F	D445	200 SSU Min.	200
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.05%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.10
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppr
9. Calcium , in ppm	by AA	50 ppm Max.	5
10. Sodium in ppm	by AA	100 ppm Max.	7
11. Mineral Oil	Methanol Split	1% Max.	-

804026

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: November 20,1990

Lab number: 7899

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester .

Sample Idenification: Nov 14,90, AKZO Chemical #220 New Material from CFD , GMC , Saginaw.

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	485°F
2. Fire Point	D92	600°F Min.	635°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS@100F	D445	200 SSU Min.	224
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.01
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1
10. Sodium in ppm	by AA	100 ppm Max.	0
11. Mineral Oil	Methanol Split	1% Max.	0.0%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM

JS/lg

4027

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: December 11,1990

Lab number: 7942

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : December 10,1990
This sample is reclyced from your used oil holding tank on December 7,1990 by Reclamation Services , Service Receipt# 0485

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	465°F
2. Fire Point	D92	600°F Min.	600°f
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.085
4. Viscosity, SUS@100F	D445	200 SSU Min.	200
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.05%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.10
8.PCB content	EPA	Less than 1 ppm	Less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	5
10. Sodium in ppm	by AA	100 ppm Max.	7
11. Mineral Oil	Methanol Split	1% Max.	-

804028

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

Dec 11, 95

NO. PAGES (INCLUDING THIS ONE): 2

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB NO. 7942

4029

Paul Lee

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

0495

SERVICE RECEIPT

CUST. P.O.#: F739581

DATE: JAN 9/91

TO: General Motors Corporation
Central Foundry Division
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 1796 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 91400

START: 84600

RECEIVED: Jeanne Fry

804030

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : May 6, 1991

Lab no.: 8203

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : May 3, 1991.
This sample is recycled from your used oil holding tank on April 26, 1991 by Reclamation Services, Service Receipt# 014649.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	486 °F
2. Fire Point	D92	600°F Min	over 600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.152
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	215 SSU
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.08
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	9ppm
10. Sodium, in ppm	by AA	100 ppm Max.	8ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

Member of ASTM

Approved by
James Széto, B.Sc.,
Chief Chemist.

8 0031

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division - GMC
Saginaw Grey Iron Plant,
1629 N. Washington Avenue,
Saginaw, Michigan,
48605.

Date : April 18, 1991.

Lab no.: 8172

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir:

Below are the test results on a sample of phosphate Ester Hydraulic Fluid taken from a batch of oil sold by Reclamation Services, delivered on April 25, 1991, P.O.#F743219.

TESTS	ASTM METHODS	G.M. SPECIFICATIONS	RESULTS
Flash Point	D92	425°F Min.	482°F
Fire Point	D92	600°F Min	over 600°F
Specific Gravity, @ 60°F	D1298	1.141 @ 60°F	1.150
Viscosity, SSU @ 100°F	D445	200 SSU Min.	220
%Water, by volume	D96	0.10% Max.	0.00%
% Sediment, by volume	D96	0.03% Max.	0.01%
Total Acid Number, mg KOH/g	D974	0.15 Max.	0.067
PCB Content	EPA	Less than 1 ppm	Less than 1 ppm
Calcium, in ppm	by AA	50 ppm. Max.	4 ppm
Sodium in ppm	by AA	100 ppm. Max.	2 ppm
Mineral Oil, by volume	Methanol Split	1 % Max.	0.00%

Approved By

James Szeto, B.Sc.,
Chief Chemist.

804032

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : March 5, 1991

Lab no.: 8090

Attention : Mr. Al Corrion

Dear Sir,
Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : March 1, 1991.
This sample is recycled from your used oil holding tank on Feb 21,1991 by Reclamation Services, Service Receipt# 0540

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	455
2. Fire Point	D92	600°F Min	630
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.105
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	218
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.06
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2
10. Sodium, in ppm	by AA	100 ppm Max.	-
11. Mineral oil	Methanol Split	1% Max.	4.5%

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

4033

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

JAN 22, 1991

NO. PAGES (INCLUDING THIS ONE) 4

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB NO 5006-110

804034

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-1

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991.
This sample is recycled from your used oil holding tank on Sample taken from the recycle tank bottom sample by Reclamation Services, Service Receipt# 0495.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.130
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	213
5. % Water	D95	0.10% max	0.00%
6. % Sediment	D95	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.15
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral oil	Methanol Split	1% Max.	3.4%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

035

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax.(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-2

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991.
This sample is a new Fluid shippment from the new fluid storage tank.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	225
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.00
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	0
10. Sodium, in ppm	by AA	100 ppm Max.	0
11. Mineral oil	Methanol Split	1% Max.	0.0%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

804036

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-3

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991.
This sample is a composite sample from the new and recycled overall reclamated tank sample.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	211
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.12
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	1
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral oil	Methanol Split	1% Max.	2.0%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

804037

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-1

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991.
This sample is recycled from your used oil holding tank on Sample taken from the recycle tank bottom sample by Reclamation Services, Service Receipt# 0495.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.130
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	213
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.15
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral oil	Methanol Split	1% Max.	3.4%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

804038

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-2

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991. This sample is a new Fluid shippment from the new fluid storage tank.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	225
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.00
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	0
10. Sodium, in ppm	by AA	100 ppm Max.	0
11. Mineral oil	Methanol Split	1% Max.	0.0%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

804039

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : January 21, 1991.

Lab no.: 8006-3

P.O. no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : Jan 17, 1991. This sample is a composite sample from the new and recycled overall reclamated tank sample.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	490°F
2. Fire Point	D92	600°F Min	620°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	211
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.12
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	1
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral oil	Methanol Split	1% Max.	2.0%

Member of ASTM

Yours truly,

James Szeto, B.Sc.,
Chief Chemist.

804040

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division - GMC
Saginaw Grey Iron Plant,
1629 N. Washington Avenue,
Saginaw, Michigan,
48605.

Date : April 18, 1991.

Lab no.: 8172

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir:

Below are the test results on a sample of phosphate Ester Hydraulic Fluid taken from a batch of oil sold by Reclamation Services, delivered on April 25, 1991, P.O.#F743219.

TESTS	ASTM METHODS	G.M. SPECIFICATIONS	RESULTS
Flash Point	D92	425°F Min.	482°F
Fire Point	D92	600°F Min	over 600°F
Specific Gravity, @ 60°F	D1298	1.141 @ 60°F	1.150
Viscosity, SSU @ 100°F	D445	200 SSU Min.	220
%Water, by volume	D96	0.10% Max.	0.00%
% Sediment, by volume	D96	0.03% Max.	0.01%
Total Acid Number, mg KOH/g	D974	0.15 Max.	0.067
PCB Content	EPA	Less than 1 ppm	Less than 1 ppm
Calcium, in ppm	by AA	50 ppm. Max.	1 ppm
Sodium in ppm	by AA	100 ppm. Max.	2 ppm
Mineral Oil, by volume	Methanol Split	1 % Max.	0.00%

Approved By

James Szeto, B.Sc.,
Chief Chemist.

041

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

APRIL 05 '91

NO. PAGES
(INCLUDING THIS ONE)

MESSAGE: Lab report to attention of Mr. Al Corrion
X172

804042

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 014249

CUST. P.O.#: F739581

DATE: APRIL 26 / 91

TO: General Motors Corporation
Central Foundry Division
1629 N. Washington Avenue
Saginaw, Michigan
48605

2 Loads
2485
5085

DESCRIPTION:

Reclaimed 2485 Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 3064500

START: 3055144

9356 L

RECEIVED:

004043

Post-It™ brand fax transmittal memo 7671 | # of pages ▸

To JACK LOSEE	From A. CORRION
Co.	Co.
Dept.	Phone #
Fax #	Fax #

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

FILE

INVOICE

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Avenue
Saginaw, Michigan
48605

Attention: Mr. Al Corrion

DATE: February 21, 1991

INVOICE#: 4475

P.O.#: F739581

SERVICE RECEIPT#: 0539

TERMS: 2% Discount, Net 10

P.O. #F739581, ITEM CODE #096057-02
As per attached signed Service Receipt #0539:

Processed U.S. gallons of (LIQUID CHEMICAL WASTE ONLY FROM) Waste Water/Phosphate Ester/Sludge from Waste Storage Tank.

Price: 550 U.S. Gallons @ $4.50/gal.: → $ 2475.00

ALL PRICES IN U.S. FUNDS

Non-Taxable - For Industrial Processing TOTAL $ 2475.00

TOTAL DUE: $2475.00

TF

RECEIVED
Subject to Weight and Count
C.F.D. - SAGINAW
MAR 8 1991
GREY IRON DIVISION
SEQ.
PER

804044

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

INVOICE

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Avenue
Saginaw, Michigan
48605

Attention: Mr. Al Corrion

DATE: February 21, 1991

INVOICE#: 4475

P.O.#: F739581

SERVICE RECEIPT#: 0539

TERMS: 2% Discount, Net 10

P.O. #F739581, ITEM CODE [redacted]
As per attached signed Service Receipt #0539:

Processed U.S. gallons of (Liquid chemical waste containing) Waste Water/Phosphate Ester/Sludge from Waste Storage Tank.

Price: 550 U.S. Gallons @ $4.50/gal.: → $2475.00

ALL PRICES IN U.S. FUNDS

Non-Taxable - For Industrial Processing TOTAL → $2475.00

TOTAL DUE: $2475.00

TF

804045

7059

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568
[illegible] SAGINAW, MICHIGAN 48601 (517) 754-3808

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

FAX TRANSMISSION SHEET

DATE: March 7, 1991

TO: Mr. Al Corrion
Saginaw Grey Iron Plant
Central Foundry Division
General Motors Corporation
Fax: (517) 757-2614

FROM: Lana Ross
Reclamation Services

NO. OF PAGES INCLUDING COVER: 3

MESSAGE:

Dear Mr. Corrion:

Attached please find a copy of our Invoice #4475 and Service Receipt #0539.

I have been informed by Mr. Jack Losee, Accounts Payable, that this invoice has been lost in the shuffle somewhere between Shipping/Receiving and his desk.

Would you kindly approve the above invoice, and forward same to Mr. Losee for processing?

Thank you for your assistance in this matter.

Lana Ross
Lana Ross
Secretary

804046

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 0539

P.O. #: F739581

DATE: February 21, 1991

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Avenue
Saginaw, Michigan
48605

DESCRIPTION: To desludge waste phosphate ester storage tank as per P.O. #F739581, Item #096057-02.

VOLUME DETERMINATION ONLY:

To confirm tank calibration for volume, as determined by Central Foundry Division and Reclamation Services.

Tank Diameter: 10'6"
Tank Height: 18'3"

* LIQUID CHEMICAL WASTE ONLY!
PUMPED + FILTERED 10 x 55 gal DRUMS FOR DISPOSAL.

Volume Determination: 550 U.S. gallons.

SIGNED:

Central Foundry Div. _____

Reclamation Services _____

047

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 0515

CUST. P.O.#: F739581

DATE: March 11, 1991

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 440 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

RECEIVED: Raymond A. Miller 3-15-91

804048

HEAD OFFICE: 140 ADVANCE BLVD. UNIT 7 BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 0517

CUST. P.O.#: F739581

DATE: March 11, 1991

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 3520 U.S. Gallons of Waste Water/Sludge

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

CALCULATION ON VOLUME OF WASTE WATER/SLUDGE FROM PHOSPHATE ESTER TANK FOR PROCESSING:

64 55 GAL. DRUMS OR 3520 GALLONS

RECEIVED:

Raymond A Dilla 3-15-91

04049

ok FILE

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

0510

SERVICE RECEIPT

CUST. P.O.#: F739581

DATE: February 21, 1991

TO: Central Foundry Division
General Motors Corp
1629 N Washington Ave.
Saginaw, Michigan
48605 - 5079

DESCRIPTION:

Reclaimed 2050 US gal of Phosphate Ester Hydraulic Oil

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

None

Acid Neutralized

METER SETTING:

END: 3011880

START: 3004162
7718 L

RECEIVED
Subject to Weight and Count
C F D - SAGINAW
FEB 25 1991
GREY IRON PLANT
SEQ.
PER

RECEIVED:

804050

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 0539

P.O. #: F739581 DATE: February 21, 1991

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Avenue
Saginaw, Michigan
48605

DESCRIPTION: To desludge waste phosphate ester storage tank as per P.O. #F739581, Item #096057-02.

VOLUME DETERMINATION ONLY:

To confirm tank calibration for volume, as determined by Central Foundry Division and Reclamation Services.
Tank Diameter: 10'6"
Tank Height: 18'3"

*HIGHLY CHEMICAL WASTE ONLY!
Pumped + Filled into 10 x 55 gal Drums for Disposal

Volume Determination: 550 U.S. gallons.

SIGNED:

Central Foundry Div. _____

Reclamation Services _____

4051

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

Oct. 9, 1990

NO. PAGES (INCLUDING THIS ONE): 2

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB NO. 7798

804052

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date: October 9,1990

Lab number: 7798

P.O. no. F731575

Attention: Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 5 ,1990.
This sample is reclyced from your used oil holding tank on September 29,1990 by Reclamation Services , Service Receipt# 0467

Tests	ASTM METHOD	G.M. SPECIFICATIONS	RESULTS
1. Flash Point	D92	425°F Min.	470°F
2. Fire Point	D92	600°F Min.	620
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100F	D445	200 SSU Min.	204
5. % Water	D96	0.10% Max.	0.0%
6. % Sediment	D96	0.03% Max.	0.00%
7.Total Acid no. mgKOH/g	D974	0.15 Max.	0.15
8.PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium , in ppm	by AA	50 ppm Max.	1
10. Sodium in ppm	by AA	100 ppm Max.	1
11. Mineral Oil	Methanol Split	1% Max.	3.0%

Yours truly,

James Szeto, B.Sc.
Chief Chemist

Member of ASTM
JS/lg

053

Petro Labbratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1588

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : June 5, 1991

Lab no : 8265

P.O.no : F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : June 3, 1991.
This sample is recycled from your used oil holding tank on May 28, 1991 by Reclamation Services, Service Receipt# 014645

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	475
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.120
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	203
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.002%
7. Total Acid no. mg KOH/g	D974	0.15 Max	*0.20
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	5ppm
10. Sodium, in ppm	by AA	100 ppm Max.	34ppm
11. Mineral oil	Methanol Split	1% Max.	1.5%

* Total Acid no. of the waste fluid before recycling is 0.37

Member of ASTM

Approved by _____
James Szalo, B.Sc.,
Chief Chemist

804054

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

June 5, 1997

NO. PAGES (INCLUDING THIS ONE) 2

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB. NO. 8265

DK FILES

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 014645

CUST. P.O.#: F739581

DATE: MAY 28/91

TO: General Motors Corp.
Central Foundry Div.
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 2650 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

Acid Reaction

METER SETTING:

END: 3097900

START: 3087923

9977 L

RECEIVED: 9977 L

x Terry Lyle

804056

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : June 5, 1991

Lab no.: 8265

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : June 3, 1991.
This sample is recycled from your used oil holding tank on May 28, 1991 by Reclamation Services, Service Receipt# 014645

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	475
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.120
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	203
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.002%
7. Total Acid no. mg KOH/g	D974	0.15 Max	*0.20
8. PCB content	EPA	Less than 1 ppm	less than 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	5ppm
10. Sodium, in ppm	by AA	100 ppm Max.	34ppm
11. Mineral oil	Methanol Split	1% Max.	1.5%

* Total Acid no. of the waste fluid before recycling is 0.37

Member of ASTM

Approved by
James Szelo, B.Sc.,
Chief Chemist

057

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and some Federal Government technical standards

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 014635

CUST. P.O.#: F739581

DATE: JUNE 27/91

TO: General Motors Corp.
Central Foundry Div.
1629 N. Washington Ave.
Saginaw, Michigan
48605

DESCRIPTION:

Reclaimed 1082 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 110370

START: 106274

RECEIVED:

804058

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: July 4, 1991.

Lab no.: 8319

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : July 2, 1991. This sample is recycled from your used oil holding tank on June 27/91., by Reclamation Services, Service Receipt #014635.

Test	ASTM Method	G.M. Specifications	Results
1. Flash Point	D92	425°F Min	468
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.113
4. Viscosity, SUS@100°F	D445	200 SSU Min	211
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	* 0.27
8. PCB content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3
10. Sodium, in ppm	by AA	100 ppm Max.	11
11. Mineral Oil	Methanol Split	1% Max.	1.5%

* Total acid no. on raw material = 0.50

Yours Truly,

James Szeto, B.Sc.,
Chief Chemist.

Member of ASTM

059

Reclamation Services

(A DIVISION OF 574023 ONTARIO LIMITED)

SERVICE RECEIPT 014664

CUST. P.O.#: F739581 DATE: JULY 30/91

TO: General Motors Corp.
Central Foundry Division
1629 N. Washington Ave.
Saginaw, Michigan

DESCRIPTION:

Reclaimed 3000 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 3212960

START: 3201560

11400L

RECEIVED:

804060

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: Aug 7, 1991.

Lab no : 8385

P.O.no : F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : August 6, 1991.
This sample was recycled from your used oil holding tank on : July 30,91 by Reclamation Services Ltd, Service Receipt #014664.

Test	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	468°F
2. Fire Point	D92	600°F Min	> 600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.105
4. Viscosity, SUS@100°F	D445	200 SSU Min	201
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mgKOH/g	D974	0.15 Max.	* See Below
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	37 ppm
11. Mineral Oil	Meth... Split	1% Max	3.25%

* Total Acid no. mgKOH/g	Waste oi...	...ycled	Blended in New Oil Tank
	0.43	...4	0.10

Yours Truly,

James Szeto, B Sc.,
Chief Chemist

Member of ASTM
JS:js

061

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1568

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

August 7, 1997

NO. PAGES (INCLUDING THIS ONE) 2

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB. NR 8385

804062

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: Aug 7, 1991.

Lab no.: 8385

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : August 6, 1991.
This sample was recycled from your used oil holding tank on : July 30,91 by Reclamation Services Ltd, Service Receipt #014664.

Test	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	468°F
2. Fire Point	D92	600°F Min	> 600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.105
4. Viscosity, SUS@100°F	D445	200 SSU Min	201
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mgKOH/g	D974	0.15 Max.	* See Below
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	37 ppm
11. Mineral Oil	Methanol Split	1% Max.	3.25%

* Total Acid no. mgKOH/g	Waste oil	Recycled	Blended in New Oil Tank
	0.43	0.24	0.10

Yours Truly,

James Szeto, B.Sc.,
Chief Chemist.

Member of ASTM
JS:js

4063

All tests performed by Petro Laboratories will be conducted in accordance with the ...

```
PO F743219 000 NO-RCVR   L30-DAS    FROM          PO/RLS-TYP R     PAGE L
VENDOR 472795 CLS/CAN-DTE          I S A Y ISSUE  R-DATE P-DATE  FOB     TERMS
RECLAMATION SERVICES ONTARIO LTD (E      032791 041691          BP      01 .0200
140 ADVANCE BLVD UNIT 7          FOB C/S                                 RFQ
BRAMPTON ONT CAN L6T 4J4    00000 P/N N  CALL-NO        CALL-DTE         BUYER 05
                                 AUTM    NOTIFY AL CORRION - STORES
QNTITY  ITM NO                  HYDRAULIC AKZO CHEMICALS ÷22          5.6000000 GAL
   5000 05570365     OIL
                     BULK TANK TRUCK (9.66 LBS PER GAL.)
                     HMC 262
4506          FG32594  042691       2632  RCPT-DT 04/26/91
              FG39684  4548         3368  RCPT-DT 08/20/91
          RTG          TOTAL       6000 R 041691 P        V C   SHIPR
          TX-CD 4D                 70003202718206          00   R-TYP R APRV N   MB
```

```
PSWD:
PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=PU138
```

804064

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Sabinaw, MI 48605-5073,

Date : August 20, 1991

Lab no.: 8413

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester taken from the tanker load shipped from Reclamation Services with respect to the Invoice # 4548, P.O.# F743219 on August 20/1991.

Test	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	455
2. Fire Point	D92	600°F Min	>600
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100°F	D445	200 SSU Min	226
7			
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.07
8. PCB content	EPA	Less than 1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3
10. Sodium, in ppm	by AA	100 ppm Max.	4
11. Mineral Oil	Methanol Split	1% Max.	1.5%

Member of ASTM

Approved By _____
James Szeto, B.Sc.,
Chief Chemist.

Reclamation Services Limited

SERVICE RECEIPT

014692

P.O. #: F739581

DATE: Sept. 9, 1991

TO: General motors corporation
Central Foundry Division
1629 N Washington Ave.
Saginaw, Michigan 48605

DESCRIPTION:

Reclaimed 1810 U.S. Gallons of Phosphate Ester

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

68781

RECEIVED:

804066

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568
U.S. DIVISION: RECLAMATION SERVICES INC., 3720 E. WASHINGTON RD., SAGINAW, MICHIGAN 48601 (517) 754-3808

PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=PU138

15840
26212
$4202

004067

Reclamation Services Limited

SERVICE RECEIPT

014679

P.O. #: F739581 DATE: Sept 13/91

TO: General Motors Corporation
Central Foundry Division
1629 N. Washington Ave.
Saginaw Michigan 48605

DESCRIPTION:

Reclaimed + Treated 87-55 gallon drums of Water From Desludging Operation. From Waste Phosphate Ester Storage Tank.
4785 GALLONS To Acceptable Standards.

440 GALLONS Generated 8-55 gallon drums of Solid Waste (Zeolite and Activated Carbon Mix)

ADDITIVE RECONSTITUTION:

Note: Included in volume was the Flushing & Cleaning of Waste Phosphate Ester Storage Tank.

METER SETTING:

END:

START:

Total Volume Water + Solids = 5225 U.S. Gallons.

RECEIVED:

x _____

804068

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568
U.S. DIVISION: RECLAMATION SERVICES INC., 3720 E. WASHINGTON RD., SAGINAW, MICHIGAN 48601 (517) 754-3808

Reclamation Services Limited

SERVICE RECEIPT

014678

P.O. #: F739581 DATE: Sept 13/91

TO: General motors corporation
Central Foundry Division
1629 N. Washington Ave
Saginaw Michigan 48605

DESCRIPTION:

Reclaimed + Treated 600 U.S GALLONS of waste oil

To Acceptable Standards. Pumped into waste oil storage TANK No. 3

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

600 US GALLONS

RECEIVED:

4069

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568
U.S. DIVISION: RECLAMATION SERVICES INC., 3720 E. WASHINGTON RD SAGINAW, MICHIGAN 48601 (517) 754-3803

Reclamation Services Limited

INVOICE

TO: Central Foundry Division
General Motors Corporation
1629 N. Washington Ave.
Saginaw, Michigan
48605

DATE: Sept. 13, 1991

INVOICE: 4557

P.O. #: F739581

SERVICE RECEIPT: Attached

Attention: Mr. Al Corrion

TERMS: 2% Discount, Net 10

As per attached Service Receipts: # 014678 # 014679 #

FTN 096057-022

Processed Total of U.S. Gallons of Waste Water/Phosphate Ester/Sludge from Waste Storage Tank.

Price: 5825 U.S. gallons @ $4.50/gal. ——→ $26,212.50

ALL PRICES IN U.S. FUNDS

ALL WORK COMPLETE AND DELIVERED

Non-Taxable - For Industrial Processing

TOTAL DUE: $26,212.50

804070

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1559

FAX TRANSMISSION SHEET

TO: Mr Al Corrion
Central Foundry division -C.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

NO. PAGES (INCLUDING THIS ONE)

MESSAGE: Lab report to attention of Mr. Al Corrion
Lab N° 2989

804071

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1566

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: September 25, 1991.

Lab no.: 8489

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : September 23, 1991. This sample is recycled from your used oil holding tank on September 9/91., by Reclamation Services, Service Receipt #014692.

Test	ASTM Method	G.M. Specifications	Results
1. Flash Point, °F	D92	425°F Min	480
2. Fire Point, °F	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.130
4. Viscosity, SUS@100°F	D445	200 SSU Min	208
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.15
8. PCB content, in PPM	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2
10. Sodium, in ppm	by AA	100 ppm Max.	5
11. Mineral Oil, %	Methanol Split	1% Max.	0.00%

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM

804072

Industrial Waste Disposal

804073

Oil Water Disposal from Phos Ester

```
PO F739581 001 NO-RCVR   L30-DAS    FROM          PO/RLS-TYP BI    PAGE L
VENDOR 472795 CLS/CAN-DTE          I N A Y ISSUE  R-DATE P-DATE  FOB     TERMS
RECLAMATION SERVICES ONTARIO LTD (E       090490 090190 083193 BP      01 .0200
140 ADVANCE BLVD UNIT 7          FOB C/S                                RFQ D195
BRAMPTON ONT CAN L6T 4J4   00000 P/N N  CALL-NO        CALL-DTE         BUYER 05
QUANTITY  ITM NO                AUTM    NOTIFY A. CORRION/RAY ILKKA
          REC-NOTIFY  AL CORRION/STORES
        0 096057-02   SEPARATE WATER FROM PHOSPHATE ESTER          4.5000000 GAL
                      OIL AND SOLIDS.  WATER WILL BE TEST ED
                      BY BOTH GREY IRON PLANT AND SUPPLIE R
4499          NR23006 QTY-REC      3520  RCPT-DT 03/21/91
4416          NR24535 QTY-REC      5305  RCPT-DT 09/20/90
          RTG         TOTAL          0 R         P         V C   SHIPR
          TX-CD 4E                700032099722S0          00   R-TYP N APRV A  MB


PSWD:
PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=PU138
```

804074

```
PO F739581 001 NO-RCVR   L30-DAS   FROM 091791 PO/RLS-TYP BI   PAGE 01
VENDOR 47295 CLS/CAN-DTE          I N A Y ISSUE  R-DATE P-DATE  FOB     TERMS
RECLAMATION SERVICES ONTARIO LTD (E       090490 090190 083193 BP      01 .0200
140 ADVANCE BLVD UNIT 7          FOB C/S                                RFQ D195
BRAMPTON ONT CAN L6T 4J4   00000 P/N N  CALL-NO        CALL-DTE         BUYER 05
QUANTITY  ITM NO              AUTM    NOTIFY A. CORRION/RAY TIKKA
        0 RECLAIM     RECLAIM PHOSPHATE ESTER HYD.FLUID          3.1500000 GAL
                      USING VACUUM VAPORIZATION PROCESS
                      & ARSOLUTE FILTRATION TECHNIQUES
          RTG         TOTAL          0 R         P         V C   SHIPR
          TX-CD 4B              70003202718206          00   R-TYP N APRV A  MB
          REC-NOTIFY  AL CORRION/STORES
        0 RECLAIM1    RECLAI ADDITIONAL COST TO TREAT HIG        1.3500000 GAL
                      ACID PHOSPHATE ESTER HYD FLUID
                      W/ACTIVATED ALUMINIA .
          RTG         TOTAL          0 R         P         V C   SHIPR
          TX-CD 4B              70003202718206          00   R-TYP N APRV A  MB
          REC-NOTIFY  AL CORRION/STORES
        0 696057-02   SEPARATE WATER FROM PHOSPHATE ESTER        4.5000000 GAL
                      OIL AND SOLIDS.  WATER WILL BE TEST ED
                      BY BOTH GREY IRON PLANT AND SUPPLIE R
          RTG         TOTAL          0 R         P         V C   SHIPR
PSWD:
PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=PU138S
```

804075

```
PO P739581 001 NO-RCVR   L30-DAS    FROM          PO/RLS-TYP BT    PAGE 01
VENDOR 472795 CLS/CAN-DTE          I N A Y ISSUE  R-DATE P-DATE  FOB     TERMS
RECLAMATION SERVICES ONTARIO LTD (E       090490 090190 083193 BP      01 .0200
140 ADVANCE BLVD UNIT 7          FOB C/S                                RFQ D195
BRAMPTON ONT CAN L6T 4J4   00000 P/N N  CALL-NO        CALL-DTE         BUYER 05
QUANTITY   ITM NO                AUTM    NOTIFY A. CORRION/RAY ILKKA
        0 RECLAIM      RECLAIM PHOSPHATE ESTER HYD.FLUID          3.1500000 GAL
                       USING VACUUM VAPORIZATION PROCESS
                       & ABSOLUTE FILTRATION TECHNIQUES
4476           NR00221  QTY-REC     2050  RCPT-DT 03/01/91
4541           NR01113  QTY-REC     3000  RCPT-DT 08/09/91
4518           NR10308  QTY-REC     2650  RCPT-DT 06/13/91
4528           NR13311  QTY-REC     1082  RCPT-DT 07/05/91
4488           NR18505  QTY-REC      440  RCPT-DT 03/20/91
4475           NR29480  QTY-REC      550  RCPT-DT 03/12/91
4504           NR42063  QTY-REC     2485  RCPT-DT 05/03/91
4449           NR50006  QTY-REC     1522  RCPT-DT 12/17/90
4421           NR50500  QTY-REC     3265  RCPT-DT 10/12/90
4432           NR55325  QTY-REC     2758  RCPT-DT 11/06/90
4457           NR56056  QTY-REC     1796  RCPT-DT 01/18/91
          RTG           TOTAL         0 R          P         V C   SHIPR
          TX-CD 4B                700032027182O6          00   R-TYP N APRV A  MB
PSWD:
PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=PU138
```

804076

```
PO F739581 001 NO-RCVR   L30-DAS    FROM          PO/RLS-TYP BI    PAGE 02
VENDOR 472795 CLS/CAN-DTE          I N A Y ISSUE  R-DATE P-DATE  FOB     TERM
RECLAMATION SERVICES ONTARIO LTD (E       090490 090190 083193 BF      01  .0
140 ADVANCE BLVD UNIT 7          FOB C/S                                 RFQ
BRAMPTON ONT CAN L6T 4J4   00000 P/N N  CALL-NO         CALL-DTE         BUYE
QUANTITY  ITM NO                AUTM    NOTIFY A. CORRION/RAY ILKKA
          REC-NOTIFY   AL CORRION/STORES
        0 RECLAIM1     RECLAI ADDITIONAL COST TO TREAT HIG          1.3500000
                       ACID PHOSPHATE ESTER HYD FLUID
                       W/ACTIVATED ALUMINIA .
4476          NR00221  QTY-REC      2050  RCPT-DT 03/01/91
4541          NR01113  QTY-REC      3000  RCPT-DT 08/09/91
4518          NR10308  QTY-REC      2650  RCPT-DT 06/13/91
4528          NR13312  QTY-REC      1082  RCPT-DT 07/05/91
4488          NR18505  QTY-REC       440  RCPT-DT 03/20/91
4475          NR29481  QTY-REC       550  RCPT-DT 03/12/91
4449          NR50007  QTY-REC      1522  RCPT-DT 12/17/90
4421          NR50501  QTY-REC      3265  RCPT-DT 10/12/90
4432          NR55326  QTY-REC      2758  RCPT-DT 11/06/90
4457          NR56057  QTY-REC      1796  RCPT-DT 01/18/91
          RTG          TOTAL          0 R          P          V C   SHIPR
          TX-CD 4B                 70003202718206              00   R-TYP N APRV A
PSWD:
PF1=ITEM STATUS PF2=PU168C PF3=PM139S PF4=MENU PF6=PU383S PF7=MP132S PF8=P
```

804077

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: October 3, 1991.

Lab no.: 8506

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester #220 fire-resistant fluid, taken from a new fluid shippment by Azko Chemical Ltd., on September 20, 1991. Sample received on October 2, 1991.

Test	ASTM Method	G.M. Specifications	Results
1. Flash Point, °F	D92	425°F Min	470
2. Fire Point, °F	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.140
4. Viscosity, SUS@100°F	D445	200 SSU Min	220
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.08
8. PCB content, in PPM	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral Oil, %	Methanol Split	1% Max.	0.00%

* The fluid is very light in colour, all the above properties appear to be normal and acceptable.

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM
JS:ps

804078

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Paul Plastic File

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: October 3, 1991.

Lab no.: 8506

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester #220 fire-resistant fluid, taken from a new fluid shippment by Azko Chemical Ltd., on September 20, 1991. Sample received on October 2, 1991.

Test	ASTM Method	G.M. Specifications	Results
1. Flash Point, °F	D92	425°F Min	470
2. Fire Point, °F	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.140
4. Viscosity, SUS@100°F	D445	200 SSU Min	220
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.08
8. PCB content, in PPM	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral Oil, %	Methanol Split	1% Max.	0.00%

* The fluid is very light in colour, all the above properties appear to be normal and acceptable.

Yours Truly,

James Szeto, B.Sc.,
Chief Chemist.

Member of ASTM
JS:ps

604079

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: October 28, 1991.

Lab no.: 8544

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 25, 1991.
This sample was recycled from your used oil holding tank on : October 22,1991 by Reclamation Services Ltd,Service Receipt#014691.

Tests	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	475°F
2. Fire Point	D92	600°F Min	> 600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.127
4. Viscosity, SUS@100°F	D445	200 SSU Min	211
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mgKOH/g	D974	0.15 Max.	0.13
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	5 ppm
11. Mineral Oil	Methanol Split	1% Max.	0.00%

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM
JS:js

804080

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1566

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: October 28, 1991.

Lab no.: 8544

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : October 25, 1991.
This sample was recycled from your used oil holding tank on : October 22,1991 by Reclamation Services Ltd,Service Receipt#014691.

Tests	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	475°F
2. Fire Point	D92	600°F Min	> 600°F
3. Specific Gravity @60°F	D1298	1.141 @ 60°F	1.127
4. Viscosity, SUS@100°F	D445	200 SSU Min	211
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mgKOH/g	D974	0.15 Max.	0.13
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2 ppm
10.Sodium, in ppm	by AA	100 ppm Max.	5 ppm
11.Mineral Oil	Methanol Split	1% Max.	0.00%

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM
JS:js

4081

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and procedures.

Reclamation Services

SERVICE RECEIPT

014710

P.O. #: F739581 DATE: Nov 25, 1991

TO: Central Foundry Division.,
General Motors Corporation.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

DESCRIPTION:

Reclaimed 2147 US GALLONS of PHOSPATE ESTER HYDRAULIC FLUID

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

RECEIVED
Subject to Weight and Count
CFD - SAGINAW
NOV 27 1991
GREY IRON PLANT
SEQ.
PER

RECEIVED:

804082

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel.(416) 458 0989 Fax (416) 458 1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: December 3, 1991.

Lab no.: 8604

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : November 28, 1991. This sample is recycled from your used oil holding tank on November 25/91., by Reclamation Services, Service Receipt #014710.

Test	AST[illegible]	G.M. Specifications	Clean oil tank sample (after recycled) Results
1. Flash Point, °F	D92	425°F Min	460
2. Fire Point, °F	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.115
4. Viscosity, SUS@100°F	D445	200 SSU Min	200
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.10
8. PCB content, in PPM	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	7
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral Oil, %	Methanol Split	1% Max.	0.30%

*The acid no. of the waste oil sample before recycling is 0.39

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM

004083

Petro Lab

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073,

Date: December 3, 1991.

Lab no.: 8604

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on : November 28, 1991. This sample is recycled from your used oil holding tank on November 25/91., by Reclamation Services, Service Receipt #014710.

Test	ASTM Method	G.M. Specifications	Clean oil tank sample (after recycled) Results
1. Flash Point, °F	D92	425°F Min	460
2. Fire Point, °F	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.115
4. Viscosity, SUS@100°F	D445	200 SSU Min	200
5. % Water	D96	0.10% Max.	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max.	0.10
8. PCB content, in PPM	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	7
10. Sodium, in ppm	by AA	100 ppm Max.	1
11. Mineral Oil, %	Methanol Split	1% Max.	0.30%

*The acid no. of the waste oil sample before recycling is 0.39

Yours Truly,

James Szeto,B.Sc.,
Chief Chemist.

Member of ASTM

804084

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Reclamation Services

December 13, 1991.

BY FAX

General Motors, Central Foundry.,
1629 N. Washington.,
P. O. Box 5073,
Saginaw, Michigan.
USA 48605-5073

ATTN: Mr. James W. Long,
Supervisor Commodity Management.

Dear Sir:

For your reference, below please find an outline of 1991 reclamation project work for Central Foundry.

DATE	OIL RECYCLING	DESLUDGE WASTE	OIL SALES
Aug 19			3368 gal.
Nov 25	2143 gal.		
Oct 21	1883 gal.		
Sept 11	1810 gal.		
July 11	3000 gal.		
June 27	1082 gal.		
May 28	2650 gal.		
April 26	2485 gal.		
March 11	440 gal.		
Feb 21	550 gal.		
Feb 21	2050 gal.		
Jan 5	1796 gal		
Sept 13		5825 gal.	
March 11		3520 gal.	
TOTALS	19,889 GAL.	9345 GAL. *	3368 GAL.

* One third of this volume was phospate ester salvage from waste stream and returned to inventory.

4085

Phospate Ester fluid in circulation are estimated to be between 20,000 to 25,000 US gallons.

In addition to the above Central Foundry purchased new fluid during 1991 of approximately 8000 gallons.

Yours truly,

Mel Ash,
President.

MA*dh

cc: Al Corrion

804086

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : December 19, 1991.

Lab no.: 8637

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester #220 fire-resistant fluid, taken from a new fluid shippment by Azko Chemical Ltd., on December 13, 1991. Sample received on December 17, 1991.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	500
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	222
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.00
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.0%

Member of ASTM

Approved by

James Szeto, B.Sc.,
Chief Chemist

04087

All tests performed by Petro Laboratories will be conducted in accordance with the terms

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1568

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : December 19, 1991.

Lab no.: 8637

Attention : Mr. Al Corrion

ok

Dear Sir,

Below are the test results on a sample of Phosphate Ester #220 fire-resistant fluid, taken from a new fluid shippment by Azko Chemical Ltd., on December 13, 1991. Sample received on December 17, 1991.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	500
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	222
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.00
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.0%

Member of ASTM

Approved by

James Szeto, B.Sc.,
Chief Chemist

804088

Reclamation Services

SERVICE RECEIPT

14768

P.O. #: F739581

DATE: June 30, 1992

TO: Central Foundry, Division.,
General Motors Corp.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

60-55 gal drums

To reclaim and treat 3300 US gallons of water from desluding operation from waste phosphate ester storage tank, to acceptable standards.

7-55 gal drums

Generated: 385 gallon drums of solid waste (perlite and activated carbon mix).

ADDITIVE RECONSTITUTION:

Included in volume was the flushing and cleaning of waste phospate ester storage tank.

METER SETTING:

END:

START:

TOTAL VOLUME WATER & SOLIDS 3685 US GALLONS.

RECEIVED: X _____ 7/1/92

4089

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1688

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Sabinaw, MI 48605-5073,

Date : August 20, 1991

Lab no.: 8413

P.O.no.: F731575

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester taken from the tanker load shipped from Reclamation Services with respect to the Invoice # 4548, P.O.# F743219 on August 20/1991.

Test	ASTM Method	G.M.Specifications	Results
1. Flash Point	D92	425°F Min	455
2. Fire Point	D92	600°F Min	>600
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.100
4. Viscosity, SUS@100°F	D445	200 SSU Min	226
5. % Water	D96	0.10% Max.	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.1% Max	0.07
8. PCB content	EPA	Less than 1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3
10. Sodium, in ppm	by AA	100 ppm Max.	4
11. Mineral Oil	Methanol Split	1% Max.	1.5%

Member of ASTM

Approved By _____
James Szeto, B.Sc.,
Chief Chemist.

804090

All tests performed in Petro Laboratories will be conducted in accordance with the ASTM standards and ...

Reclamation Services

SERVICE RECEIPT 14782

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan, USA 48605

DATE: Aug 18, 1992

P.O.#: F739581

DESCRIPTION

(1) RECLAIMED 1589 US GALLONS OF PHOSPHATE ESTER
TO ACCEPTABLE STANDARDS.

(2) RECYCLED 3280 LITERS SUNVIS 752 HYD OIL
NO CHARGE

ADDITIVE RECONSTITUTION:

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
AUG 20 1992

METER SETTING: Start: 646940
End: 652954

Per

ALL WORK COMPLETE AND ACCEPTED: Dan Cook

804091

FAX: (416) 459-1559 U.S. TEL: (517) 754-3808

Reclamation Services

Aug 25, 1992

General Motors, Central Foundry.,
1629 N. Washington Ave.,
Saginaw, Michigan.,
USA 48605-5073

ATTN: Sue Schofield
Purchasing.

For your reference, below please find an outline of 1991-1992 reclamation project work for Central Foundry.

DATE	OIL RECYCLING	DESLUDGE WASTE	OIL SALES
Jan 5/91	1796 Gal.		
Feb 21	550		
Feb 21	2050		
March 11	440	3520 Gal.	
Apr 26	2485		
May 28	2650		
June 27	1082		
July 11	3000		
Aug 19			3368 Gal.
Sept 11	1810	5825	
Oct 21	1883		1815
Nov 25	2143		
Jan 20/92	2380		1402
Feb 10			3320
March 1	3740	6155	
April 15	5009		
May 27	5523		
June 22	3411		
June 30		3685	
July 9	1366	3300	
Aug 20	1589		
TOTALS	42,907 GAL.	22,485 GAL. *	9,905 GAL.

* One third of this volume was phospate ester salvage from waste stream and returned to inventory.

Yours truly,

Mel Ash.

MA*dh

4092

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

FAX TRANSMISSION SHEET

FROM : PETRO LABORATORIES INC.
140 ADVANCE BLVD., UNIT A, BRAMPTON, ONTARIO, L6T 4J4 TEL:(416) 458-0989
FAX NO. : (416) 458-1559

DATE Aug 26, 1992

TO: FAX NO. 517-757-2614 # OF PAGES 3

COMPANY Saginaw Grey Iron Plant.

ATTENTION: MR. Al Corrion

MESSAGE:

(LAB REPORT NO.) 1156, 45996

FROM: James Stefo

804093

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Avenue , Box 5073
Saginaw, MI 48605-5073

Date: August 26,1992

Lab no.: 1156

Attention: Mr. Al Corrion

Re; One Phosphorous Ester hydraulic fluid sample submitted on Aug 24,92 recycled from the used oil holding tank on August 18,1992 by Reclamation Services, Services Recipt no. 14782

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	500°F
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	209
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.02
7. Total Acid no. mg KOH/g	D974	0.12	0.18 (* Waste fluid - 0.39)
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3 ppm
10. Sodium, in ppm	by AA	100 ppm max	1 ppm
11. Mineral oil % by volume	Methanol Split	1% Max	0.8%

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

0041094

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Avenue , Box 5073
Saginaw, MI 48605-5073

Date: August 26,1992

Lab no.: 45996

Attention: Mr. Al Corrion

Re: One oil sample Sunvis 732 hydraulic oil recycled on August 18,1992 requested for the following analysis.

Tests	Typical Properties	Results
1. Viscosity, SSU @ 100°F	310	318
2. API Gravity	30.8	30.7
3. Colour, ASTM	2	2
4. Total acid no.	-	0.09
5. Pour Point°F	-25	0
6. Flash Point, °F	440	450
7. % Sediment by volume	0.00	0.00
8. % Water by volume	0.00	0.00

9. Metal and additives scan, in ppm level

Aluminum	Copper	Iron	Tin	Zinc	Chrominum	Lead	Magnesiu
<1	<1	<1	<1	48	<1	<1	<1

Barium	Molybdenum	Titanium	Silicon	Sodium	Nickel	Phosphorou
50	<1	<1	<1	<1	<1	64

Boron	Calcium
<1	1

The oil sample appears to be very clean and free form contaminant, it can be used for the original purposed intended.

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804095

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and using Federal Government technical standards

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.
Saginaw Grey Iron Plant
1629 N. Washington Avenue , Box 5073
Saginaw, MI 48605-5073

Date: September 14,1992

Lab no.: 46005-1 to 11

Attention: Mr. Dale Murlick

Re: 11 Phosphate ester hydraulic fluid samples taken on Sept 9,1992 from:-

1 - Line 6 Open drag
2 - Line 3 Open drag aerator
3 - Line 4 no. 2 drag
4 - Line 3 no. 1 drag system
5 - Line 3 cope system no. 1
6 - Line 4 no. 1 drag
7 - Line 4 no. 2 cope
8 - Line 4 no. 1 cope
9 - Line 4 drag draw
10 - #6 Conn mold conn drive unit
11 - #6 Conn #1 Drag Rolover Unit

Tests: - Metal and additives scan by ICP, results in ppm level.

Sample no. :	1	2	3	4	5	6	7	8	9	10	11
Aluminum	4	2	4	4	5	3	2	2	3	4	6
copper	3	5	3	2	6	3	16	22	4	41	4
Iron	7	5	11	5	9	3	6	6	4	10	7
Tin	0	0	0	0	0	0	0	0	0	0	0
Zinc	6	18	6	11	12	6	10	9	4	27	11
Chromium	6	6	6	6	6	6	6	6	6	6	5
Lead	0	0	0	0	0	0	0	0	0	0	0
Magnesium	1	1	1	1	2	1	1	1	1	1	2
Barium	0	0	0	0	0	0	0	0	0	0	0
Molybdenum	0	0	0	0	0	0	0	0	0	0	0
Titanium	0	0	0	0	0	0	0	0	0	0	0
Silicon	5	7	6	5	8	6	9	8	6	5	5
Sodium	4	9	4	3	8	8	12	11	10	5	32
Nickel	0	0	0	0	0	0	0	0	0	0	0
Phosphorous	99999	99999	99999	99999	99999	99999	9999	99999	99999	99999	99999
Boron	1	2	1	2	1	0	2	2	1	1	0
Calcium	6	7	8	6	6	4	4	4	4	6	7
Total Acid no. TAN	0.39	2.1	0.40	0.28	0.35	0.20	2.71	2.84	0.33	0.51	0.23
Water in ppm	571	276	739	1823	786	828	429	503	749	829	819

Member of ASTM
JS:js
CC: S.Schofield, A. Corrion ,
A. Szymanski , B. Atwood, N. Yockey.

Approved By
James Szeto,
Chief Chemist

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damages resulted directly or indirectly from any default, error or omission.

004096

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : September 21, 1992.

Lab no.: 1191

Attention : Mr. Al Corrion

Re : One composite Phosphorous Ester hydraulic fluid sample submitted on September 17/92 by Reclamation Services. This batch is for oil sale to Central Foundry and to be delievered on September 22/92. GM P.O.#F747501.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point,°F	D-92	425°F min	440
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.100
4. Viscosity, SUS @ 100°F	D-88	200 min	215
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.09
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	3
11. Mineral Oil, % by Volume	Methanol Split	1 % max	1.0%

Member of ASTM
JS : js

Approved by
James Szeto,
Chief Chemist.

804097

FILE

Reclamation Services

14796

SERVICE RECEIPT

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan

DATE: Sept 29/92

P.O.#: F739581

DESCRIPTION

RECLAIMED 2837 US GALLONS OF PHOSPHATE ESTER

TO ACCEPTABLE STANDARDS.

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
OCT 2 1992

ADDITIVE RECONSTITUTION:

METER SETTING: Start: 14230

End: 24970

Per

ALL WORK COMPLETE AND ACCEPTED:

804098

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : October 8, 1992.

Lab no.: 1222

Attention : Mr. Al Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on Oct 6/92, recycled from the used oil holding tank on October 1, 1992 by Reclamation Services, services Recipt no. 14796.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point,°F	D-92	425°F min	470
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D-88	200 min	211
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.15
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0%

Member of ASTM
JS : js

Approved by _____
James Szeto,
Chief Chemist.

804099

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

FILE

Reclamation Services

14801

SERVICE RECEIPT

TO: Central Foundry, Div GM.,
1629 N. Washington ave.,
Saginaw, Michigan.,
USA 48605

DATE: Oct20, 1992

P.O.#: SGI - F739581

DESCRIPTION

RECLAIMED 1985 US GALLONS OF PHOSPHATE ESTER

TO ACCEPTABLE STANDARDS.

ADDITIVE RECONSTITUTION:

METER SETTING: Start: 62159

End: 69670

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
OCT 22 1992

ALL WORK COMPLETE & ACCEPTED: NG

Per

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

04100

FILE

Reclamation Services Limited

SERVICE RECEIPT 014691

P.O. #: F739581

DATE: Oct 21, 1991

TO: Central Foundry Division.,
General Motors Corporation.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

ATTN: Mr. Al Corrion

DESCRIPTION:

Reclaimed 1883 US GALLONS of PHOSPATE ESTER

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END: 73860

START: 66770

RECEIVED: B Corrion

804101

HEAD OFFICE: 140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 (416) 458-0990 FAX: (416) 458-1568
U.S. DIVISION: RECLAMATION SERVICES INC., 3720 E. WASHINGTON RD., SAGINAW, MICHIGAN 48601 (517) 754-3808

Reclamation Services

14809

SERVICE RECEIPT

P.O. #: F739581 DATE: Oct 22, 1992

TO: Central Foundry, Division.,
General Motors Corp.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

~~11-55 US GAL Drums~~ 09657-02

To reclaim and treat 6105 ✓ US gallons of water from desluding operation from waste phosphate ester storage tank, to acceptable standards.

11-55 US GAL Drums
Generated: 605 gallon drums of solid waste (perlite and activated carbon mix).

ADDITIVE RECONSTITUTION:

Included in volume was the flushing and cleaning of waste phospate ester storage tank.

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
OCT 29 1992
66651
NG

METER SETTING:

END:

START:

TOTAL VOLUME WATER & SOLIDS 6710 US GALLONS.

Per

RECEIVED:

6105
605
6710

804102

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : October 28, 1992.

Lab no.: 1256

Attention : Mr. Al Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on Oct 26/92, recycled from the used oil holding tank on October 23, 1992 by Reclamation Services, services Recipt no. 14801

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point, °F	D-92	425°F min	495
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D-88	200 min	214
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.02
7. Total Acid no., mg KOH/g	D974	0.15	0.15
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	33
10. Sodium, in ppm	by AA	100 ppm max	11
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0

Member of ASTM
JS : js

Approved by
James Szeto,
Chief Chemist.

804103

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 9, 1992

Lab no.: 1343

Attention: Mr. Al Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on December 7,92 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Dec 7,92. GM P.O. # F74501.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	465
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.100
4. Viscosity, SUS @ 100°F	D88	200 min	218
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.06
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	1

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804104

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM ... but neither ... nor ...

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 9, 1992

Lab no.: 1343

Attention: Mr. Al Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on December 7,92 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Dec 7,92. GM P.O. # F74501.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	465
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.100
4. Viscosity, SUS @ 100°F	D88	200 min	218
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.06
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	1

Approved By _____
James Szeto,
Chief chemist

Member of ASTM
JS:js

804105

Reclamation Services

14818

SERVICE RECEIPT

NG 69261 - 12/14/92

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan.,
USA 48605

DATE: Dec 9, 1992

P.O.#: SGI-F739581

DESCRIPTION

RECLAIM

RECLAIMED 4,984 US GALLONS OF PHOSPATE ESTER

TO ACCEPTABLE STANDARDS.

ADDITIVE RECONSTITUTION: Yes _____ No _____

Volume: Litres 18860 Gallons 4,984

METER SETTING: End: 57960 Start 38830 Total 18860

SITE LEFT CLEAN & ORDERLY.	Per: Oil Recycling Technician
Customer: ?	John Wells

ALL WORK COMPLETE & ACCEPTED: M. Hoff Who?

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 15, 1992

Lab no.: 1347

Attention: Mr. Al. Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on Dec 14,92 recycled from the used oil holding tank on December 10, 1992 by Reclamation Services.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	490
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	208
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral oil % by volume	Methanol Split	1% Max	0.00

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804107

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

014719

Reclamation Services

SERVICE RECEIPT

P.O. #: F739581 **DATE:** Jan 20, 1992

TO: Central Foundry Division.,
General Motors Corporation.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

DESCRIPTION:

Reclaimed 2380 US GALLONS of PHOSPATE ESTER

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

RECEIVED: x

804108

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel:(416) 458-0989 Fax:(416) 458-1588

59

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : January 20, 1992.

Lab no.: 8689

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a composite sample of Phosphate Ester hydraulic fluid, submitted on : January 17, 1992 by Reclamation Services, for shippment of oil sale to Central Foundry. (P.O.# F 747501)

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	450
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	208
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.09
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.0%

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

804109

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : January 27, 1992.

Lab no.: 8701

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of phosphate Ester hydraulic fluid submitted on: January 24, 1992. This sample is recycled from your used oil holding tank on January 22, 1992, by Reclamation Services, services Recipt 14719.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	440
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.110
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	207
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.11
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	12 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	2 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00

Member of ASTM

Approved by _____
James Szeto, B.Sc.,
Chief Chemist

04110

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : February 11, 1992.

Lab no.: 9736

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a composite sample of Phosphate Ester hydraulic fluid, submitted on : February 10, 1992, by Reclamation Services, for shippment of oil sale to Central Foundry. (P.O.# F 747501) (Delievered on February 10, 1992)

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	470
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	217
5. % Water	D96	0.10% max	0.0
6. % Sediment	D96	0.03% Max.	0.0
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.12
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

804111

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and prior Federal Government technical...

014727

Reclamation Services

SERVICE RECEIPT

P.O. #:F739581 **DATE:** Feb 19, 1992

TO: Central Foundry, Division
General Motors Corp.,
1629 N. Washington Ave.,
Saginaw, Michigan
USA 48605

DESCRIPTION:

Reclaimed 3740 US GALLONS of PHOSPATE ESTER

To Acceptable Standards.

ADDITIVE RECONSTITUTION:

METER SETTING:

END:

START:

x Paul J. Cooper

04112

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : March 2, 1992.

Lab no.: 9771

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a composite sample of Phosphate Ester hydraulic fluid, submitted on : February 28, 1992 by Reclamation Services, after recycled from the waste fluid holding tank on February 26, 1992.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	480
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.122
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	214
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.14
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	4 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

804113

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : April 22, 1992.

Lab no.: 9869

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on April 20, 1992. This sample is recycled from your used oil holding tank on April 13, 1992, by Reclamation Services, Service Recipt 14745.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	455°F
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	214
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	*0.15
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	3 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

* Total Acid number of the sample before recycling was 0.37

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

04114

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

AKZO-GALLIPOLIS FERRY
CERTIFICATE OF ANALYSIS
REFERENCE ICS #: 244

AKZO

AGF DOC #: 25-LA-8400
VERSION: 1-920505
ISSUED BY: SKW

Chemicals Division

CERTIFICATE OF ANALYSIS

FYRQUEL 220

LOT NUMBER:	2420E- 3- 1	SHIPPED:	5-14-92
LAB NUMBER:	P-2355	COMPANY:	GENERAL MOTORS
DATE:	5-14-92	LOCATION:	SAGINAW MI
ORDER NUMBER:	224174	FREIGHT:	T/T
P. O. NUMBER:	F746063#048678	QUANTITY:	T/T

TEST RESULTS

PROPERTY	RESULTS
APPEARANCE	CTL
ODOR	EN
SPECIFIC GRAVITY, @60/60 deg. F.	1.160
ACIDITY, mgKOH/gm	0.02
WATER CONTENT, wt.%	0.02
VISCOSITY, SUS @100 deg. F.	218.3
CUSTOMER CODE	F46063
ITEM# 0557-0365	

804115

QUALITY ASSURANCE SUPERVISOR

5-14-92
DATE

Akzo Chemicals Inc.
Route 2
P.O. Box 1721
Gallipolis Ferry
West Virginia 25515-1721

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Telephone:(416) 458-0989
Fax : (416) 458-1559

FAX TRANSMISSION SHEET

TO: MR. Al Corrion
Central Foundry division -G.M.C.
Saginaw Grey Iron Plant
1629 N Washington Ave.,
Saginaw, MI 48605-5073

FROM: Petro Laboratories Inc.

MAY 21, 1992

NO. PAGES (INCLUDING THIS ONE) 2

MESSAGE: Lab report to attention of Mr. Al Corrion
LAB N° 9938

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 n. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : May 21, 1992.

Lab no.: 9938

Attention : Mr. Al Corrion

Dear Sir,
Below are the test results on a sample of Phosphate Ester Azko #220 fire-resistant fluid, taken from a new fluid shippment by Azko Chemical Ltd. Sample received on May 20,1992.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	500
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.150
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	215
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% Max.	0.00
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.00
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.0%

804117

Member of ASTM
JS:js

Approved by _____
James Szeto, B.Sc.,
Chief Chemist

Reclamation Services

SERVICE RECEIPT

14757

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan, USA 48605

DATE: May 27, 1992

P.O.#: F739581

DESCRIPTION

RECLAIMED 5553 Total / -30 Previous 50L / 5523 ✓ US GALLONS OF PHOSPATE ESTER

TO ACCEPTABLE STANDARDS.

ADDITIVE RECONSTITUTION: _____

METER SETTING: Start: 3514200 L

End: 3535220 L

Total 21020 L

ALL WORK COMPLETE AND ACCEPTED: [signature]

804118

757-1035

MIKE SANDOW

FAX 6/15/92

FAX PLS

FILE

Reclamation Services

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
MAY 27 1992
Per

GST REGISTRATION #R106396831

INVOICE

TO: Central Foundry, Division
General Motors Corp.,
3629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

DATE: May 27, 1992

INVOICE#: 4656

P.O.#: F739581

TERMS: 2% 10 days.

SERV REC#: 14757

ATTN: Mr. Al Corrion

STORES CODE: RECLAIM

To reclaim US Gallons of Phospate Ester Hydraulic Fluid to acceptable standards at Saginaw Grey Iron Plant.

Price: 5523 gallons @ $3.15/gal. $17397.45

STORES C. E: RECLAIM #1

As per confirmation with Al Corrion/M. Ash: Special surcharge to provide additional reclamation to reduce excess acid condition.

Price: 5523 gallons @ $1.35/ gal. $7456.05

TOTAL $24853.50

ALL PRICES IN US FUNDS.
ALL WORK COMPLETE & DELIVERED.
NON TAXABLE FOR INDUSTRIAL PROCESSING.

TOTAL DUE $24853.50

804119

Reclamation Services

FAX TRANSMITTAL SHEET

TO FAX#: 517-757-7053

DATE: June 12, 1992.

Central Foundry, Div of GM.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

ATTN: Mike Sandow

FROM: Donna Hunt, Office Manager

MESSAGE: Further to our conversation, enclosed please find a copy of invoice 4656, as well as a copy of the service receipt.
I spoke to Al Corrion to see if he had processed this from his end and he told me it was signed and sent to you on May 27, 1992.
However in order to speed processing of this invoice, I have also sent a copy to Al Corrion for signature and to be sent to you again.

Thank you for your assistance in this matter.

NO. OF SHEETS ___3_____ INCLUDING TRANSMITTAL SHEET.

cc: Al Corrion - Fax 517-757-2614 ✓

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 | TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

7742

Reclamation Services

SERVICE RECEIPT 14757

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan, USA 48605

DATE: May 27, 1992

P.O.#: F739581

DESCRIPTION

RECLAIMED 5553 Total − 30 Previous Job = 5523 US GALLONS OF PHOSPATE ESTER

TO ACCEPTABLE STANDARDS.

ADDITIVE RECONSTITUTION:

METER SETTING: Start: 3514200 L

End: 3535220 L

Total 21020 L

ALL WORK COMPLETE AND ACCEPTED: [signature]

804121

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : June 4, 1992.

Lab no.: 9985

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on June 2, 1992. This sample is recycled from your used oil holding tank on May 27, 1992, by Reclamation Services, Service Recipt 14757.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	470°F
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.120
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	209
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.07
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	<1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

Member of ASTM

Approved by

James Szeto, B.Sc.,
Chief Chemist

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and where Federal Government technical standards

04122

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073,
Saginaw, MI 48605-5073

Date : June 29, 1992.

Lab no.: 1049

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on June 26, 1992. This sample is recycled from your used oil holding tank on June 24, 1992, by Reclamation Services, Service Recipt 14764.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	500 °F
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.135
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	214
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.12
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	2 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	<1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

Member of ASTM

Approved by
James Szeto, B.Sc.,
Chief Chemist

804123

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and/or Federal Government methods standards

Reclamation Services

June 30, 1992.

General Motors, Central Foundry.,
1629 N. Washington Ave.,
Saginaw, Michigan.,
USA 48605-5073

ATTN: Sue Schofield,
Purchasing.

For your reference, below please find an outline of 1991/1992 reclamation project work for Central Foundry.

DATE	OIL RECYCLING	DESLUDGE WASTE	OIL SALES
Jan 5/91	1796 Gal.		
Feb 21	550		
Feb 21	2050		
March 11	440	3520 Gal.	
Apr 26	2485		
May 28	2650		
June 27	1082		
July 11	3000		
Aug 19			3368 Gal.
Sept 11	1810	5825	
Oct 21	1883		1815
Nov 25	2143		
Jan 20/92	2380		1402
Feb 10			3320
March 1	3740	6155	
April 15	5009		
May 27	5523		
June 22	3411		
TOTALS	39,952 GAL.	15,500 GAL.*	9,905 GAL.

* One third of this volume was phospate ester salvage from waste stream and returned to inventory.

Yours truly,

MA*dh

Mel Ash.

804124

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

Reclamation Services

SERVICE RECEIPT

14770

P.O. #: F739581

DATE: July 8, 1992

TO: Central Foundry, Division.,
General Motors Corp.,
1629 N. Washington Ave.,
Saginaw, Michigan.
USA 48605

53-55 gal drums clean water
2-55 gal drums waste oil pumped into waste oil tank.

To reclaim and treat 55-55gal = 3025 US gallons of water from desluding operation from waste phosphate ester storage tank, to acceptable standards.

Generated: 5-55 gal = 275 gallon drums of solid waste (perlite and activated carbon mix).

ADDITIVE RECONSTITUTION:

Included in volume was the flushing and cleaning of waste phospate ester storage tank.

METER SETTING:

END:

START:

TOTAL VOLUME WATER & SOLIDS 3300 US GALLONS.

RECEIVED: x

804125

Reclamation Services

SERVICE RECEIPT

14767

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, Michigan, USA 48605

DATE: July 09/92.

P.O.#: F739581

DESCRIPTION

RECLAIMED 1366 US GALLONS OF PHOSPATE ESTER

TO ACCEPTABLE STANDARDS.

ADDITIVE RECONSTITUTION: _____

METER SETTING: Start: 3590770

End: 3595940

5170 L ÷ 3.785

ALL WORK COMPLETE AND ACCEPTED: _____

4126

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-3808

OK TO MOVE TO BULK TANK

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division-G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Ave., Box 5073
Saginaw, MI 48605-5073

Date : July 13, 1992.

Lab no.: 1078

Attention : Mr. Al Corrion

Dear Sir,

Below are the test results on a sample of Phosphate Ester hydraulic fluid submitted on July 10, 1992. This sample is recycled from your used oil holding tank on July 9, 1992, by Reclamation Services. Service Recipt # 14770.

Test	ASTM METHOD	G.M. SPEC.	RESULTS
1. Flash Point	D92	425°F Min	480°F
2. Fire Point	D92	600°F Min	>600°F
3. Specific Gravity @ 60°F	D1298	1.141 @ 60°F	1.125
4. Viscosity, SUS @ 100°F	D445	200 SSU Min	208
5. % Water	D96	0.10% max	0.00%
6. % Sediment	D96	0.03% Max.	0.00%
7. Total Acid no. mg KOH/g	D974	0.15 Max	0.13
8. PCB content	EPA	Less than 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm Max.	< 1 ppm
10. Sodium, in ppm	by AA	100 ppm Max.	< 1 ppm
11. Mineral oil	Methanol Split	1% Max.	0.00%

Member of ASTM
JS:js

Approved by
James Szeto, B.Sc.
Chief Chemist

804127

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damages resulting directly or indirectly

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : October 8, 1992.

Lab no.: 1222

Attention : Mr. Al Corrion

Re : One Phosphorous Ester hydraulic fluid sample submitted on Oct 6/92, recycled from the used oil holding tank on October 1, 1992 by Reclamation Services, services Recipt no. 14796.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point, °F	D-92	425°F min	470
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D-88	200 min	211
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.15
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0%

Member of ASTM
JS : js

Approved by
James Szeto,
Chief Chemist.

4128

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards but neither it nor its employees shall be responsible for any loss or damage ...

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: January 20, 1993

Lab no.: 1413

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on January 19,93 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Jan 20,93. GM P.O. # F74501.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	465
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.110
4. Viscosity, SUS @ 100°F	D88	200 min	219
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.02
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804129

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards

Ok Files

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

ntral Foundry Division- G.M.C.,
ginaw Grey Iron Plant,
29 N. Washington Avenue, Box 5073,
ginaw, MI 48605-5073

Date: January 20, 1993

Lab no.: 1413

:ention: Mr. Al Corrion

0557036J

: One Phosphate Ester hydraulic fluid sample submitted on
uary 19,93 by Reclamation Services . This is a composite sample
m a batch of oil shippment delivered to Central Foundry on Jan 20,93.
P.O. # F74501.

:s	ASTM Method	G.M. Spec.	Test Results
'lash Point	D92	425°F min	465
ire Point	D92	600°F min	>600°F
pecific Gravity 60°F	D1298	1.1421	1.110
.scosity, S @ 100°F	D88	200 min	219
Water	D96	0.10% max	0.00
Sediment	D96	0.03% max	0.00
:al Acid no. KOH/g	D974	0.15	0.02
content	EPA	<1 ppm	<1 ppm
cium, in ppm	by AA	50 ppm max	2
dium, in ppm	by AA	100 ppm max	1
ieral oil volume	Methanol Split	1% Max	0.0

of ASTM

Approved By
James Szeto,

804130

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: January 20, 1993

Lab no.: 1410

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Jan 18,93 recycled from the used oil holding tank on January 13, 1993 by Reclamation Services.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	490
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	211
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.00

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804131

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and other Federal Government technical standards

Old Faclon

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: January 20, 1993

Lab no.: 1410

Attention: Mr. Al Corrion

RECLAIM

Re : One Phosphate Ester hydraulic fluid sample submitted on Jan 18,93 recycled from the used oil holding tank on January 13, 1993 by Reclamation Services.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	490
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	211
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.00

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: February 12, 1993

Lab no.: 1472

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on February 11, 93 recycled from the Used oil holding tank by Reclamation Services, Service receipt no. 14841.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	490
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	225
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.03
7. Total Acid no. mg KOH/g	D974	0.15	0.12
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	5
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,
Chief Chemist

OK FILE

804133

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

FAX TRANSMISSION SHEET

FROM : PETRO LABORATORIES INC.

144 ADVANCE BLVD. UNIT 3, BRAMPTON, ONTARIO, L6T 4J4 TEL:(416) 458-0040

FAX NO. : (416) 458-1559

DATE Feb 12/93

TO: FAX NO. 517-757-1718 # OF PAGES 2

COMPANY CENTRAL FOUNDRY - GMC.

ATTENTION: Al. CORRION

MESSAGE:

(LAB REPORT NO:) (1472)

FROM: JAMES SZETO

804134

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: April 13, 1993

Lab no.: 1569

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on April 8,1993. This is a composite sample taken from a batch of new fluid shippment delivered to Central Foundry on April 7,93 by Akzo Chemical. GM P.O. no. F756580, Item no. 0557-0365.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	500
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.150
4. Viscosity, SUS @ 100°F	D88	200 min	217
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.01
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By _____
James Szeto,
Chief chemist

804135

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: April 13, 1993

Lab no.: 1569

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on April 8,1993. This is a composite sample taken from a batch of new fluid shippment delivered to Central Foundry on April 7,93 by Akzo Chemical. GM P.O. no. F756580, Item no. 0557-0365.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	500
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.150
4. Viscosity, SUS @ 100°F	D88	200 min	217
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.01
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,
Chief Chemist

804136

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and where Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulting directly or indirectly from any opinion, error or omission.

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: May 3, 1993

Lab no.: 1598

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on April 30, 93 recycled from the Used oil holding tank by Reclamation Services, Service receipt no. 24851.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.135
4. Viscosity, SUS @ 100°F	D88	200 min	215
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.01
7. Total Acid no. mg KOH/g	D974	0.15	0.10 (0.37 on sample before recycling)
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	4
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804137

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

GM **POWERTRAIN**

Subject: Water in Hydraulic Fluid

Date: April 19, 1993

To: R. Geist
M. Pfenninger
D. Ryon

Phosphate ester hydraulic fluid is a high temperature application material used in the hot box areas, and the foundry. The cost to purchase new and dispose of contaminated material is significantly higher than the cost of reclaiming used fluid. Therefore, SGI reclaims phosphate ester hydraulic fluid on site, on an as needed basis.

It has been brought to my attention that the water to oil ratio of phosphate ester hydraulic fluid has been increasing. In 1991 Reclamation Services removed 8,000 gallons of water. In 1992 it went to 18,000 gallons. To date in 1993, 10,000 gallons have been separated. The cost of separating the oil and water has been $4.50/gal, however, since the amount of water has been increasing the supplier has reduced the cost to process the water to, $3.00/gal, while maintaining the same pricing on the oil portion.

Year	Water gal	Oil gal	Total gal	Water/Oil Ratio	$/gal	Cost $
1990	11,512	29,108	40,620	0.4	$4.50	$182,790
1991	8,305	19,889	28,194	0.4	$4.50	$126,873
1992	17,840	23,018	40,858	0.8	$4.50	$183,861
1993	10,907	5,205	16,112	2.1	$3/4.50	$56,144

Prior to last year the contaminated hydraulic fluid was pumped into totes and treated after approximately 3,000 gallons had been accumulated. During 1992, piping changes on lines 3 and 4 were made to allow the spent hydraulic fluid to be accumulated in a tank in the oil house. Line 6 is still accumulated in totes at the line. The increase in the amount of water appears to have taken place at about the same time as the piping change on lines 3 and 4. Could you please have some one in your organizations evaluate the system, find and correct the source(s) of water, to help reduce the cost. I or my organization would be glad to assist in any way. We would also be interested in hearing the results of your findings.

Thank you.

Kathy

K. Leikert (7-1642)

c: A. Corrion, S. Harringa, C. Newell, D. Phillips, J. Toth

GM POWERTRAIN DIVISION • General Motors Corporation • Casting Operations • P.O. Box 5073 • Saginaw, Michigan 48605-5073

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: May 27, 1993

Lab no.: 1653

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on May 25,1993 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on May 25,93. GM P.O. # SGII700417, item no.: 0557-0365.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	495
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.105
4. Viscosity, SUS @ 100°F	D88	200 min	213
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.11
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.5

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804139

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

OK FILE

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1560

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: May 27, 1993

Lab no.: 1653

J561 CAL

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on May 25,1993 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on May 25,93. GM P.O. # SGII700417, item no.: 0557-0365.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	495
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.105
4. Viscosity, SUS @ 100°F	D88	200 min	213
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.11
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	1
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.5

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804140

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: June 21, 1993

Lab no.: 1705

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on June 18, 93 recycled from the Used oil holding tank by Reclamation Services on June 16,1993.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	214
5. % Water by volume	D96	0.10% max	0.00
6. % Sediment by volume	D96	0.03% max	0.02
7. Total Acid no. mg KOH/g	D974	0.15 (0.48 on sample before recyling)	0.07
8. PCB content, in ppm	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	0
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By _____
James Szeto,B.Sc.
Chief chemist

804141

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: June 21, 1993

Lab no.: 1705

OK FILE

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on June 18, 93 recycled from the Used oil holding tank by Reclamation Services on June 16,1993.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	214
5. % Water by volume	D96	0.10% max	0.00
6. % Sediment by volume	D96	0.03% max	0.02
7. Total Acid no. mg KOH/g	D974	0.15 (0.48 on sample before recyling)	0.07
8. PCB content, in ppm	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	0
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By_____
James Szeto,B.Sc.
Chief chemist

8041142

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and other Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : June 29,1993

Lab no.: 1713

Attention : Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on June 25,93, recycled from the used oil holding tank on June 22,1993 by Reclamation Services, Services Recipt no. 14886.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point,°F	D-92	425°F min	485
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D-88	200 min	210
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.05
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	9
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0

Member of ASTM
JS : js

Approved by
James Szeto,B.Sc.
Chief Chemist.

804143

Petro Laboratories Inc.
140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : June 29,1993

Lab no.: 1713

Attention : Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on June 25,93, recycled from the used oil holding tank on June 22,1993 by Reclamation Services, Services Recipt no. 14886.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point,°F	D-92	425°F min	485
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D-88	200 min	210
5. % Water,	D-96	0.10% max	0.00
6. % Sediment,	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.05
8. PCB Contont	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	9
10. Sodium, in ppm	by AA	100 ppm max	2
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0

Member of ASTM
JS : js

Approved by
James Szeto,B.Sc.
Chief Chemist.

004144

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards. Neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: August 12, 1993

Lab no.: 1781

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on August 9,93 recycled from the used oil holding tank on August 6, 1993 . Reclamation Services- Ser. Receipt no. 14901.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	210
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.01
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	5
10. Sodium, in ppm	by AA	100 ppm max	4
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto, B.Sc.
Chief Chemist

804145

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: August 12, 1993

Lab no.: 1781

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on August 9,93 recycled from the used oil holding tank on August 6, 1993 .
Reclamation Services- Ser. Receipt no. 14901.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D88	200 min	210
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.01
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	5
10. Sodium, in ppm	by AA	100 ppm max	4
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,B.Sc.
Chief chemist

All tests performed by Petro Laboratories will be conducted in accordance with the ...

Reclamation Services

14930

SERVICE RECEIPT

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, MI
48605

DATE:

P.O.#: SGI-F739581

DESCRIPTION

ITEM: RECLAIM

RECLAIMED 3645 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

ITEM: RECLAIM #1.

RECLAIMED 3645 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

METER SETTING: End: 4184500 Start 4170700 Total 13800

SITE LEFT CLEAN & ORDERLY.	Per: Oil Recycling Technician
Customer:	JOHN WILLS

9-16-93

ALL WORK COMPLETE & ACCEPTED:

804147

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 Fax: (416) 458-1559

Central Foundry Division - G.M.C.
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date : September 20, 1993

Lab no.: 1832

Attention : Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Sept 17,93 recycled from the used oil holding tank on September 16,1993 by Reclamation Services, Services Receipt no. 14930.

Tests	ASTM Method	GM Spec.	Test Result
1. Flash Point, °F	D-92	425°F min	490
2. Fire Point, °F	D-92	600°F min	>600°F
3. Specific Gravity, @ 60°F	D-1298	1.1421	1.120
4. Viscosity, SUS @ 100°F	D-88	200 min	211
5. % Water, by volume	D-96	0.10% max	0.00
6. % Sediment, by volume	D -96	0.03% max	0.00
7. Total Acid no., mg KOH/g	D974	0.15	0.05
8. PCB Content	EPA	< 1 ppm	< 1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	4
11. Mineral Oil, % by Volume	Methanol Split	1 % max	0.0

804148

Member of ASTM
JS : js

Approved by
James Szeto, B.Sc.
Chief Chemist

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Reclamation Services

14947

SERVICE RECEIPT

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, MI
48605

DATE: Oct 28/93

P.O.#: SGI-F739581

DESCRIPTION

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
OCT 28 1993

ITEM: RECLAIM

RECLAIMED 2765 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

Per: [signature]

ITEM: RECLAIM #1.

RECLAIMED 2765 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

METER SETTING: End: 4256045 Start 4245580 Total 10465

SITE LEFT CLEAN & ORDERLY.

Customer:

Per: Oil Recycling Technician

[signature]

ALL WORK COMPLETE & ACCEPTED:

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0000 FAX: (416) 458-0000

804149

Petro Lab

OLFILE

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (416) 458-0989 905 Fax: (416) 458-1559 905

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: October 29, 1993

Lab no.: 1902

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Oct 29/93 recycled from the used oil holding tank on October 27, 1993. Service Receipt no. 14947.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	485
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.135
4. Viscosity, SUS @ 100°F	D88	200 min	213
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.01
7. Total Acid no. mg KOH/g	D974	0.15	0.12
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved by
James Szeto, B.Sc.
Chief chemist

804150

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and other Federal Government industrial standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

FAX TRANSMISSION SHEET

FROM : PETRO LABORATORIES INC. 905
140 ADVANCE BLVD. UNIT 5, BRAMPTON, ONTARIO, L6T 4J4 TEL:(416) 458-0020
FAX NO. : (416) 458-1559

DATE Dec 17, 93

TO: FAX NO. 517-757-1718 # OF PAGES 2

COMPANY CENTRAL FOUNDRY - GMC

ATTENTION: Al. CORRION

MESSAGE:

(LAB REPORT NO:) (1976)

Recycled Bag Ash Color

FROM: JAMES SZETO

804151

Petro Laboratories Inc.

140 Advance Blvd., Unit 2, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1669

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 17, 1993

Lab no.: 1976

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Dec 16,93 recycled from the used oil holding tank on Dec 15, 1993.
Service Receipt no. 14998.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	218
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.05
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:ja

Approved By
James Szeto,B.Sc.
Chief Chemist

804152

All tests performed by Petro Laboratories Inc. are conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 17, 1993

Lab no.: 1976

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Dec 16,93 recycled from the used oil holding tank on Dec 15, 1993.
Service Receipt no. 14998.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	218
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.05
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto, B.Sc.
Chief Chemist

804153

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from

FAX TRANSMISSION SHEET

FROM : PETRO LABORATORIES INC. 905
140 ADVANCE BLVD. UNIT 3, BRAMPTON, ONTARIO, L6T 4A1 TEL:(416) 458-0459
FAX NO. : (416) 458-1559

DATE Dec 20, 93

TO: FAX NO. 517-757-1718 # OF PAGES 2

COMPANY CENTRAL FOUNDRY - GMC

ATTENTION: Al. CORRION

MESSAGE:

(LAB REPORT NO:) (1977)

BATCH OF OIL SALE

FROM: JAMES SUETO

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 20, 1993

Lab no.: 1977

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Dec 17,1993 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Dec 20,93. GM P.O. # PSB00048, Release # PSR04164

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	485
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.105
4. Viscosity, SUS @ 100°F	D88	200 min	210
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.13
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	1

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

804155

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and other Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: December 20, 1993

Lab no.: 1977

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on Dec 17,1993 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Dec 20,93. GM P.O. # PSB00048, Release # PSR04164

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	485
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.105
4. Viscosity, SUS @ 100°F	D88	200 min	210
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.13
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	2
10. Sodium, in ppm	by AA	100 ppm max	1
11. Mineral oil % by volume	Methanol Split	1% Max	1

Member of ASTM
JS:js

Approved By
James Szeto,
Chief chemist

4156

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and other Federal Government technical standards

OK Files

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: February 1, 1994

Lab no.: 2041

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on January 28,1994 by Reclamation Services . This is a composite sample from a batch of oil shippment delivered to Central Foundry on Jan 31,94. GM P.O. # PSB00048, Release no.: PSR05860.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	465
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.125
4. Viscosity, SUS @ 100°F	D88	200 min	230
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.11
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	10
10. Sodium, in ppm	by AA	100 ppm max	3
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM
JS:js

Approved By
James Szeto,B.Sc.
Chief chemist

804157

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards.

Petro Laboratories Inc.

140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Attention: Mr. Al Corrion

Date: February 23,1994

Lab no.: 2086

P.O. no.: PSM 99020

Re : One Phosphate Ester hydraulic fluid sample submitted on Feb 21,94 recycled from the used oil holding tank on Feb 17,1994., P.O. #PSM99002.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.110
4. Viscosity, SUS @ 100°F	D88	200 min	223
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.14
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	<1
10. Sodium, in ppm	by AA	100 ppm max	3
11. Mineral oil % by volume	Methanol Split	1% Max	0.98

Member of ASTM
JS:js

Approved By _____
James Szeto,B.Sc.
Chief chemist

4158

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damages resulted directly or indirectly from any defects, errors or omissions

Reclamation Services

SERVICE RECEIPT

TO: Central Foundry, Div of GM
1629 N. Washington Avenue
Saginaw, Michigan
48605

DATE: Feb 22. /94

P.O.#: PSM 99002

D 13945

DESCRIPTION

ITEM # : 096057-03

6" @ 620 gal Per Foot.
(waste oil tank).

TO SEPARATE & TRANSFER 310 GALLON/DRUMS OF OIL.

from desludging operation from waste phosphate ester storage tank.

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT

FEB 22 1994

METER SETTING: End: _____ Start _____ Total _____

TOTAL VOLUME OIL 310 US GALLONS

NG
PER

SITE LEFT CLEAN & ORDERLY.	Per: Oil Recycling Technician
Customer: _____	David Ohl.

ALL WORK COMPLETE & ACCEPTED: _____

804159

Reclamation Services

SERVICE RECEIPT

TO: Central Foundry, Div of GM
1629 N. Washington Avenue
Saginaw, Michigan
48605

DATE: Feb 22 /94

P.O.#: PSM 99002

- 013942

DESCRIPTION

ITEM # : 096057-03

26 - DRUM @ 55 - GALLONS EACH.

TO SEPARATE & PREPARE 1430 GALLON / DRUMS OF SOLID WASTE,

from desludging operation from waste phosphate ester storage tank.

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
FEB 22 1994

METER SETTING: End: _____ Start _____ Total _____

TOTAL VOLUME SOLIDS 1430 US GALLONS.

NG

PER RJC

SITE LEFT CLEAN & ORDERLY.	Per: Oil Recycling Technician
Customer: _____	DAVID ORAL.

ALL WORK COMPLETE & ACCEPTED: _____

4160

013921

Reclamation Services

SERVICE RECEIPT

TO: Central Foundry, Div of GM
1629 N. Washington Avenue
Saginaw, Michigan
48605

DATE: Feb 22 /94

P.O.#: PSM 99002

DESCRIPTION

9' x 620 Per Foot.

ITEM # : 096057-02

TO RECLAIM & TREAT 5580 GALLON / DRUMS OF WATER.

from desludging operation from waste phosphate ester storage tank to acceptable standards

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT

FEB 22 1994

TOTAL VOLUME WATER 5580 US GALLONS

NO

PER PJG

SITE LEFT CLEAN & ORDERLY.	Per: Oil Recycling Technician
Customer:	DAVID

ALL WORK COMPLETE & ACCEPTED: _____

804161

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Attention: Mr. Al Corrion

Date: March 22,1994

Lab no.: 2146

P.O. no.: PSM 99020

Re : One Phosphate Ester hydraulic fluid sample submitted on March 18,94 recycled from the used oil holding tank on Mar 17,1994., P.O. #PSM99002.

Tests	ASTM Method	G.M.. Spec.	Test Results
1. Flash Point	D92	425°F min	485
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.200
4. Viscosity, SUS @ 100°F	D88	200 min	211
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	* 0.15
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

* sample from recycled truck unit - 0.15
* Sample from used oil tank before recycling - 0.52

Member of ASTM
JS:js

Approved By
James Szeto,B.Sc.
Chief chemist

162

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage

Petro Laboratories Inc.

140 Advance Blvd., Unit 8, Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Date: March 22,1994

Lab no.: 2146

P.O. no.: PSM 99020

Attention: Mr. Al Corrion

Re : One Phosphate Ester hydraulic fluid sample submitted on March 18,94 recycled from the used oil holding tank on Mar 17,1994., P.O. #PSM99002.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	485
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.200
4. Viscosity, SUS @ 100°F	D88	200 min	211
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	* 0.15
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	3
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

* sample from recycled truck unit - 0.15
* Sample from used oil tank before recycling - 0.52

Member of ASTM
JS:js

Approved By
James Szeto,B.Sc.
Chief chemist

804163

All tests performed by Petro Laboratories will be conducted in accordance with the ASTM standards and strict Federal Government technical standards, but neither it nor its employees shall be responsible for any loss or damage resulted directly or indirectly from any default, error or omission.

RECEIVED
Subject to Weight & Count
SAGINAW GREY IRON PLANT
MAY 12 1994

Reclamation Services

T. J. Cooper

SERVICE RECEIPT

15035

TO: Central Foundry, Div GM.,
1629 N. Washington Ave.,
Saginaw, MI
48605

DATE: May 12 1994

P.O.#: PSM99002

DESCRIPTION

ITEM: RECLAIM 021944

RECLAIMED 1820 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

ITEM: RECLAIM #1.

RECLAIMED 1820 US GALLONS OF PHOSPHATE ESTER TO ACCEPTABLE STANDARDS.

METER SETTING: End: 465 8090 Start 465 1200 Total 6890

SITE LEFT CLEAN & ORDERLY.

Customer:

Per: Oil Recycling Technician

David Ork

ALL WORK COMPLETE & ACCEPTED:

4164

140 ADVANCE BLVD., UNIT 7, BRAMPTON, ONTARIO L6T 4J4 TEL: (416) 458-0990 FAX: (416) 458-1559 U.S. TEL: (517) 754-2200

OK
FILE

Petro Laboratories Inc.

140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Attention: Mr. Al Corrion

Date: May 30,1994

Lab no.: 2287

P.O. no.: PSM 99020

Re : One Phosphate Ester hydraulic fluid sample submitted on May 30,94 recycled from the used oil holding tank on May 25,1994., P.O. #PSM99002.

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	210
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	* 0.20
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	6
10. Sodium, in ppm	by AA	100 ppm max	<1
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

* Acid no. on Sample from recycling truck unit after double pass through activated aluminium - 0.20
* Acid no. on Sample from used oil holding tank before recycling - 0.80

Member of ASTM
JS:js

Approved By
James Szeto,B.Sc.
Chief chemist

804165

Petro Laboratories Inc.

140 Advance Blvd., Unit 8. Brampton, Ontario L6T 4J4 Tel: (905) 458-0989 Fax: (905) 458-1559

Central Foundry Division- G.M.C.,
Saginaw Grey Iron Plant,
1629 N. Washington Avenue, Box 5073,
Saginaw, MI 48605-5073

Attention: Mr. Al Corrion

Date: June 27,1994

Lab no.: 2346

P.O. no.: PSM 99020

Re : One Phosphate Ester hydraulic fluid sample submitted on June 24,94 recycled from the used oil holding tank on June 21,1994., P.O. #PSM99002

Tests	ASTM Method	G.M. Spec.	Test Results
1. Flash Point	D92	425°F min	480
2. Fire Point	D92	600°F min	>600°F
3. Specific Gravity @60°F	D1298	1.1421	1.115
4. Viscosity, SUS @ 100°F	D88	200 min	215
5. % Water	D96	0.10% max	0.00
6. % Sediment	D96	0.03% max	0.00
7. Total Acid no. mg KOH/g	D974	0.15	0.15
8. PCB content	EPA	<1 ppm	<1 ppm
9. Calcium, in ppm	by AA	50 ppm max	6
10. Sodium, in ppm	by AA	100 ppm max	3
11. Mineral oil % by volume	Methanol Split	1% Max	0.0

Member of ASTM

JS:js

Approved By

James Szeto,B.Sc.
Chief chemist

4166

Appendix 9.11
Available Laboratory Analytical Data
#8 Mold Line PCB release

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

ANALYTICAL DIVISION

Laboratory Analysis Report

Client: NAO DISB Powertrain Casting Operations

Attn: Ray Ilkka

Project: 300534

Sample(s): MW-1, MW-2, STAGEIIEFF, STAGEIINF and STAGEIIINF

Sample Type(s): Liquid

Analysis Performed: Organics

Date Sample Received: April 14, 1995

Date Order Received: April 14, 1995

Joblink(s): 617977

This report is "PROPRIETARY AND CONFIDENTIAL" and delivered to, and intended for the exclusive use of the above named client only. OHM Remediation Services Corp., Analytical Division, assumes no responsibility or liability for the reliance hereon or use hereof by anyone other than the above named client.

Reviewed and Approved by: *Thomas E. Gran, Ph.D., Vice President*

Date: *April 27, 1995*

16406 U.S. Route 224 East ▪ P.O. Box 551 ▪ Findlay, OH 45839-0551 ▪ 419-423-3526

PROJECT NARRATIVE

The following items relate to the samples and analytical data contained in this report.

- Note any comments at the bottom of the tables in Appendix B and Appendix C.

- OHM Analytical Division (OHMAD) will retain samples for a maximum of thirty (30) days after completion of the analysis. Samples will be held for a longer period of time, if appropriate arrangements are made in advance. A nominal disposal charge of $5.00/ sample will be imposed for unreturned samples.

APPENDIX A

DATA SUMMARY REPORT

DATA SUMMARY REPORT

DATE: 04/26/95

Company: NAO DISB POWERTRAIN CASTING OPER

PAGE: 1

Parameters	Units	MW-1	MW-2	STAGE1INF	STAGE11INF	STAGE11EFF
Sample Point ID:		MW-1	MW-2	STAGE1INF	STAGE11INF	STAGE11EFF
ASC Sample Number:		JO2321	JO2322	JO2323	JO2324	JO2325
Sample Date:		950413	950413	950413	950413	950413
Facility Code:		300534	300534	300534	300534	300534
riority Pollutant PCB Analysis, GC, (GS13)						
Aroclor 1016	mg/L	<.0001	<.020	<.209	<.0001	<.0002
Aroclor 1221	mg/L	<.0001	<.020	<.209	<.0001	<.0002
Aroclor 1232	mg/L	<.0001	<.020	<.209	<.0001	<.0002
Aroclor 1242	mg/L	<.0001	.076	.459	.0001	<.0002
Aroclor 1248	mg/L	<.0001	<.020	<.209	<.0001	<.0002
Aroclor 1254	mg/L	<.0001	<.020	<.209	<.0001	<.0002
Aroclor 1260	mg/L	<.0001	<.020	<.209	<.0001	<.0002

APPENDIX B

QUANTITATIVE RESULTS

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	MW-1	JO2321

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.0001	ND	P1P50538
Aroclor 1221	ND	.0001	ND	P1P50538
Aroclor 1232	ND	.0001	ND	P1P50538
Aroclor 1242	ND	.0001	ND	P1P50538
Aroclor 1248	ND	.0001	.0001	P1P50538
Aroclor 1254	ND	.0001	ND	P1P50538
Aroclor 1260	ND	.0001	ND	P1P50538

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	MW-2	JO2322

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.020	ND	P1P50538
Aroclor 1221	ND	.020	ND	P1P50538
Aroclor 1232	ND	.020	ND	P1P50538
Aroclor 1242	.076	.020	ND	P1P50538
Aroclor 1248	ND	.020	.0001	P1P50538
Aroclor 1254	ND	.020	ND	P1P50538
Aroclor 1260	ND	.020	ND	P1P50538

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	STAGE1INF	JO2323

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.209	ND	P1P50538
Aroclor 1221	ND	.209	ND	P1P50538
Aroclor 1232	ND	.209	ND	P1P50538
Aroclor 1242	.459	.209	ND	P1P50538
Aroclor 1248	ND	.209	.0001	P1P50538
Aroclor 1254	ND	.209	ND	P1P50538
Aroclor 1260	ND	.209	ND	P1P50538

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	STAGE11INF	JO2324

Compounds	**Sample Results** mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.0001	ND	P1P50538
Aroclor 1221	ND	.0001	ND	P1P50538
Aroclor 1232	ND	.0001	ND	P1P50538
Aroclor 1242	.0001	.0001	ND	P1P50538
Aroclor 1248	ND	.0001	.0001	P1P50538
Aroclor 1254	ND	.0001	ND	P1P50538
Aroclor 1260	ND	.0001	ND	P1P50538

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	STAGE11EFF	JO2325

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.0002	ND	P1P50538
Aroclor 1221	ND	.0002	ND	P1P50538
Aroclor 1232	ND	.0002	ND	P1P50538
Aroclor 1242	ND	.0002	ND	P1P50538
Aroclor 1248	ND	.0002	.0001	P1P50538
Aroclor 1254	ND	.0002	ND	P1P50538
Aroclor 1260	ND	.0002	ND	P1P50538

APPENDIX C

QUALITY ASSURANCE DATA

SUMMARY OF ANALYTICAL METHODOLOGY

Joblink # 617977

	REFERENCE	TITLE
608	EPA-600	Organochlorine Pesticides and PCBs

METHODOLOGY REFERENCES

ASTM	*American Society for Testing and Materials*, 1985 edition.
MCAWW	*Methods for Chemical Analysis of Water and Wastes*, April 1979 and Updated #1 March 1983.
CLP	*USEPA Contract Laboratory Program*, Document #OLMO1.0, updates December 1990 #OLMO1.1 and February 1991 #OLMO1.1.1.
EPA-500	*USEPA Methods for the Determination of Organic Compounds in Drinking Water,* EPA-600/4-88/039 December 1988.
EPA-600	*USEPA Test Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater*, EPA-600/4-82-057 July 1982.
NIOSH	*National Institute for Occupational Safety and Health*, 3rd edition, 1984.
SMEWW	*Standard Methods for the Examination of Water and Wastewater*, 17th edition, 1989.
STOA	*Spot Tests In Organic Analysis*, 7th edition, 1966.
SW-846	*Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, 3rd edition, September 1986 and Update #1 July 1992.
(1)	This method was modified to incorporate the use of Boron Trifluoride (BF3) as the derivatizing reagent according to Method 6640 in *SMEWW*, 17th edition, 1989.
Title 22	*Waste Extraction Test*,. Title 22, Section 66261.126 Appendix 2 of the California Administrative Code, May 1991.

Laboratory Certifications

State	Agency	Certification #
Alabama	ADEM	40830
California	CADOH	1178
Colorado	CODOH	OH113
Connecticut	CDPH & AS	PH-0154
Delaware	DEHSS	OH113
Kansas	KSDHE	E-202 & E-1173
Louisiana	LADOHH	92-10
Maryland	MDDHMH	210
Massachusetts	MADEP	M-OH113
New Jersey	NJDEPE	74603
New York	NYDOH	10712
North Carolina	NCDEM	392
Ohio	OHEPA	OH113
Oklahoma	OKDEQ	9216
Pennsylvania	PADER	68-450
South Carolina	SCDEHNR	92002
Tennessee	TNDOH/TNDEC	2978
Virginia	VADGS	00011
Washington	WADOE	C154
Wisconsin	WIDNR	999037160

Validated by:

- o US Army Corps of Engineers ..... Chemical Analysis in Various Matrices

Approvals:

- o Envirosafe ..... Waste Characterization Analysis
- o USDA ..... Permit for Importing Soils
- o Florida DEP ..... Quality Assurance Plan #930034G
- o Naval Facilities Engineering Service Center ..... Chemical Analysis in Various Matrices

REPORT KEY

mg/kg	=	milligram per kilogram (ppm)
Mg/m^3	=	milligram per cubic meter
ug/kg	=	microgram per kilogram (ppb)
mg/L	=	milligram per liter (ppm)
ug/L	=	microgram per liter (ppb)
mg/W	=	milligram per wipe
ug/W	=	microgram per wipe
mg/SMP	=	milligram per sample
ug/SMP	=	microgram per sample (Tedlar Bag)
ug/smp	=	microgram per sample
um/cm	=	microMho per centimeter
pCi/l	=	picocurie per liter
gm/cc	=	grams per cubic centimeter
ppm	=	parts per million
ppb	=	parts per billion
ND	=	Not detected at or above stated detection limit
<	=	less than
>	=	greater than
%	=	percent
BTU/lb	=	British Thermal Units per pound
Deg. C	=	Degrees Celsius
n/a	=	not applicable
Unk	=	unknown
std	=	result is relative to standard pH units
CV	=	Conventionals
IR	=	Infrared Spectrophotometric
GC	=	Gas Chromatograph Instrument
GC/MS	=	Gas Chromatography/Mass Spectrometer Instrument
GRO	=	Gasoline Range Organics
DRO	=	Diesel Range Organics
PCB	=	Polychlorinated Biphenyls (PCBs)
EP TOX	=	Extraction Procedure Toxicity
TCLP	=	Toxicity Characteristic Leaching Procedure
RCRA	=	Resource Conservation and Recovery Act
SOW	=	Statement of Work

Quality Assurance Data

Priority Pollutant PCB Analysis, GC, (GS13)

Compounds	Blank Results mg/L	Blank Spike Recov	Unspiked Sample Results mg/L	Matrix Spike Recov	Relative Percent Diff	Batch Numbe
Aroclor 1248	.0001	61	-	-	-	P1P50538

There was insufficient sample available to complete our standard matrix spike and matrix spike duplicate analyses.

QUALITY ASSURANCE DATA
SURROGATE SUMMARY REPORT

SURROGATE ID	F048	F096	# OUT
QC BATCH: P1P50538 Aqueous (Pesticide compounds by GC)			
SAMPLE ID			
BLANK	71	63	0
BLANK SPIKE	65	59	0
MW-1	41	59	0
MW-2	0 D	0 D	0
STAGE11EFF	38	64	0
STAGE11INF	69	63	0
STAGE1INF	0 D	0 D	0
QC LIMITS	(30-130)	(30-130)	

SURROGATE ID

F048 = Decachlorobiphenyl (PCB)
F096 = 2,4,5,6-TCMX (PCB)

* Values outside of method quality control limits
D Sample was diluted, however, some surrogates may be reported if results were observed.

It is ASC's laboratory policy to allow one surrogate per sample fraction (acid, base-neutral or pesticide) to exceed the stated QC limits. This policy is based upon the USEPA SOW for the Contract Laboratory Program (CLP).

APPENDIX D

CHAIN-OF-CUSTODY RECORD(S)

02/19/88 Sediment/Soil Sampling

GR-7 (?)

MICHIGAN DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL LABORATORY

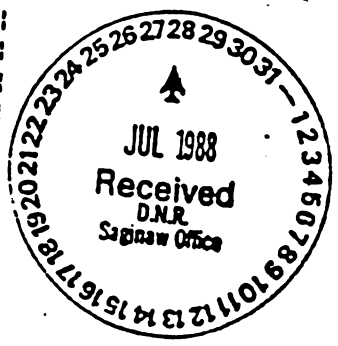
REPORT Environmental Response Div.
TO 411-J East Genesee
Saginaw, MI 48607

ATTEN RHONDA KLANN

LABORATORY WORK ORDER # 88-02-075
WORK ID G.M. GREY IRON
P.O. # 90175 COST $ 6950.00
RECEIVED 02/19/88 CLIENT ER SAGINAW
REPORTED _____ NUMBER OF SAMPLES 11
LAB CONTACT JP BN MATRIX SED/SOIL

TEST / UNITS	8	11	12	14
Cadmium in Sediment ug/kg (dry)	K 2	K 2	K 2	K 2
Cobalt in Sediment ug/kg (dry)	5.6	K 5	K 5	K 5
Chromium in Sediment ug/kg (dry)	33	21	26	19
Copper in Sediment ug/kg (dry)	29	17	17	13
Iron in Sediment ug/kg (dry)	9230	8690	10200	8500
Lithium in Sediment ug/kg (dry)	13	12	15	11
Manganese in Sediment ug/kg (dry)	220	210	230	200
Nickel in Sediment ug/kg (dry)	13	12	17	13
Oil & Grease Soil/Sediment ug/Kg	300	4800	27	k20
[illegible] in Sediment ug/kg (dry)	K 5	K 5	K 5	K 5
Zinc in Sediment ug/kg (dry)	38	23	26	21

TEST / UNITS	15	16	17	23
Cadmium in Sediment ug/kg (dry)	K 2	K 2	K 2	K 2
Cobalt in Sediment ug/kg (dry)	K 5	K 5	6.1	K 5
Chromium in Sediment ug/kg (dry)	36	22	30	36
Copper in Sediment ug/kg (dry)	16	14	14	15
Iron in Sediment ug/kg (dry)	10400	6770	10900	8740
Lithium in Sediment ug/kg (dry)	15	5.6	14	13



REPORTED BY [illegible] 2/27/88

TEST UNITS	15	16	17	23
Manganese in Sediment ug/kg (dry)	260	140	270	230
Nickel in Sediment ug/kg (dry)	19	8.1	16	15
Oil & Grease Soil/Sediment ug/Kg	k20 ug/kg	k20	k20	570
Lead in Sediment ug/kg (dry)	K 5	9.1	K 5	K 5
Zinc in Sediment ug/kg (dry)	26	17	25	24

TEST UNITS	1	2	26
Calcium in Sediment ug/kg (dry)	79000	6500	56500
Cadmium in Sediment ug/kg (dry)	K 2	K 2	K 2
Cobalt in Sediment ug/kg (dry)	K 5	9.2	5.1
Chromium in Sediment ug/kg (dry)	13	13	40
Copper in Sediment ug/kg (dry)	12	2.6	12
Iron in Sediment ug/kg (dry)	9400	2420	9190
Potassium in Sediment ug/kg (dry)	1050	160	945
Lithium in Sediment ug/kg (dry)	11	2.0	10
Magnesium in Sediment ug/kg (dry)	27000	1220	20000
Manganese in Sediment ug/kg (dry)	230	49	190
Sodium in Sediment ug/kg (dry)	200	150	300
Nickel in Sediment ug/kg (dry)	15	K 5	15
Oil & Grease Soil/Sediment ug/Kg	30	50	9900
Lead in Sediment ug/kg (dry)	K 5	16	K 5
Zinc in Sediment ug/kg (dry)	22	59.7	19

Report prepared by: _____

SAMPLE ID 1 FRACTION 09A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HQ
ANALYZED 07/06/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	390	BK	55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Diaethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	ND		55
206-44-0	Fluoranthene	ND		55
92-87-5	# Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	# 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	3900	BK	110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
= Value encountered, reported semi-quantitatively.

SAMPLE ID 1 FRACTION 09A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		330
106-46-7	1,4-Dichlorobenzene	ND		330
95-50-1	1,2-Dichlorobenzene	ND		330
67-72-1	Hexachloroethane	ND		55
120-82_1	1,2,4-Trichlorobenzene	ND		330
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		330
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		330
11097-69-1	Aroclor 1254 (PCB)	ND		330
11096-82-5	Aroclor 1260 (PCB)	ND		330
12674-11-1	*Aroclor 1016 (PCB)	ND		330
11104-28-2	*Aroclor 1221 (PCB)	ND		330
11141-16-5	*Aroclor 1232 (PCB)	ND		330
12672-29-6	*Aroclor 1248 (PCB)	ND		330
- -	*Aroclor 1262 (PCB)	ND		330
11100-14-4	*Aroclor 1268 (PCB)	ND		330
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		330

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 2 FRACTION 10A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected 02/16/88 Category

ANALYST HO
ANALYZED 07/06/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	190	BK	55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	310		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Dimethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	53		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	75		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	420		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	100		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
[illegible]	Indeno (1,2,3-c,d) pyrene	ND		280
[illegible]	Dibenzo (a,h) anthracene	ND		280
[illegible]	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 2 FRACTION 10C TEST CODE S SC 2 NAME Scan 2 Soil/Sediment
Date & Time Collected 02/16/88 Category

ANALYST KAJIYA
ANALYZED 03/04/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
71-43-2	Benzene	ND		5.4
108-88-3	Toluene	ND		5.4
100-41-4	Ethylbenzene	ND		5.4
108-38-3	Xylene isomers	ND		5.4

COMMENTS WATER VOLUME ESTIMATED

ND = not detected at the specified detection limit.

SAMPLE ID 2 FRACTION 10A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected 02/16/88 Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82-1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		550
11097-69-1	Aroclor 1254 (PCB)	ND		550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 2 FRACTION 10B TEST CODE S SC 1 NAME Scan 1 Soil/Sediment
Date & Time Collected 02/16/88 Category

ANALYST KAJIYA
ANALYZED 03/04/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
75-35-4	1,1-Dichloroethene	ND		5.4
75-09-2	*Methylene chloride	ND		27
156-60-5	trans-1,2-Dichloroethene	ND		5.4
75-34-3	*1,1-Dichloroethane	ND		5.4
156-59-2	cis-1,2-Dichloroethene	ND		5.4
67-66-3	*Chloroform	ND		5.4
71-55-6	*1,1,1-Trichloroethane	ND		5.4
56-23-5	*Carbon tetrachloride	ND		5.4
107-06-2	*1,2-Dichloroethane	ND		5.4
79-01-6	Trichloroethene	ND		5.4
78-87-5	*1,2-Dichloropropane	ND		5.4
10061-01-5	cis-1,3-Dichloropropene	ND		5.4
10061-02-6	trans-1,3-Dichloropropene	ND		5.4
79-00-5	*1,1,2-Trichloroethane	ND		5.4
127-18-4	Tetrachloroethene	ND		5.4
108-90-7	Chlorobenzene	ND		27
79-34-5	*1,1,2,2-Tetrachloroethane	ND		5.4

COMMENTS WATER VOLUME ESTIMATED

ND = not detected at the specified detection limit.
* Compound identity not confirmed by second independent technique.

SAMPLE ID 23 FRACTION OBA TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82_1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	37000	J	550
11097-69-1	Aroclor 1254 (PCB)	6300	J	550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS TER-PHENYL AR5432 MAY BE PRESENT NOT QUANTIFIED

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 8 FRACTION 01A TEST CODE S BN NAME Base Neutral-Soil/Sediment.
Date & Time Collected not specified Category

ANALYST MO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	ND		55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Dimethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	ND		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Below encountered, reported semi-quantitatively.

SAMPLE ID 8 FRACTION 01A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 04/06/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		13000
106-46-7	1,4-Dichlorobenzene	ND		13000
95-50-1	1,2-Dichlorobenzene	ND		13000
67-72-1	Hexachloroethane	ND		1300
120-82-1	1,2,4-Trichlorobenzene	ND		13000
87-68-3	Hexachlorobutadiene	ND		1300
91-58-7	2-Chloronaphthalene	ND		13000
118-74-1	Hexachlorobenzene	ND		1300
58-89-9	g-BHC (lindane)	ND		1300
82-68-8	Pentachloronitrobenzene	ND		1300
76-44-8	Heptachlor	ND		1300
309-00-2	Aldrin	ND		1300
1024-57-3	Heptachlor epoxide	ND		1300
5103-74-2	g-Chlordane	ND		1300
5103-71-9	a-Chlordane	ND		1300
72-55-9	4,4'-DDE	ND		1300
72-54-8	4,4'-DDD	ND		1300
789-02-6	1,4'-DDT	ND		1300
50-29-3	4,4'-DDT	ND		1300
79-34-5	Hexabromobenzene	ND		1300
72-43-2	Methoxychlor	ND		1300
2385-85-5	Mirex	ND		1300
53469-21-9	Aroclor 1242 (PCB)	ND		13000
11097-69-1	Aroclor 1254 (PCB)	ND		13000
11096-82-5	Aroclor 1260 (PCB)	ND		13000
12674-11-1	*Aroclor 1016 (PCB)	ND		13000
11104-28-2	*Aroclor 1221 (PCB)	ND		13000
11141-16-5	*Aroclor 1232 (PCB)	ND		13000
12672-29-6	*Aroclor 1248 (PCB)	ND		13000
- -	*Aroclor 1262 (PCB)	ND		13000
11100-14-4	*Aroclor 1268 (PCB)	ND		13000
37324-23-5	*BP-6 (PBB)	ND		1300
8001-35-2	*Toxaphene	ND		13000

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 11 FRACTION 02A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	250	BK	55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Dimethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	ND		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Below encountered, reported semi-quantitative.

SAMPLE ID 11 FRACTION 02A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 04/06/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82_1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	100000	L	550
11097-69-1	Aroclor 1254 (PCB)	25000	L	
11096-82-5	Aroclor 1260 (PCB)	ND		
12674-11-1	*Aroclor 1016 (PCB)	ND		
11104-28-2	*Aroclor 1221 (PCB)	ND		
11141-16-5	*Aroclor 1232 (PCB)	ND		
12672-29-6	*Aroclor 1248 (PCB)	ND		
- -	*Aroclor [illegible]262 (PCB)	ND		
11100-14-4	*Aroclor [illegible]268 (PCB)	ND		
37324-23-5	*BP-6 (PBB)	ND		
8001-35-2	*Toxaphene	ND		

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 12 FRACTION 03A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1 UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	ND		55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Dimethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	ND		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Below acceptable recovery limits; reported semi-quantitatively.

SAMPLE ID 12 FRACTION 03A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 03/03/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82-1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		550
11097-69-1	Aroclor 1254 (PCB)	ND		550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 14 FRACTION 04A TEST CODE S_BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		120
541-73-1	1,3-Dichlorobenzene	ND		120
106-46-7	1,4-Dichlorobenzene	ND		120
95-50-1	1,2-Dichlorobenzene	ND		120
108-60-1	bis(2-Chloroisopropyl) ether	ND		300
621-64-7	N-Nitroso-di-n-propyl amine	ND		300
108-70-3	Hexachloroethane	ND		300
98-95-3	Nitrobenzene	ND		120
78-59-1	Isophorone	ND		60
111-91-1	bis(2-Chloroethoxy) methane	ND		120
120-82-1	1,2,4-Trichlorobenzene	ND		120
91-20-3	Naphthalene	ND		60
87-68-3	Hexachlorobutadiene	ND		300
91-58-7	2-Chloronaphthalene	ND		120
131-11-3	Dimethyl phthalate	ND		120
208-96-8	Acenaphthylene	ND		60
606-20-2	2,6-Dinitrotoluene	ND		300
83-32-9	Acenaphthene	ND		120
121-14-2	2,4-Dinitrotoluene	ND		300
86-73-7	Fluorene	ND		120
84-66-2	Diethyl phthalate	ND		120
7005-72-3	4-Chlorodiphenyl ether	ND		300
86-30-6	N-Nitrosodiphenyl amine	ND		120
122-66-7	1,2-Diphenylhydrazine	ND		120
101-55-3	4-Bromodiphenyl ether	ND		300
118-74-1	Hexachlorobenzene	ND		300
85-01-8	Phenanthrene	75		60
120-12-7	Anthracene	72		60
84-74-2	Di-n-butyl phthalate	ND		60
206-44-0	Fluoranthene	130		60
92-87-5	* Benzidine	ND		900
129-00-0	Pyrene	60		60
85-68-7	Butyl benzyl phthalate	ND		120
56-55-3	Benzo (a) anthracene	ND		120
91-94-1	* 3,3'-Dichlorobenzidine	ND		600
218-01-9	Chrysene	ND		120
117-81-7	bis(2-ethylhexyl) phthalate	ND		120
117-84-0	Di-n-octyl phthalate	ND		120
205-99-2	Benzo (b) fluoranthene	ND		120
207-08-9	Benzo (k) fluoranthene	ND		120
50-32-8	Benzo (a) pyrene	ND		120
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		300
53-70-3	Dibenz (a,h) anthracene	ND		300
191-24-2	Benzo (g,h,i) perylene	ND		300

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Below encountered, reported semi-quantitatively.

SAMPLE ID 14 FRACTION 04A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 03/03/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		330
106-46-7	1,4-Dichlorobenzene	ND		330
95-50-1	1,2-Dichlorobenzene	ND		330
67-72-1	Hexachloroethane	ND		55
120-82-1	1,2,4-Trichlorobenzene	ND		330
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		330
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		330
11097-69-1	Aroclor 1254 (PCB)	ND		330
11096-82-5	Aroclor 1260 (PCB)	ND		330
12674-11-1	*Aroclor 1016 (PCB)	ND		330
11104-28-2	*Aroclor 1221 (PCB)	ND		330
11141-16-5	*Aroclor 1232 (PCB)	ND		330
12672-29-6	*Aroclor 1248 (PCB)	ND		330
- -	*Aroclor 1262 (PCB)	ND		330
11100-14-4	*Aroclor 1268 (PCB)	ND		330
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		330

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 15 FRACTION OSA TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	ND		55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Diethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	ND		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	8300	BK	110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Values encountered, reported semi-quantitatively.

SAMPLE ID 15 FRACTION 05A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82_1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		550
11097-69-1	Aroclor 1254 (PCB)	ND		550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 16 FRACTION Q6A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		120
541-73-1	1,3-Dichlorobenzene	ND		120
106-46-7	1,4-Dichlorobenzene	ND		120
95-50-1	1,2-Dichlorobenzene	ND		120
108-60-1	bis(2-Chloroisopropyl) ether	ND		300
621-64-7	N-Nitroso-di-n-propyl amine	ND		300
108-70-3	Hexachloroethane	ND		300
98-95-3	Nitrobenzene	ND		120
78-59-1	Isophorone	ND		60
111-91-1	bis(2-Chloroethoxy) methane	ND		120
120-82-1	1,2,4-Trichlorobenzene	ND		120
91-20-3	Naphthalene	120		60
87-68-3	Hexachlorobutadiene	ND		300
91-58-7	2-Chloronaphthalene	ND		120
131-11-3	Dimethyl phthalate	ND		120
208-96-8	Acenaphthylene	ND		60
606-20-2	2,6-Dinitrotoluene	ND		300
83-32-9	Acenaphthene	120		120
121-14-2	2,4-Dinitrotoluene	ND		300
86-73-7	Fluorene	140		120
84-66-2	Diethyl phthalate	ND		120
7005-72-3	4-Chlorodiphenyl ether	ND		300
86-30-6	N-Nitrosodiphenyl amine	ND		120
122-66-7	1,2-Diphenylhydrazine	ND		120
101-55-3	4-Bromodiphenyl ether	ND		300
118-74-1	Hexachlorobenzene	ND		300
85-01-8	Phenanthrene	740		60
120-12-7	Anthracene	240		60
84-74-2	Di-n-butyl pthtalate	440		60
206-44-0	Fluoranthene	1200		60
92-87-5	* Benzidine	ND		900
129-00-0	Pyrene	850		60
85-68-7	Butyl benzyl phthalate	ND		120
56-55-3	Benzo (a) anthracene	710		120
91-94-1	* 3,3'-Dichlorobenzidine	ND		600
218-01-9	Chrysene	740		120
117-81-7	bis(2-ethylhexyl) phthalate	ND		120
117-84-0	Di-n-octyl phthalate	ND		120
205-99-2	Benzo (b) fluoranthene	280		120
207-08-9	Benzo (k) fluoranthene	ND		120
50-32-8	Benzo (a) pyrene	380		120
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		300
53-70-3	Dibenzo (a,h) anthracene	ND		300
191-24-2	Benzo (g,h,i) perylene	ND		300

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 16 FRACTION 06A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82-1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		550
11097-69-1	Aroclor 1254 (PCB)	ND		550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS RUN THROUGH GPC TWICE THEREFORE CODE ACC

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 17 FRACTION 07A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1 UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	ND		55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Diethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl pthtalate	88		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	ND		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Behlos encountered, reported semi-quantitative.

SAMPLE ID 17 FRACTION 07A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/13/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		550
106-46-7	1,4-Dichlorobenzene	ND		550
95-50-1	1,2-Dichlorobenzene	ND		550
67-72-1	Hexachloroethane	ND		55
120-82-1	1,2,4-Trichlorobenzene	ND		550
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		550
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		550
11097-69-1	Aroclor 1254 (PCB)	ND		550
11096-82-5	Aroclor 1260 (PCB)	ND		550
12674-11-1	*Aroclor 1016 (PCB)	ND		550
11104-28-2	*Aroclor 1221 (PCB)	ND		550
11141-16-5	*Aroclor 1232 (PCB)	ND		550
12672-29-6	*Aroclor 1248 (PCB)	ND		550
- -	*Aroclor 1262 (PCB)	ND		550
11100-14-4	*Aroclor 1268 (PCB)	ND		550
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		550

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

SAMPLE ID 23 FRACTION OBA TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 06/30/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		110
541-73-1	1,3-Dichlorobenzene	ND		110
106-46-7	1,4-Dichlorobenzene	ND		110
95-50-1	1,2-Dichlorobenzene	ND		110
108-60-1	bis(2-Chloroisopropyl) ether	ND		280
621-64-7	N-Nitroso-di-n-propyl amine	ND		280
108-70-3	Hexachloroethane	ND		280
98-95-3	Nitrobenzene	ND		110
78-59-1	Isophorone	ND		55
111-91-1	bis(2-Chloroethoxy) methane	ND		110
120-82-1	1,2,4-Trichlorobenzene	ND		110
91-20-3	Naphthalene	ND		55
87-68-3	Hexachlorobutadiene	ND		280
91-58-7	2-Chloronaphthalene	ND		110
131-11-3	Dimethyl phthalate	ND		110
208-96-8	Acenaphthylene	ND		55
606-20-2	2,6-Dinitrotoluene	ND		280
83-32-9	Acenaphthene	ND		110
121-14-2	2,4-Dinitrotoluene	ND		280
86-73-7	Fluorene	ND		110
84-66-2	Diethyl phthalate	ND		110
7005-72-3	4-Chlorodiphenyl ether	ND		280
86-30-6	N-Nitrosodiphenyl amine	ND		110
122-66-7	1,2-Diphenylhydrazine	ND		110
101-55-3	4-Bromodiphenyl ether	ND		280
118-74-1	Hexachlorobenzene	ND		280
85-01-8	Phenanthrene	ND		55
120-12-7	Anthracene	ND		55
84-74-2	Di-n-butyl phthalate	140		55
206-44-0	Fluoranthene	ND		55
92-87-5	* Benzidine	ND		830
129-00-0	Pyrene	ND		55
85-68-7	Butyl benzyl phthalate	ND		110
56-55-3	Benzo (a) anthracene	ND		110
91-94-1	* 3,3'-Dichlorobenzidine	ND		550
218-01-9	Chrysene	ND		110
117-81-7	bis(2-ethylhexyl) phthalate	ND		110
117-84-0	Di-n-octyl phthalate	220		110
205-99-2	Benzo (b) fluoranthene	ND		110
207-08-9	Benzo (k) fluoranthene	ND		110
50-32-8	Benzo (a) pyrene	ND		110
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		280
53-70-3	Dibenzo (a,h) anthracene	ND		280
191-24-2	Benzo (g,h,i) perylene	ND		280

COMMENTS UnID PEAKS

ND = not detected at the specified detection limit.
* Below encountered, reported semi-quantitatively

SAMPLE ID 26 FRACTION 11A TEST CODE S BN NAME Base Neutral-Soil/Sediment
Date & Time Collected not specified Category

ANALYST HO
ANALYZED 07/06/88
DILUTION 1

UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
111-44-4	bis(2-Chloroethyl) ether	ND		120
541-73-1	1,3-Dichlorobenzene	ND		120
106-46-7	1,4-Dichlorobenzene	ND		120
95-50-1	1,2-Dichlorobenzene	ND		120
108-60-1	bis(2-Chloroisopropyl) ether	ND		300
821-64-7	N-Nitroso-di-n-propyl amine	ND		300
108-70-3	Hexachloroethane	ND		300
98-95-3	Nitrobenzene	ND		120
78-59-1	Isophorone	ND		60
111-91-1	bis(2-Chloroethoxy) methane	ND		120
120-82-1	1,2,4-Trichlorobenzene	ND		120
91-20-3	Naphthalene	ND		60
87-68-3	Hexachlorobutadiene	ND		300
91-58-7	2-Chloronaphthalene	ND		120
131-11-3	Diethyl phthalate	ND		120
208-96-8	Acenaphthylene	ND		60
606-20-2	2,6-Dinitrotoluene	ND		300
83-32-9	Acenaphthene	ND		120
121-14-2	2,4-Dinitrotoluene	ND		300
86-73-7	Fluorene	ND		120
84-66-2	Diethyl phthalate	ND		120
7005-72-3	4-Chlorodiphenyl ether	ND		300
86-30-6	N-Nitrosodiphenyl amine	ND		120
122-66-7	1,2-Diphenylhydrazine	ND		120
101-55-3	4-Bromodiphenyl ether	ND		300
118-74-1	Hexachlorobenzene	ND		300
85-01-8	Phenanthrene	ND		60
120-12-7	Anthracene	ND		60
84-74-2	Di-n-butyl pthtalate	ND		60
206-44-0	Fluoranthene	ND		60
92-87-5	* Benzidine	ND		900
129-00-0	Pyrene	ND		60
85-68-7	Butyl benzyl phthalate	ND		120
56-55-3	Benzo (a) anthracene	ND		120
91-94-1	* 3,3'-Dichlorobenzidine	ND		600
218-01-9	Chrysene	ND		120
117-81-7	bis(2-ethylhexyl) phthalate	ND		120
117-84-0	Di-n-octyl phthalate	ND		120
205-99-2	Benzo (b) fluoranthene	ND		120
207-08-9	Benzo (k) fluoranthene	ND		120
50-32-8	Benzo (a) pyrene	ND		120
193-39-5	Indeno (1,2,3-c,d) pyrene	ND		300
53-70-3	Dibenzo (a,h) anthracene	ND		300
191-24-2	Benzo (g,h,i) perylene	ND		300

COMMENTS

ND = not detected at the specified detection limit.
* Solids encountered, reported semi-quantitatively.

SAMPLE ID 26 FRACTION 11A TEST CODE S SC 3 NAME Scan 3 Soil/Sediment
Date & Time Collected not specified Category

ANALYST WORDEN
ANALYZED 05/09/88
DILUTION 1 UNITS ug/Kg ppb

CAS#	COMPOUND	RESULT	REMARK	DETECTION LIMIT
541-73-1	1,3-Dichlorobenzene	ND		330
106-46-7	1,4-Dichlorobenzene	ND		330
95-50-1	1,2-Dichlorobenzene	ND		330
67-72-1	Hexachloroethane	ND		55
120-82_1	1,2,4-Trichlorobenzene	ND		330
87-68-3	Hexachlorobutadiene	ND		55
91-58-7	2-Chloronaphthalene	ND		330
118-74-1	Hexachlorobenzene	ND		55
58-89-9	g-BHC (lindane)	ND		55
82-68-8	Pentachloronitrobenzene	ND		55
76-44-8	Heptachlor	ND		55
309-00-2	Aldrin	ND		55
1024-57-3	Heptachlor epoxide	ND		55
5103-74-2	g-Chlordane	ND		55
5103-71-9	a-Chlordane	ND		55
72-55-9	4,4'-DDE	ND		55
72-54-8	4,4'-DDD	ND		55
789-02-6	1,4'-DDT	ND		55
50-29-3	4,4'-DDT	ND		55
79-34-5	Hexabromobenzene	ND		55
72-43-2	Methoxychlor	ND		55
2385-85-5	Mirex	ND		55
53469-21-9	Aroclor 1242 (PCB)	ND		330
11097-69-1	Aroclor 1254 (PCB)	ND		330
11096-82-5	Aroclor 1260 (PCB)	ND		330
12674-11-1	*Aroclor 1016 (PCB)	ND		330
11104-28-2	*Aroclor 1221 (PCB)	ND		330
11141-16-5	*Aroclor 1232 (PCB)	ND		330
12672-29-6	*Aroclor 1248 (PCB)	ND		330
- -	*Aroclor 1262 (PCB)	ND		330
11100-14-4	*Aroclor 1268 (PCB)	ND		330
37324-23-5	*BP-6 (PBB)	ND		55
8001-35-2	*Toxaphene	ND		330

COMMENTS

ND = not detected at the specified detection limit.
* Seldom encountered, reported semi-quantitatively.

February 1989 Sampling Plan
Determination of Extent of PCB Contamination

USEPA FOIA REQUEST
RIN 768-94
FEB. 14, 1994

11 116

Central Foundry Division
General Motors Corporation
Saginaw Grey Iron Plant
1629 N. Washington Ave.
Saginaw, Michigan 48605-5073

October 4, 1989

Receipt No. P 066 987 688
CERTIFIED MAIL
Return Receipt Requested

Ms. Rhonda Klann
Environmental Quality Analyst
Environmental Response Division
Michigan Department of Natural Resources
411-J East Genesee
Saginaw, Michigan 48607

Re: PCB Cleanup Basement, Saginaw Grey Iron Plant

Dear Ms. Klann:

Sampling has been completed in accordance with the sampling plan submitted to you in February, 1989. The purpose of the sampling plan was to determine the extent of the PCB contamination around the three remaining hot spots, points #8, #9, and #19, in the subject cleanup area. The actual sampling was four times more extensive and time consuming than envisioned in our original plan. The original nine borings became 26, and the samples increased from 60 to over 200 (see attached drawing showing location and results of sampling).

From the sampling, it is estimated that 500 yards of PCB contaminated soil remain at the site. Further excavation of this area would require extensive shoring and sheet piling to protect the building foundation.

The remaining contamination is contained in an extensive clay structure. Therefore, we propose to backfill the area and install an 8" thick concrete cap over the area. Two (2) purge wells will be installed at points #8 and #19 to remove any ground water, if present. Two groundwater monitoring wells will be installed down gradient from the area to verify that PCB's are not migrating from the area. One groundwater monitoring well will be installed near the North basement wall, North of point #8. The second monitoring well will be installed near the East basement wall, East of point #19. Both wells will be installed to a depth of 20 feet.

Should you have any comments regarding this plan, please contact us as soon as possible. Installation of the wells and subsequent backfill are scheduled to begin the third week in October, 1989.

If you have any questions, please contact R. Offenborn at 757-1473.

Very truly yours,

OCT

J. S. Toth, Superintendent
Plant Engineering Department

Let's Get It Together
SAFETY BELTS SAVE LIVES

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37399
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	63	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth A Bowman
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37400
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Brian Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37401
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	110	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth A Rossmeier
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37402
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	50	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kevin M. Brannan
Kevin Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37403
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	2.3	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C Rummer
Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37404
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37405
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C. Brannen

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37336
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	420	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37336
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	420	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37337
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	280	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37337
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	280	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37338
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	240	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37338
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	240	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37339
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	44	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therfore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37339
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	44	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therfore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37340
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	73	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37340
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	73	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37341
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	160	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37341
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	160	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37342
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	27.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37343
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	130	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37343
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	130	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37344
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	186.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37345
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	178.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37346
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for others mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37346
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 8-W-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37347
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	47	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37347
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	47	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37348
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	70.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37348
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	70.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37447
PROJECT #: 01073.15
WORK ORDER #: 032089-0107314
REPORT DATE: 04/04/89
COLLECTION DATE: 03/17/89
STATION ID: 9-E-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37452
PROJECT #: 01073.15
WORK ORDER #: 032089-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/17/89
STATION ID: 9-S-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	54.6	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37453
PROJECT #: 01073.15
WORK ORDER #: 032089-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/17/89
STATION ID: 9-S-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	22.4	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37416 REPORT DATE: 03/27/89
PROJECT #: 01073.14 COLLECTION DATE: 03/16/89
WORK ORDER #: 031789-0107314 STATION ID: 9-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	96	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37416
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/16/89
STATION ID: 9-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	96	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37417
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/16/89
STATION ID: 8-N-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	113.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37418
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/16/89
STATION ID: 8-N-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	156.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37419
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/16/89
STATION ID: 8-N-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	13.4	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37420
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/16/89
STATION ID: 8-N-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	2.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37421
PROJECT #: 01073.15
WORK ORDER #: 031789-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/16/89
STATION ID: 8-N-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37391
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	46	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37392
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	33	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37393
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37394
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37395
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	110	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37350
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	200	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37350
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	200	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37351
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	53	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37396
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	98	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37397
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	200	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37398
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	120	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37399
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	63	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37400
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37401
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	110	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37402
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	50	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

SAGINAW GREY IRON

CLIENT: GMC GFD S
AROCLOR - 1242
AROCLOR - 1248
PROJECT #: 01073.14 07314
WORK ORDER #: 031689-01

REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1248	N/A	mg/kg dry wt.
AROCLOR - 1254	2.3	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37404
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37405
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37391
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	46	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C Brunner

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37392
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	33	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C. Dougherty

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37393
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth A Rummer
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37394
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-E-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37395
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	110	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C Rumsey

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37396 REPORT DATE: 03/30/89
PROJECT #: 01073.14 COLLECTION DATE: 03/15/89
WORK ORDER #: 031689-0107314 STATION ID: 8-S-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	98	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37397
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	200	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C Brannon
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD Saginaw Grey Iron
SAMPLE #: 37398
PROJECT #: 01073.14
WORK ORDER #: 031689-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/15/89
STATION ID: 8-S-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	120	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C. Rummer
Arah Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37619
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	118	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37620
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	96.3	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37621
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	280	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37622
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	235	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37623
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	261	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37624
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	192	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37625
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	384	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37626 REPORT DATE: 04/12/89
PROJECT #: 01073.15 COLLECTION DATE: 03/23/89
WORK ORDER #: 032489-0107314 STATION ID: 19-WB-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	286	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37627
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	398	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37628
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	324	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37629
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 04/12/89
COLLECTION DATE: 03/23/89
STATION ID: 19-WB-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	40.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37630
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	47.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37631
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	84.7	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37632
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-8
SAMPLE COLLECTOR: BLL.

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.3	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37633 REPORT DATE: 03/31/89
PROJECT #: 01073.15 COLLECTION DATE: 03/23/89
WORK ORDER #: 032489-0107314 STATION ID: 8-SA-9
SAMPLE COLLECTOR: BLL.

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.3	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37634
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37635 REPORT DATE: 03/31/89
PROJECT #: 01073.15 COLLECTION DATE: 03/23/89
WORK ORDER #: 032489-0107314 STATION ID: 8-SA-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37575
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/06/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	275.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37576
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/06/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	207.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37577
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/05/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	207.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37578
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/05/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	391.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37579
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/05/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	21.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37580
PROJECT #: 01073.15
WORK ORDER #: 032389-0107314
REPORT DATE: 04/05/89
COLLECTION DATE: 03/22/89
STATION ID: 8-WA-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	74.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37542
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-2
SAMPLE COLLECTOR: BLL

PCB ANAYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	161.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37543 REPORT DATE: 04/03/89
PROJECT #: 01073.15 COLLECTION DATE: 03/21/89
WORK ORDER #: 032289-0107314 STATION ID: 19-WA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	93.7	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37544
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	183.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37545
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	265.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37546
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	176.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D. / Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37547
REPORT DATE: 04/03/89
PROJECT #: 01073.15
COLLECTION DATE: 03/21/89
WORK ORDER #: 032289-0107314
STATION ID: 19-WA-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37548
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-8
SAMPLE COLLECTOR: BLL

ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37351
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	53	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37352
PROJECT #: 01073.14
WORK ORDER #: 031589-0107314
REPORT DATE: 03/27/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	3.8	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37352
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	3.8	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37353
PROJECT #: 01073.15
WORK ORDER #: 031589-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/14/89
STATION ID: 19-E-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37354 REPORT DATE: 03/29/89
PROJECT #: 01073.15 COLLECTION DATE: 03/14/89
WORK ORDER #: 031589-0107314 STATION ID: 19-E-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37312
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	140	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37313
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	150	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37314
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	190	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37315
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	240	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37316
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	140	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37317
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	45	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37318
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	1.0	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37319
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/20/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.1	mg/kg dry wt.
AROCLOR - 1221	<0.1	mg/kg dry wt.
AROCLOR - 1232	<0.1	mg/kg dry wt.
AROCLOR - 1242	<0.1	mg/kg dry wt.
AROCLOR - 1248	<0.1	mg/kg dry wt.
AROCLOR - 1254	<1.0*	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

* Trace of Aroclor 1254 present in sample 37319.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37312
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37313
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	150	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37314
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	190	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Dougnty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37315
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	240	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D. / Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37316
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37317
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	45	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37318
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37319
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/23/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

Trace of Aroclor 1248 present. PCB'S determined to be Aroclor1248;therefore,values not reported for other mixtures

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37312
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth E. Brunner

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37313
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	150	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth A Rossmer
Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37314
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	190	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C. Rumsey

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37315
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	240	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37316
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth C. Ramacciotti
Ayan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37317
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	45	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth O Doughty

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37318
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT.

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures. Revised & reissued: 03/30/89.

Kenneth A. Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37319
PROJECT #: 01073.14
WORK ORDER #: 031489-0107314
REPORT DATE: 03/30/89
COLLECTION DATE: 03/13/89
STATION ID: 19-W-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

Trace of A-1248 present.PCB's determined to be A-1248;therefore,values not reported for other mixtures.Revised:03/30/89

Kenneth C Bowers
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37550
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/21/89
STATION ID: 8-SA-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	85.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37505
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	73.6	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GP SAGINAW GREY IRON
SAMPLE #: 37506
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	290.9	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37507
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	115.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37508
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	71.6	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37509
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	67.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37510
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	13.7	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37511
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/20/89
STATION ID: 9-N-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	3.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC GFD SAGINAW GREY IRON
SAMPLE #: 37512
PROJECT #: 01073.15
WORK ORDER #: 032189-0107314
REPORT DATE: 03/29/89
COLLECTION DATE: 03/20/89
STATION ID: 9-S-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	49.4	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37445
PROJECT #: 01073.15
WORK ORDER #: 032089-0107314
REPORT DATE: 04/04/89
COLLECTION DATE: 03/17/89
STATION ID: 9-E-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	164.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37446
PROJECT #: 01073.15
WORK ORDER #: 032089-0107314
REPORT DATE: 04/04/89
COLLECTION DATE: 03/17/89
STATION ID: 9-E-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	9.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37543
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	93.7	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37544
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	183.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37545
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	265.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37546
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	176.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D. / Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37547
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	140.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37548
PROJECT #: 01073.15
WORK ORDER #: 032289-0107314
REPORT DATE: 04/03/89
COLLECTION DATE: 03/21/89
STATION ID: 19-WA-8
SAMPLE COLLECTOR: BLL

ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

GM POWERTRAIN

[redacted]

File #32 (Question 2N and 2T) - #8 Mold Line Basement, lab data, final clean-up.

[redacted]

File #34 (Question 2C) - Solid waste, volumes and lab analysis of toxic substances.

File #35 (Question 2C) - 1992 RCRA Biennial, for usages of RCRA storage area.

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38799 REPORT DATE: 05/11/89
PROJECT #: 01073.15 COLLECTION DATE: 05/03/89
WORK ORDER #: 050489-0107315 STATION ID: 8-WD-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38714
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/05/89
COLLECTION DATE: 05/02/89
STATION ID: 9-SC-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	23.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38715
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/11/89
COLLECTION DATE: 05/02/89
STATION ID: 9-SC-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	20.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38716
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/12/89
COLLECTION DATE: 05/02/89
STATION ID: 9-SC-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	2.6	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38717 REPORT DATE: 05/18/89
PROJECT #: 01073.15 COLLECTION DATE: 05/02/89
WORK ORDER #: 050389-0107315 STATION ID: 9-SC-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38723
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/05/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	81.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38724
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/11/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	81.2	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38725
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/12/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	300.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38727
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/18/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	31.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38728
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 05/26/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	32.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38729
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 06/07/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	18.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38730
PROJECT #: 01073.15
WORK ORDER #: 050389-0107315
REPORT DATE: 06/16/89
COLLECTION DATE: 05/02/89
STATION ID: 19-WE-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38122
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/12/89
STATION ID: 8-SB-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	161.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38123
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 04/25/89
COLLECTION DATE: 04/12/89
STATION ID: 8-SB-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth A Rummer
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38124
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 04/21/89
COLLECTION DATE: 04/12/89
STATION ID: 8-SB-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38129 REPORT DATE: 05/01/89
PROJECT #: 01073.15 COLLECTION DATE: 04/12/89
WORK ORDER #: 041389-0107315 STATION ID: 19-WD-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	230.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38131
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 04/25/89
COLLECTION DATE: 04/12/89
STATION ID: 8-WC-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth A Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38135
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/12/89
STATION ID: 8-WC-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	52.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38130
PROJECT #: 01073.15
WORK ORDER #: 041389-0107315
REPORT DATE: 05/15/89
COLLECTION DATE: 04/12/89
STATION ID: 19-WD-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	63.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38081
PROJECT #: 01073.15
WORK ORDER #: 041289-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/11/89
STATION ID: 19-WD-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	225.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38084
PROJECT #: 01073.15
WORK ORDER #: 041289-0107315
REPORT DATE: 04/25/89
COLLECTION DATE: 04/11/89
STATION ID: 19-WD-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	71.2	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth A Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38085
PROJECT #: 01073.15
WORK ORDER #: 041289-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/11/89
STATION ID: 19-EB-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38086
PROJECT #: 01073.15
WORK ORDER #: 041289-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/11/89
STATION ID: 19-EB-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38064
PROJECT #: 01073.15
WORK ORDER #: 041189-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/10/89
STATION ID: 8-SB-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	11.9	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

Madison, WI 53703 Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38066
PROJECT #: 01073.15
WORK ORDER #: 041189-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/10/89
STATION ID: 19-WC-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	52.2	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38067
PROJECT #: 01073.15
WORK ORDER #: 041189-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/10/89
STATION ID: 19-WC-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38049
PROJECT #: 01073.15
WORK ORDER #: 041089-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/07/89
STATION ID: 8-WB-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	25.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 38050
PROJECT #: 01073.15
WORK ORDER #: 041089-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/07/89
STATION ID: 8-WB-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37962
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SA-10
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	285.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37963
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SA-11
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	63.4*	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

* Value for 37963 is average of two separate extractions; per discussion with Ben Lawrence.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37964
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SA-12
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37966
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 8-SB-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	19.7	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37967
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SB-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	113.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37969
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SB-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37973
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/19/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SB-7
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	24.1	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37974
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/20/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SB-8
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	4.3	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37975
PROJECT #: 01073.15
WORK ORDER #: 040789-0107315
REPORT DATE: 04/21/89
COLLECTION DATE: 04/06/89
STATION ID: 9-SB-9
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37927 REPORT DATE: 04/13/89
PROJECT #: 01073.15 COLLECTION DATE: 04/05/89
WORK ORDER #: 040689-0107315 STATION ID: 9-NA-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D. / Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37929
PROJECT #: 01073.15
WORK ORDER #: 040689-0107315
REPORT DATE: 04/13/89
COLLECTION DATE: 04/05/89
STATION ID: 9-NA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.

LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37932
PROJECT #: 01073.15
WORK ORDER #: 040689-0107315
REPORT DATE: 04/13/89
COLLECTION DATE: 04/05/89
STATION ID: 9-NA-6
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, value not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37731
PROJECT #: 01073.15
WORK ORDER #: 032989-0107315
REPORT DATE: 04/08/89
COLLECTION DATE: 03/28/89
STATION ID: 19-EA-1
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth C Bruner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37732
PROJECT #: 01073.15
WORK ORDER #: 032989-0107315
REPORT DATE: 04/08/89
COLLECTION DATE: 03/28/89
STATION ID: 19-EA-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	72.5	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth A. Rummel

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37733
PROJECT #: 01073.15
WORK ORDER #: 032989-0107315
REPORT DATE: 04/08/89
COLLECTION DATE: 03/28/89
STATION ID: 19-EA-3
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth A Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37734
PROJECT #: 01073.15
WORK ORDER #: 032989-0107315
REPORT DATE: 04/08/89
COLLECTION DATE: 03/28/89
STATION ID: 19-EA-4
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	22.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth C. Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37735
PROJECT #: 01073.15
WORK ORDER #: 032989-0107315
REPORT DATE: 04/08/89
COLLECTION DATE: 03/28/89
STATION ID: 19-EA-5
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Kenneth C Brunner
Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW GREY IRON
SAMPLE #: 37618
PROJECT #: 01073.15
WORK ORDER #: 032489-0107314
REPORT DATE: 03/31/89
COLLECTION DATE: 03/23/89
STATION ID: 8-SA-2
SAMPLE COLLECTOR: BLL

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	N/A	mg/kg dry wt.
AROCLOR - 1221	N/A	mg/kg dry wt.
AROCLOR - 1232	N/A	mg/kg dry wt.
AROCLOR - 1242	N/A	mg/kg dry wt.
AROCLOR - 1248	178	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	N/A	mg/kg dry wt.

PCB'S determined to be Aroclor 1248; therefore, values not reported for other mixtures.

Alan Doughty, Ph.D., Laboratory Director

PCB Sampling Following Remediation

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Clean Water Pool
ETC SAMPLE NUMBER: 5517-471

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water, Pool
ETC SAMPLE NUMBER: 5517-610

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T0025

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, pool after filtering
ETC SAMPLE NUMBER: 5517-T0013

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water, drum #428, east end trench
ETC SAMPLE NUMBER: 5517-605

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	33.8
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite, Drums #430 - #432
ETC SAMPLE NUMBER: 5517-615

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,530
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite, Drums #433 - #445
ETC SAMPLE NUMBER: 5517-616

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	12,650
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, East End Sump Drum #429
ETC SAMPLE NUMBER: 5517-617

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,840
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Water Pool
ETC SAMPLE NUMBER: 5517-618

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	0.074
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Dirty Pool Water
ETC SAMPLE NUMBER: 5517-619

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	472
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #430
ETC SAMPLE NUMBER: 5517-623

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	11,500
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

3.53 g dry weight
Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #431
ETC SAMPLE NUMBER: 5517-624

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

3.14 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #432
ETC SAMPLE NUMBER: 5517-625

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	6,250
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.24 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #433
ETC SAMPLE NUMBER: 5517-626

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4,290
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

5.49 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #434
ETC SAMPLE NUMBER: 5517-627

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,220
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.15 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #435
ETC SAMPLE NUMBER: 5517-628

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,150
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

4.51 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #436
ETC SAMPLE NUMBER: 5517-629

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.56 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #437
ETC SAMPLE NUMBER: 5517-630

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,660
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.74 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #438
ETC SAMPLE NUMBER: 5517-631

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,800
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.51 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #449
ETC SAMPLE NUMBER: 5517-632

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,770
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.87 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #440
ETC SAMPLE NUMBER: 5517-633

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,340
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.79 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #441
ETC SAMPLE NUMBER: 5517-634

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,220
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.39 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #442
ETC SAMPLE NUMBER: 5517-635

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,440
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.43 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #443
ETC SAMPLE NUMBER: 5517-636

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.56 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Dirty Pool Water
ETC SAMPLE NUMBER: 5517-638

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	57.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool Water
ETC SAMPLE NUMBER: 5517-639

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #444
ETC SAMPLE NUMBER: 5517-642

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,100
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #445
ETC SAMPLE NUMBER: 5517-643

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	6,290
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #446
ETC SAMPLE NUMBER: 5517-644

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,940
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #447
ETC SAMPLE NUMBER: 5517-645

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,900
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #448
ETC SAMPLE NUMBER: 5517-646

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3,030
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #449
ETC SAMPLE NUMBER: 5517-647

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,180
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #450
ETC SAMPLE NUMBER: 5517-648

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	381
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 4.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #451
ETC SAMPLE NUMBER: 5517-649

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,680
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #439
ETC SAMPLE NUMBER: 5517-654

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	11,500
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 408, free liquid
ETC SAMPLE NUMBER: 5517-581

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.045
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 409, Dirty pool sludge
ETC SAMPLE NUMBER: 5517-582

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	16,400
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 410, Dirty Pool sludge
ETC SAMPLE NUMBER: 5517-583

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	20,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 411, Dirty pool sludge
ETC SAMPLE NUMBER: 5517-584

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	15,100
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 412, Dirty free liquid from drum
ETC SAMPLE NUMBER: 5517-585

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	35,700
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 2,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 418, Sludge from drum
ETC SAMPLE NUMBER: 5517-586

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	228
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 426, Trench water, south center basement
ETC SAMPLE NUMBER: 5517-593

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 427, Water from sludge drums
ETC SAMPLE NUMBER: 5517-594

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4.40
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 404-407

SAMPLE IDENTIFIER: Composite of 571 - 574
ETC SAMPLE NUMBER: 5571-C62

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,860
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 500 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

Drums 399-403

SAMPLE IDENTIFIER: Composite of 556 - 570
ETC SAMPLE NUMBER: 5571-C61

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	70,700
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5,000 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Composite - Each 1-3 of 598
ETC SAMPLE NUMBER: 5517-598

Compound	Concentration (ug/L
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Drum - Klensorb
ETC SAMPLE NUMBER: 5517-T011

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.50
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Raw Dirty Drum
ETC SAMPLE NUMBER: 5517-T010

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	509,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 374-378

SAMPLE IDENTIFIER: Water, Composite of 527 through 531
ETC SAMPLE NUMBER: 5517-C57

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	11,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 379-383

SAMPLE IDENTIFIER: Water, Composite of 532 through 536
ETC SAMPLE NUMBER: 5517-C58

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	83.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 384 - 387

SAMPLE IDENTIFIER: Water, Composite of 552 through 555
ETC SAMPLE NUMBER: 5517-C59

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	320
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drum 390 - 398

SAMPLE IDENTIFIER: Water, Composite of 390 through 398
ETC SAMPLE NUMBER: 5517-C60

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	327
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T005

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T006

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T007

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T008

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T009

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 367 - 373

SAMPLE IDENTIFIER: Composite of 505, 506, 507, 508, 509, 510, 511, and 512
ETC SAMPLE NUMBER: 5517-C56

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	110,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T001

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.51
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T002

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.241
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T003

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4.21
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T004

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	16.4
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 265 & 266

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 403 & 404
ETC SAMPLE NUMBER: 5517-C41

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	150
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 264 & 267-273

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 402 & 405 through 411
ETC SAMPLE NUMBER: 5517-C42

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	8.99
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 274 - 281

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 412 through 419
ETC SAMPLE NUMBER: 5517-C43

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 282-284 & 287-289

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 420, 421, 422, 425, 426, 427
ETC SAMPLE NUMBER: 5517-C44

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	14.6
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 285 & 286

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 423 & 424
ETC SAMPLE NUMBER: 5517-C45

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 290 - 295

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 428 through 433
ETC SAMPLE NUMBER: 5517-C46

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	17.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PCB Sampling Following Remediation

TABLE I
POLYCHLORINATED BIPHENYL RESULTS
WATER SAMPLES
(all concentrations in ug/l)

SAMPLE NUMBER	DESCRIPTION	AROCLOR 1242
5517-698A	Composite of samples 5517-504 through 5517-512	169
5517-699A	Composite of samples 5517-513 through 5517-518	391
5517-700	Composite of samples 5517-519 through 5517-523	42.6
5517-701	Composite of samples 5517-524 through 5517-535	17.4
5517-702	Composite of samples 5517-536 through 5517-538	5.18
Method Detection Limit (MDL)		0.10

ug/l = ppb (parts-per-billion)
ND = Not Detected
< = Indicates concentration less than value detailed

TABLE II
POLYCHLORINATED BIPHENYL RESULTS
OIL SAMPLES
(all concentrations in mg/kg)

SAMPLE NUMBER	DESCRIPTION	AROCLOR 1242
5517-698B	Composite of samples 5517-508, 5517-509 and 5517-511	142
5517-699B	Composite of samples 5517-513 through 5517-518	114
Method Detection Limit		1.00

mg/kg = ppm (parts-per-million)
ND = Not Detected
< = Indicates concentration less than value detailed

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS*
(All concentrations are reported in mg/Kg)

Sample Number	Description	Aroclor 1242	Aroclor 1248
726	Composite Drums #638-643, Oil/Sand from Lower Pit	BDL	1.75
731	Composite Drums #619, 626, 670, 640, 672-674, Oil and Sand from West Pit	BDL	1.23
732	Composite Drums #646, 645, 644, 649, 667, 668, 669, Oil, Sand, Floor-dry	BDL	72.2

*All other Aroclors were analyzed for and were below the detection limit
Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS* (CONTINUED)
(All concentrations are reported in ug/L)

Sample Number	Description	Aroclor 1242	Aroclor 1248
727	Composite Drums #601-614, Water from East Trench	14.3	BDL

*All other Aroclors were analyzed for and were below the detection limit
Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 296 - 301

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 434 through 439
ETC SAMPLE NUMBER: 5517-C47

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	91.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid Composite (Drums 335, 336)
ETC SAMPLE NUMBER: 5517-C0-34

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,270
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 337, 338, 339, 340, 341, 342, 343)
ETC SAMPLE NUMBER: 5517-C0-35

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	873
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 344, 345, 349, 350, 351, 352)
ETC SAMPLE NUMBER: 5517-C0-36

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,040
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 346, 347)
ETC SAMPLE NUMBER: 5517-C0-37

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,770
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 353, 354, 355, 356, 357, 358, 359)
ETC SAMPLE NUMBER: 5517-C0-38

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	498
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 360, 361, 362, 363, 364, 365, 366)
ETC SAMPLE NUMBER: 5517-C0-39

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	763
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 367, 368, 369, 370, 371, 372, 373)
ETC SAMPLE NUMBER: 5517-C0-40

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

Drums 171 - 178

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 273, 274, 275, 276, 277, 278, 279, 280)

ETC SAMPLE NUMBER: 5517-C27

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	730
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 179-85

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 281, 282, 283, 284, 285, 286, 287)
ETC SAMPLE NUMBER: 5517-C28

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	27.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 186-194

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 288, 289, 290, 291, 292, 293, 294, 295, 296)
ETC SAMPLE NUMBER: 5517-C29

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	225
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 175-203

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 297, 298, 299, 300, 301, 302, 303, 304, 305)
ETC SAMPLE NUMBER: 5517-C30

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	161
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 204-211

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 306, 307, 308, 309, 310, 311, 312, 313)
ETC SAMPLE NUMBER: 5517-C31

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	66.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 212-218

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 314, 315, 316, 317, 318, 319, 320)
ETC SAMPLE NUMBER: 5517-C32

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	332
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

Drums 219-225

SAMPLE IDENTIFIER: Liquid Composite (~~Drums~~ Samples 321, 322, 324, 325, 326, 327)

ETC SAMPLE NUMBER: 5517-C33

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	59.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 57 - 74

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C16

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,530
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 75-102

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C17

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	10,600
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Page 103-110

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C18

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	950
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drum [illegible]

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C19

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	56.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 119-126

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C20

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 127-134

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C21

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Lines 135-142

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C22

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 159 - 166

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C25

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 67-79

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C26

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C01 Drums 1-8 Storage Area 4

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	203
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C02 DRUMS 9-15 STORAGE AREA #1

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C03 Drums 16-19 Storage Area #1

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	208
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-C04 Drums 20-22 Storage Area #1

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,120
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C05 Drums 23-26 Storage Area #1

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C06

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,360
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C07

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,900 ≤ 9 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C08

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4,450 J dup-~
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C09 Drums 52-55 Storage Area #2

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	135
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C10 Drums 56 - 59 STORAGE AREA #2

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,940
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-C11 60.61 Dennis

STOCKPILE AREA #2

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	59,700
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

83-84 #2 85-86 #1

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-C12 Drums 62-63 69

Storage Area #1
Storage Area #2

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	462
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C13 DRUMS 64-68 STORAGE AREA #1

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C14 Drums - 70-78 STORAGE AREA #5

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	662
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C15 Drums 79-82 STRANGE NAME #

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-30

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-31

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1.30
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Wipe
CHM SAMPLE NUMBER: 5517-28

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
CHM SAMPLE NUMBER: 5517-29

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3.05
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-32

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-33

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil
OHM SAMPLE NUMBER: 5517-34

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	10.2
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.3 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil
OHM SAMPLE NUMBER: 5517-35

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	124
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.3 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil
OHM SAMPLE NUMBER: 5517-36

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	427
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.3 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
IHM SAMPLE NUMBER: 5517-37

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-38

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
CHM SAMPLE NUMBER: 5517-39

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 151-153

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C24

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

Drums 143 - 50

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C23

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-40

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-41

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-42

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-144

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4.58
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-145

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5.21
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-146

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4.98
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-147

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	64.0
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-148

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	103
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
IHM SAMPLE NUMBER: 5517-149

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-150

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS* (CONTINUED)
(All concentrations are reported in ug/L)

Sample Number	Description	Aroclor 1242	Aroclor 1248
729	Composite Drums #618, 627, 628, 631, Water from Lower Pit	72.3	BDL
733	Composite Drums #650-666, Water from West Trench	102	BDL
735	Composite Drums # 675-679, Water from East Pit	2,370	BDL

*All other Aroclors were analyzed for and were below the detection limit
Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS* (CONTINUED)
(All concentrations are reported in mg/Kg)

Sample Number	Description	Aroclor 1242	Aroclor 1248
724	Composite Drums #578-548, Oil from Floor	26.7	BDL
725	Oil from Drum #616, Oil from West Trench	17.8	BDL
728	From Drum #615, Water and Oil from East Trench	26.3	BDL
730	From Drum #629, Oil and Water from West Trench	36.5	BDL
734	Composite Drums #632, 637, 672, 633-636, Oil and Water from Lower Pit	32.9	BDL

*All other Aroclors were analyzed for and were below the detection limit
Limit of Detection = 3.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - INCINERATION DISPOSAL ANALYSIS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Parameter	Result
Color	Brown
Odor	None
Number of Phases	1
Percent by volume of phases	100
Physical state of phases	Liquid
Density	1.00 gm/cm^3
Flash Point, PM, CC	> 95°C
Viscosity, Brookefield	1.5 cpu
BTU Content	< 200 BTU/lb
Ash Content	0.06% by weight
Chlorine Content	< 0.1% by weight
Sulfur Content	< 0.1% by weight
Total Solids	0.08% by weight
Total Suspended Solids	0.04% by weight
Total Dissolved Solids	0.04% by weight

PROJECT 5517

TABLE 2 - VOLATILE ORGANICS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)
Benzene	BDL
Bromomethane	BDL
Bromodichloromethane	BDL
Bromoform	BDL
Carbon Tetrachloride	BDL
Chlorobenzene	BDL
Chloroethane	BDL
2-Chloroethylvinyl ether	BDL
Chloroform	BDL
Chloromethane	BDL
Dibromochloromethane	BDL
1,2-Dichlorobenzene	BDL
1,3-Dichlorobenzene	BDL
1,4-Dichlorobenzene	BDL
1,1-Dichloroethane	BDL
1,2-Dichloroethane	BDL
1,1-Dichloroethene	BDL
Trans-1,2-Dichloroethene	BDL
1,2-Dichloropropane	BDL
Cis-1,2-Dichloropropene	BDL
Trans-1,3-Dichloropropene	BDL
Ethylbenzene	BDL
Methylene Chloride	BDL
1,1,2,2-Tetrachloroethane	BDL
Tetrachloroethene	BDL
1,1,1-Trichloroethane	BDL
1,1,2-Trichloroethane	BDL
Trichloroethene	BDL
Trichlorofluoromethane	BDL
Toluene	BDL
Vinyl Chloride	BDL
Total Xylenes	BDL

Limit of Detection = 100 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 3 - VOLATILE HSL COMPOUNDS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)	Detection Limit (mg/L)
Acetone	BDL	100
Acrolein	BDL	100
Acrylonitrile	BDL	100
2-Butanone (MEK)	BDL	100
Carbon Disulfide	BDL	100
Ethyl ether	BDL	100
Ethylene Dibromide	BDL	100
2-Hexanone	BDL	100
4-Methyl-2-Pentanone (MIBK)	BDL	100
Styrene	BDL	100
Tetrahydrofuran	BDL	100
1,1,2-Trichloro-1,2,2-trifluoroethane	BDL	100
Vinyl Acetate	BDL	100

mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 4 - VOLATILE SCREEN RESULTS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)

No chromatographic peaks present with an area greater than 25% of the internal standards

PROJECT 5517

TABLE 5 - BASE/NEUTRAL COMPOUNDS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)
Acenaphthene	BDL
Acenaphthylene	BDL
Anthracene	BDL
Benzo(a)anthracene	BDL
Benzo(b)fluoranthene	BDL
Benzo(k)fluoranthene	BDL
Benzo(a)pyrene	BDL
Benzo(g,h,i)perylene	BDL
Bis(2-chloroethyl)ether	BDL
Bis(2-chloroethoxy)methane	BDL
Bis(2-ethylhexyl)phthalate	BDL
Bis(2-chloroisopropyl)ether	BDL
4-Bromophenyl phenyl ether	BDL
Butyl benzyl phthalate	BDL
2-Chloronaphthalene	BDL
4-Chlorophenyl phenyl ether	BDL
Chrysene	BDL
Dibenzo(a,h)anthracene	BDL
Di-n-butylphthalate	BDL
1,3-Dichlorobenzene	BDL
1,4-Dichlorobenzene	BDL
1,2-Dichlorobenzene	BDL
Diethylphthalate	BDL
Dimethylphthalate	BDL
2,4-Dinitrotoluene	BDL
2,6-Dinitrotoluene	BDL
Dioctylphthalate	BDL
1,2-Diphenyl hydrazine	BDL
Fluoranthene	BDL
Fluorene	BDL
Hexachlorobenzene	BDL
Hexachlorobutadiene	BDL
Hexachloroethane	BDL
Hexachlorocyclopentadiene	BDL
Indeno-(1,2,3-cd)pyrene	BDL
Isophorone	BDL
Naphthalene	BDL
Nitrobenzene	BDL
N-Nitrosodi-n-propylamine	BDL
N-Nitrosodiphenylamine	BDL
Phenanthrene	BDL
Pyrene	BDL
1,2,4-Trichlorobenzene	BDL

Limit of Detection = 10.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 6 - ACID EXTRACTABLE

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)
4-Chloro-3-Methylphenol	BDL
2-Chlorophenol	BDL
2,4-Dichlorophenol	BDL
2,4-Dimethylphenol	BDL
2,4-Dinitrophenol	BDL
2-Methyl-4,6-Dinitrophenol	BDL
2-Nitrophenol	BDL
4-Nitrophenol	BDL
Pentachlorophenol	BDL
Phenol	BDL
2,4,6-Trichlorophenol	BDL

Limit of Detection = 10.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 7 - ADDITIONAL SEMI-VOLATILE HSL COMPOUNDS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)
Aniline	BDL
Benzyl Alcohol	BDL
4-Chloroaniline	BDL
Dibenzofuran	BDL
2-Methylnaphthalene	BDL
2-Methylphenol	BDL
4-Methylphenol	BDL
2-Nitroaniline	BDL
3-Nitroaniline	BDL
4-Nitroaniline	BDL
2,4,5-Trichlorophenol	BDL

Limit of Detection = 10.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 8 - SEMI-VOLATILE SCREEN RESULTS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (mg/L)

No chromatographic peaks present with an area greater than 25% of the internal standards

PROJECT 5517

TABLE 9 - PESTICIDES AND PCBS

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (ug/L)	Detection Limit (ug/L)
Aldrin	BDL	100
BHC-alpha	BDL	100
BHC-beta	BDL	100
BHC-gamma	BDL	100
BHC-delta	BDL	100
Chlordane	BDL	100
4,4'-DDD	BDL	100
4,4'-DDE	BDL	100
4,4'-DDT	BDL	100
Dieldrin	BDL	100
Endosulfan-alpha	BDL	100
Endosulfan-beta	BDL	100
Endosulfan sulfate	BDL	100
Endrin	BDL	100
Endrin aldehyde	BDL	100
Heptachlor	BDL	100
Heptachlor epoxide	BDL	100
Toxaphene	BDL	100
	BDL	100
POLYCHLORINATED BIPHENYLS		
Aroclor 1016	BDL	100
Aroclor 1221	BDL	100
Aroclor 1232	BDL	100
Aroclor 1242	4,280	100
Aroclor 1248	BDL	100
Aroclor 1254	BDL	100
Aroclor 1260	BDL	100

ug/L = ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 10 - TOTAL METALS FOR INCINERATION DISPOSAL

SAMPLE IDENTIFIER: S-1, Liquid-sump
OHM SAMPLE NUMBER: 5517-010

Compound Name	Concentration mg/L	Detection Limit mg/L
Antimony	BDL	1.0
Arsenic	BDL	1.0
Barium	BDL	1.0
Beryllium	BDL	1.0
Cadmium	BDL	1.0
Chromium (Total)	BDL	1.0
Copper	2.07	1.0
Iron	11.9	1.0
Lead	BDL	1.0
Manganese	BDL	1.0
Mercury	BDL	0.2
Nickel	BDL	1.0
Selenium	BDL	1.0
Silver	BDL	1.0
Thallium	BDL	1.0
Zinc	BDL	1.0

mg/L = ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe
OHM SAMPLE NUMBER: 5517-151

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil; Southwall, westend
OHM SAMPLE NUMBER: 5517-152

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	518
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil; Northwall, Westend
OHM SAMPLE NUMBER: 5517-153

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	568
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Black sludge; Southwall, westend
OHM SAMPLE NUMBER: 5517-154

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,593
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Pit, Liquid
ETC SAMPLE NUMBER: 5517-179

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	12.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid
ETC SAMPLE NUMBER: 5517-180

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	187,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Solid
ETC SAMPLE NUMBER: 5517-181

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	8,150
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Solid
ETC SAMPLE NUMBER: 5517-182

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	20,400
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off, Solid
ETC SAMPLE NUMBER: 5517-243

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	341
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off, 2642
ETC SAMPLE NUMBER: 5517-244

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	565
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off, 2505
ETC SAMPLE NUMBER: 5517-245

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	710
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off, 2697
ETC SAMPLE NUMBER: 5517-246

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,290
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off, 2684
ETC SAMPLE NUMBER: 5517-247

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	926
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Roll-off
ETC SAMPLE NUMBER: 5517-248

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	777
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Wipe, Pump room
ETC SAMPLE NUMBER: 5517-249

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	9.40
Aroclor 1254	3.08
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Wipe, duplicate 249
ETC SAMPLE NUMBER: 5517-250

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	7.39
Aroclor 1254	2.95
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Blank
ETC SAMPLE NUMBER: 5517-251

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off/Solid
ETC SAMPLE NUMBER: 5517-263

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	323
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-264

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	61.3
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-265

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	877
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-266

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	760
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-267

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	537
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-268

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	685
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-269

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	743
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-270

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	344
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-271

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	12.0
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll off, Solid
ETC SAMPLE NUMBER: 5517-272

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	95.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, W. column S. side, 4' from floor
ETC SAMPLE NUMBER: 5517-328

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1.13
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, Duplicate of #328
ETC SAMPLE NUMBER: 5517-329

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, E. column N. side, 4' up from floor
ETC SAMPLE NUMBER: 5517-330

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2.97
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, Duplicate of #330
ETC SAMPLE NUMBER: 5517-331

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2.09
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, Wall in front of E. column/beside socket
ETC SAMPLE NUMBER: 5517-332

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	6.52
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, Equipment Blank
ETC SAMPLE NUMBER: 5517-333

Compound	Concentration (ug/100 cm^2)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/100 cm^2
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Black sludge from westend elevator
ETC SAMPLE NUMBER: 5517-334

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3.80
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oil, drainage from wall
ETC SAMPLE NUMBER: 5517-348

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	72.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from NW corner pit
ETC SAMPLE NUMBER: 5517-374

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from North Wall middle, pit
ETC SAMPLE NUMBER: 5517-375

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	13.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from NE corner, pit
ETC SAMPLE NUMBER: 5517-376

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	16.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from SW corner, pit
ETC SAMPLE NUMBER: 5517-378

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from South wall, middle, pit
ETC SAMPLE NUMBER: 5517-379

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	549
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from SE corner, pit
ETC SAMPLE NUMBER: 5517-380

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,910
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil from Rolloff
ETC SAMPLE NUMBER: 5517-381

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	7.30
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid from Northeast Wall
ETC SAMPLE NUMBER: 5517-382

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1.42
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oily Liquid from tile (between West end trench and pit)
ETC SAMPLE NUMBER: 5517-383

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	53,200
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff
ETC SAMPLE NUMBER: 5517-384

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	9.85
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oily Liquid from Northeast wall of basement
ETC SAMPLE NUMBER: 5517-385

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	10.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil from Rolloff #3172
ETC SAMPLE NUMBER: 5517-386

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3.13
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff #2601
ETC SAMPLE NUMBER: 5517-387

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	813
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff #2639
ETC SAMPLE NUMBER: 5517-388

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	49.0
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff #2633
ETC SAMPLE NUMBER: 5517-389

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,890
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from North Pit Sump #2
ETC SAMPLE NUMBER: 5517-390

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,380
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from South Pit Sump #1
ETC SAMPLE NUMBER: 5517-391

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	23,700
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-392

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,020
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-393

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,660
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-394

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,740
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-395

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,530
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-396

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3,120
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-397

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,090
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-398

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3,240
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-399

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2,780
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sump Sludge West End Pit
ETC SAMPLE NUMBER: 5517-400

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2,260
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil Roll Off #2633
ETC SAMPLE NUMBER: 5517-401

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,930
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Oil; W. End Sump Pit
ETC SAMPLE NUMBER: 5517-440

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	41,200
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 40.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oil; E. End North Wall
ETC SAMPLE NUMBER: 5517-441

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid; W. End Sump Pit
ETC SAMPLE NUMBER: 5517-442

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	35,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff 2601
ETC SAMPLE NUMBER: 5517-443

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	633
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff 2639
ETC SAMPLE NUMBER: 5517-444

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5.41
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from Rolloff 2633
ETC SAMPLE NUMBER: 5517-445

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	253
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid
ETC SAMPLE NUMBER: 5517-446

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,790
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid
ETC SAMPLE NUMBER: 5517-447

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Clean Water Pool
ETC SAMPLE NUMBER: 5517-471

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil from roll-off #2697
ETC SAMPLE NUMBER: 5517-491

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,440
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 500 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from roll-off #2693
ETC SAMPLE NUMBER: 5517-492

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	9,020
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil from roll-off #3815
ETC SAMPLE NUMBER: 5517-493

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,100
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 500 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw pool water before Treatment
ETC SAMPLE NUMBER: 5517-494

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	7,680
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Brown Oil & Water Mixture, North Wall - East End
ETC SAMPLE NUMBER: 5517-495

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	33.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water Leak, South Wall, East End, East Location
ETC SAMPLE NUMBER: 5517-496

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	384,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water Leak, South Wall, East End, West Location
ETC SAMPLE NUMBER: 5517-497

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	607,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sludge from Water Drums, Drum #360
ETC SAMPLE NUMBER: 5517-499

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,540
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sludge from Water Drums, Drum #361
ETC SAMPLE NUMBER: 5517-500

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	6,050
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sludge from Water Drums, Drum #362
ETC SAMPLE NUMBER: 5517-501

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	8,040
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sludge from Water Drums, Drum #363
ETC SAMPLE NUMBER: 5517-502

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	24,100
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #434
ETC SAMPLE NUMBER: 5517-627

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,220
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.15 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #435
ETC SAMPLE NUMBER: 5517-628

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,150
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

4.51 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #436
ETC SAMPLE NUMBER: 5517-629

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.56 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #437
ETC SAMPLE NUMBER: 5517-630

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,660
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.74 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #438
ETC SAMPLE NUMBER: 5517-631

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,800
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.51 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #449
ETC SAMPLE NUMBER: 5517-632

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,770
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

7.87 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #440
ETC SAMPLE NUMBER: 5517-633

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,340
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.79 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #441
ETC SAMPLE NUMBER: 5517-634

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,220
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.39 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #442
ETC SAMPLE NUMBER: 5517-635

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,440
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.43 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #443
ETC SAMPLE NUMBER: 5517-636

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.56 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roff-off #32924
ETC SAMPLE NUMBER: 5517-637

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	184
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

15.65 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Dirty Pool Water
ETC SAMPLE NUMBER: 5517-638

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	57.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool Water
ETC SAMPLE NUMBER: 5517-639

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Roll-off #2639
ETC SAMPLE NUMBER: 5517-640

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	834
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll-off #2642
ETC SAMPLE NUMBER: 5517-641

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,780
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #444
ETC SAMPLE NUMBER: 5517-642

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,100
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #445
ETC SAMPLE NUMBER: 5517-643

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	6,290
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #446
ETC SAMPLE NUMBER: 5517-644

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,940
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #447
ETC SAMPLE NUMBER: 5517-645

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5,900
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #448
ETC SAMPLE NUMBER: 5517-646

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3,030
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #449
ETC SAMPLE NUMBER: 5517-647

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,180
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #450
ETC SAMPLE NUMBER: 5517-648

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	381
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 4.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #451
ETC SAMPLE NUMBER: 5517-649

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,680
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Water From System; Drum #452
ETC SAMPLE NUMBER: 5517-650

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Water From System; Drum #453
ETC SAMPLE NUMBER: 5517-651

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Water From System; Drum #454
ETC SAMPLE NUMBER: 5517-652

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Water From System; Drum #455
ETC SAMPLE NUMBER: 5517-653

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Pool Sludge; Drum #439
ETC SAMPLE NUMBER: 5517-654

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	11,500
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid; Drum #456
ETC SAMPLE NUMBER: 5517-655

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid; Drum #457
ETC SAMPLE NUMBER: 5517-656

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	57.7
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid; Drum #458
ETC SAMPLE NUMBER: 5517-657

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	506
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oil; Drum #459
ETC SAMPLE NUMBER: 5517-658

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil; Roll-off #2646
ETC SAMPLE NUMBER: 5517-659

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,940
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 05.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil; Roll-off #2635
ETC SAMPLE NUMBER: 5517-660

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	677
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 05.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil; Roll-off #2602
ETC SAMPLE NUMBER: 5517-661

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	5490
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 05.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Sludge from Water Drums, Drum #365
ETC SAMPLE NUMBER: 5517-504

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	12,100
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil from East End of North Wall
ETC SAMPLE NUMBER: 5517-513

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	109
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil, Roll-off #2633
ETC SAMPLE NUMBER: 5517-525

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4,780
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Roll-off #3330
ETC SAMPLE NUMBER: 5517-526

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	25,100
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Roll-off #3284
ETC SAMPLE NUMBER: 5517-549

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	15.2
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Roll-off #2641
ETC SAMPLE NUMBER: 5517-550

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	10.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Roll-off #2642
ETC SAMPLE NUMBER: 5517-551

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1.61
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Roll-off #2703
ETC SAMPLE NUMBER: 5517-556

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	18.8
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Dirt From Rolloff #32920
ETC SAMPLE NUMBER: 5571-575

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	495
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Northeast Corner Sump Wall Leak - Liquid
ETC SAMPLE NUMBER: 5571-576

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	75.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 13 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: East End South Wall West Wall Location - Liquid
ETC SAMPLE NUMBER: 5571-577

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	215
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: East End North Wall - Liquid
ETC SAMPLE NUMBER: 5571-578

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5.0
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: East End South Wall East Wall Location - Liquid
ETC SAMPLE NUMBER: 5571-579

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	293
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 15 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid, west end pit, from trench between west wall and sump excavation
ETC SAMPLE NUMBER: 5517-580

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.026
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 408, free liquid
ETC SAMPLE NUMBER: 5517-581

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.045
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 409, Dirty pool sludge
ETC SAMPLE NUMBER: 5517-582

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	16,400
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 410, Dirty Pool sludge
ETC SAMPLE NUMBER: 5517-583

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	20,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 411, Dirty pool sludge
ETC SAMPLE NUMBER: 5517-584

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	15,100
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 412, Dirty free liquid from drum
ETC SAMPLE NUMBER: 5517-585

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	35,700
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 2,000 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 418, Sludge from drum
ETC SAMPLE NUMBER: 5517-586

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	228
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 426, Trench water, south center basement
ETC SAMPLE NUMBER: 5517-593

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Drum 427, Water from sludge drums
ETC SAMPLE NUMBER: 5517-594

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4.40
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll-off, EMC
ETC SAMPLE NUMBER: 5517-595

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	274
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Roll-off, #2703
ETC SAMPLE NUMBER: 5517-596

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,500
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Composite - Each 1-3 of 598
ETC SAMPLE NUMBER: 5517-598

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water from Dirty Pool
ETC SAMPLE NUMBER: 5517-601

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	360
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water from Clean Pool
ETC SAMPLE NUMBER: 5517-602

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2.12
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Solid from roll-off #2603
ETC SAMPLE NUMBER: 5517-603

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	44.5
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Solid from roll-off #2642
ETC SAMPLE NUMBER: 5517-604

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	461
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water, drum #428, east end trench
ETC SAMPLE NUMBER: 5517-605

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	33.8
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid, east end south wall west wall
ETC SAMPLE NUMBER: 5517-606

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil, Rolloff #3286
ETC SAMPLE NUMBER: 5517-607

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2.26
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: East End, Posterior North Wall Excavation
ETC SAMPLE NUMBER: 5517-609

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #432
ETC SAMPLE NUMBER: 5517-625

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	6,250
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

6.24 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #433
ETC SAMPLE NUMBER: 5517-626

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4,290
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

5.49 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water, Pool
ETC SAMPLE NUMBER: 5517-610

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Rolloff #3288
ETC SAMPLE NUMBER: 5517-612

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	239
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Rolloff #2602
ETC SAMPLE NUMBER: 5517-613

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	18.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil, Rolloff #2604
ETC SAMPLE NUMBER: 5517-614

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	103
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite, Drums #430 - #432
ETC SAMPLE NUMBER: 5517-615

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,530
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite, Drums #433 - #445
ETC SAMPLE NUMBER: 5517-616

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	12,650
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, East End Sump Drum #429
ETC SAMPLE NUMBER: 5517-617

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,840
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Water Pool
ETC SAMPLE NUMBER: 5517-618

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	0.074
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Dirty Pool Water
ETC SAMPLE NUMBER: 5517-619

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	472
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Rolloff
ETC SAMPLE NUMBER: 5517-620

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	241
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = .5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Rolloff
ETC SAMPLE NUMBER: 5517-621

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	109
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Rolloff
ETC SAMPLE NUMBER: 5517-622

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	32.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #430
ETC SAMPLE NUMBER: 5517-623

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	11,500
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

3.53 g dry weight
Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Raw Pool Bottom Sludge Drum #431
ETC SAMPLE NUMBER: 5517-624

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	3,080
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

3.14 g dry weight

Limit of Detection = 0.50 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PCB Sampling Following Remediation

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

QC2796

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JC6035	OHM CORPORATION MIDWEST REGION	005517	749	890728		0

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	BDL	1.25	BDL
Aroclor 1221	BDL	1.25	BDL
Aroclor 1232	BDL	1.25	BDL
Aroclor 1242	BDL	1.25	BDL
Aroclor 1248	BDL	1.25	BDL
Aroclor 1254	BDL	1.25	BDL
Aroclor 1260	BDL	1.25	BDL

TABLE 1: QUA...IVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

QC2796

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JC6034	OHM CORPORATION MIDWEST REGION	005517	748	890728		0

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	BDL	1.25	BDL
Aroclor 1221	BDL	1.25	BDL
Aroclor 1232	BDL	1.25	BDL
Aroclor 1242	BDL	1.25	BDL
Aroclor 1248	BDL	1.25	BDL
Aroclor 1254	BDL	1.25	BDL
Aroclor 1260	BDL	1.25	BDL

1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours
JC6036	OHM CORPORATION MIDWEST REGION	005517	750	890728	0

QC2796

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	BDL	1.25	BDL
Aroclor 1221	BDL	1.25	BDL
Aroclor 1232	BDL	1.25	BDL
Aroclor 1242	3.52	1.25	BDL
Aroclor 1248	BDL	1.25	BDL
Aroclor 1254	BDL	1.25	BDL
Aroclor 1260	BDL	1.25	BDL

16, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours
JC6037	OHM CORPORATION MIDWEST REGION	005517	751	890728	0

QC2796

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	BDL	6.25	BDL
Aroclor 1221	BDL	6.25	BDL
Aroclor 1232	BDL	6.25	BDL
Aroclor 1242	230	6.25	BDL
Aroclor 1248	BDL	6.25	BDL
Aroclor 1254	BDL	6.25	BDL
Aroclor 1260	BDL	6.25	BDL

TABLE 1: QUANTI..VE RESULTS

, 1989

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports						
JC6038	OHM CORPORATION MIDWEST REGION	005517	752	890728		0
ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours

QC2796

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	BDL	1.25	BDL
Aroclor 1221	BDL	1.25	BDL
Aroclor 1232	BDL	1.25	BDL
Aroclor 1242	14.5	1.25	BDL
Aroclor 1248	BDL	1.25	BDL
Aroclor 1254	BDL	1.25	BDL
Aroclor 1260	BDL	1.25	BDL

30, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

B-3381

Chain of Custody Data Required for ETC Data Management Summary Reports					
JD1900	OHM CORP., MIDWEST REGIONAL OF	005517	L 754.1	891109	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	24.5	ND
Aroclor 1221	ND	24.5	ND
Aroclor 1232	ND	24.5	ND
Aroclor 1242	69.6	24.5	ND
Aroclor 1248	ND	24.5	ND
Aroclor 1254	ND	24.5	ND
Aroclor 1260	ND	24.5	ND

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JD1905	OHM CORP., MIDWEST REGIONAL OF	005517	S 755.1	891109		0

B-3381

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	24.5	ND
Aroclor 1221	ND	24.5	ND
Aroclor 1232	ND	24.5	ND
Aroclor 1242	177	24.5	ND
Aroclor 1248	ND	24.5	ND
Aroclor 1254	ND	24.5	ND
Aroclor 1260	ND	24.5	ND

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Q-3366

Chain of Custody Data Required for ETC Data Management Summary Reports					
JD1903	OHM CORP., MIDWEST REGIONAL OF	005517	S 754.2	891109	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	ND	1.15	ND
Aroclor 1221	ND	1.15	ND
Aroclor 1232	ND	1.15	ND
Aroclor 1242	400	1.15	ND
Aroclor 1248	ND	1.15	ND
Aroclor 1254	ND	1.15	ND
Aroclor 1260	ND	1.15	ND

0, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Q-3366

Chain of Custody Data Required for ETC Data Management Summary Reports					
JD1901	OHM CORP., MIDWEST REGIONAL OF	005517	L 755.2	891109	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results			
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	
Aroclor 1016	ND	1.1	ND	
Aroclor 1221	ND	1.1	ND	
Aroclor 1232	ND	1.1	ND	
Aroclor 1242	236	1.1	ND	
Aroclor 1248	ND	1.1	ND	
Aroclor 1254	ND	1.1	ND	
Aroclor 1260	ND	1.1	ND	

NOv 30, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

B-3381

Chain of Custody Data Required for ETC Data Management Summary Reports					
JD1906	OHM CORP., MIDWEST REGIONAL OF	005517	S 756.1	891109	0
ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	2.5	ND
Aroclor 1221	ND	2.5	ND
Aroclor 1232	ND	2.5	ND
Aroclor 1242	7.15	2.5	ND
Aroclor 1248	ND	2.5	ND
Aroclor 1254	ND	2.5	ND
Aroclor 1260	ND	2.5	ND

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JD1902	OHM CORP., MIDWEST REGIONAL OF	005517	L 756.2	891109		0

Q-3366

Compound	Results		
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l
Aroclor 1016	ND	1.2	ND
Aroclor 1221	ND	1.2	ND
Aroclor 1232	ND	1.2	ND
Aroclor 1242	14.8	1.2	ND
Aroclor 1248	ND	1.2	ND
Aroclor 1254	ND	1.2	ND
Aroclor 1260	ND	1.2	ND

NOV 30, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

B-3381

Chain of Custody Data Required for ETC Data Management Summary Reports						
JD1907	OHM CORP., MIDWEST REGIONAL OF	005517	S 757.1	891109		0
ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	2.45	ND
Aroclor 1221	ND	2.45	ND
Aroclor 1232	ND	2.45	ND
Aroclor 1242	18	2.45	ND
Aroclor 1248	ND	2.45	ND
Aroclor 1254	ND	2.45	ND
Aroclor 1260	ND	2.45	ND

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Clean, colorless liquid (Decon H_2O) Drums #680 through #688
ETC SAMPLE NUMBER: 5517-747

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2.59
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.25 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours
JD1904	OHM CORP., MIDWEST REGIONAL OF	005517	S 757.2	891109	0

Q-3369

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	9.8	ND
Aroclor 1221	ND	9.8	ND
Aroclor 1232	ND	9.8	ND
Aroclor 1242	471	9.8	ND
Aroclor 1248	ND	9.8	ND
Aroclor 1254	ND	9.8	ND
Aroclor 1260	ND	9.8	ND

30, 1989

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

B-3381

Chain of Custody Data Required for ETC Data Management Summary Reports						
JD1908	OHM CORP., MIDWEST REGIONAL OF	005517	S 758	891109	0	
ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours

Compound	Results		
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg
Aroclor 1016	ND	24.9	ND
Aroclor 1221	ND	24.9	ND
Aroclor 1232	ND	24.9	ND
Aroclor 1242	358	24.9	ND
Aroclor 1248	ND	24.9	ND
Aroclor 1254	ND	24.9	ND
Aroclor 1260	ND	24.9	ND

TABLE 1: QUANTITA..VE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JD5767	OHM CORP., MIDWEST REGIONAL OF	005517	759	900118		0

Compound	Results				
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	Batch #	
oclor 1016	ND	2	ND	QC3760	
oclor 1221	ND	2	ND	QC3760	
oclor 1232	ND	2	ND	QC3760	
oclor 1242	ND	2	ND	QC3760	
oclor 1248	6.74	2	ND	QC3760	
oclor 1254	ND	2	ND	QC3760	
oclor 1260	ND	2	ND	QC3760	

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JD5768	OHM CORP., MIDWEST REGIONAL OF	005517	760	900118		0

Compound	Results				
	Sample Concen. ug/l	MDL ug/l	Blank Data ug/l	Batch #	
Aroclor 1016	ND	2	ND	QC3760	
Aroclor 1221	ND	2	ND	QC3760	
Aroclor 1232	ND	2	ND	QC3760	
Aroclor 1242	ND	2	ND	QC3760	
Aroclor 1248	88.2	2	ND	QC3760	
Aroclor 1254	ND	2	ND	QC3760	
Aroclor 1260	ND	2	ND	QC3760	

J. , 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours
JD5769	OHM CORP., MIDWEST REGIONAL OF	005517	761	900118	0

Compound	Results				
	Sample Concen. mg/kg	MDI mg/kg	Blank Data mg/kg	Batch #	
Aroclor 1016	ND	2.49	ND	QC3756	
Aroclor 1221	ND	2.49	ND	QC3756	
Aroclor 1232	ND	2.49	ND	QC3756	
Aroclor 1242	ND	2.49	ND	QC3756	
Aroclor 1248	6.02	2.49	ND	QC3756	
Aroclor 1254	ND	2.49	ND	QC3756	
Aroclor 1260	ND	2.49	ND	QC3756	

TABLE 1. QUANTITATIVE RESULTS

Jl 4, 1990

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Hours
JD5770	OHM CORP., MIDWEST REGIONAL OF	005517	762	900118		0

Compound	Results				
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg	Batch #	
Aroclor 1016	ND	2.24	ND	QC3756	
Aroclor 1221	ND	2.24	ND	QC3756	
Aroclor 1232	ND	2.24	ND	QC3756	
Aroclor 1242	ND	2.24	ND	QC3756	
Aroclor 1248	726.5	2.24	ND	QC3756	
Aroclor 1254	ND	2.24	ND	QC3756	
Aroclor 1260	ND	2.24	ND	QC3756	

J. [illegible] 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time Hours
JD5771	OHM CORP., MIDWEST REGIONAL OF	005517	763	900118	0

Compound	Results				
	Sample Concen. mg/kg	MDL mg/kg	Blank Data mg/kg	Batch #	
roclor 1016	ND	.247	ND	QC3759	
roclor 1221	ND	.247	ND	QC3759	
roclor 1232	ND	.247	ND	QC3759	
roclor 1242	ND	.247	ND	QC3759	
roclor 1248	1.7	.247	ND	QC3759	
roclor 1254	ND	.247	ND	QC3759	
roclor 1260	ND	.247	ND	QC3759	

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports					
JE2368	OHM CORP., MIDWEST REGIONAL OF	008960	779	900523	602613
ETC Sample No.	Company		Facility	Sample Point	Date	Joblink

Compound	Results			
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #
clor 1016	ND	24.9	ND	QCS0666
clor 1221	ND	24.9	ND	QCS0666
clor 1232	ND	24.9	ND	QCS0666
clor 1242	ND	24.9	ND	QCS0666
clor 1248	146	24.9	ND	QCS0666
clor 1254	ND	24.9	ND	QCS0666
clor 1260	ND	24.9	ND	QCS0666

TABLE 1: QUANTI...IVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE3141	OHM CORP., MIDWEST REGIONAL OF	008960	S 780	900609	602706

Compound	Results				
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #	
Aroclor 1016	ND	2.70	ND	QCS0713	
Aroclor 1221	ND	2.70	ND	QCS0713	
Aroclor 1232	ND	2.70	ND	QCS0713	
Aroclor 1242	ND	2.70	ND	QCS0713	
Aroclor 1248	4.87	2.70	ND	QCS0713	
Aroclor 1254	ND	2.70	ND	QCS0713	
Aroclor 1260	ND	2.70	ND	QCS0713	

TABLE 1: QUANTI..TIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports					
JE3142	OHM CORP., MIDWEST REGIONAL OF	008960	S 781	900609	602706
ETC Sample No.	Company		Facility Sample Point	Date	Joblink

Compound	Results			
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #
›clor 1016	ND	.280	ND	QCS0713
›clor 1221	ND	.280	ND	QCS0713
›clor 1232	ND	.280	ND	QCS0713
›clor 1242	ND	.280	ND	QCS0713
›clor 1248	ND	.280	ND	QCS0713
›clor 1254	ND	.280	ND	QCS0713
›clor 1260	ND	.280	ND	QCS0713

TABLE 1: QUANTI...E RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

1990

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE3143	OHM CORP., MIDWEST REGIONAL OF	008960	S 782	900609	602706

Compound	Results				
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #	
oclor 1016	ND	.272	ND	QCS0713	
oclor 1221	ND	.272	ND	QCS0713	
oclor 1232	ND	.272	ND	QCS0713	
oclor 1242	ND	.272	ND	QCS0713	
oclor 1248	2.19	.272	ND	QCS0713	
oclor 1254	ND	.272	ND	QCS0713	
oclor 1260	ND	.272	ND	QCS0713	

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE3144	OHM CORP., MIDWEST REGIONAL OF	008960	S 783	900609	602706

Compound	Results			
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #
Aroclor 1016	ND	.280	ND	QCS0713
Aroclor 1221	ND	.280	ND	QCS0713
Aroclor 1232	ND	.280	ND	QCS0713
Aroclor 1242	ND	.280	ND	QCS0713
Aroclor 1248	BDL	.280	ND	QCS0713
Aroclor 1254	ND	.280	ND	QCS0713
Aroclor 1260	ND	.280	ND	QCS0713

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE4016	OHM CORP., MIDWEST REGIONAL OF	008960	784	900616	602783

Compound	Results				
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #	
clor 1016	ND	24.1	ND	QCS0738	
clor 1221	ND	24.1	ND	QCS0738	
clor 1232	ND	24.1	ND	QCS0738	
clor 1242	ND	24.1	ND	QCS0738	
clor 1248	371	24.1	ND	QCS0738	
clor 1254	ND	24.1	ND	QCS0738	
clor 1260	ND	24.1	ND	QCS0738	

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE4017	OHM CORP., MIDWEST REGIONAL OF	008960	785	900616	602783

Compound	Results			
	Sample Concen. mg/kg	Report DL mg/kg	Blank Concen. mg/kg	Batch #
)clor 1016	ND	2.5	ND	QCS0768
)clor 1221	ND	2.5	ND	QCS0768
)clor 1232	ND	2.5	ND	QCS0768
)clor 1242	ND	2.5	ND	QCS0768
)clor 1248	9.53	2.5	ND	QCS0768
)clor 1254	ND	2.5	ND	QCS0768
)clor 1260	ND	2.5	ND	QCS0768

PCB Sampling Following Remediation

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C01

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	203 .203
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
CHM SAMPLE NUMBER: 5517-C02

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
CHM SAMPLE NUMBER: 5517-003

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	208
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil composite
THM SAMPLE NUMBER: 5517-C04

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
[illegible] 1242	BDL
[illegible] 1248	2,120 ppm
[illegible] 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
EHM SAMPLE NUMBER: 5517-005

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-C06

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,360 1.36 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
CHM SAMPLE NUMBER: 5517-007

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	5,900 5.9 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
CHM SAMPLE NUMBER: 5517-C08

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	4,480 1.45 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
THM SAMPLE NUMBER: 5517-009

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	135 .125 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
OHM SAMPLE NUMBER: 5517-010

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,940 1.94 ppm
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil composite
THM SAMPLE NUMBER: 5517-C11

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	89,700
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-C12

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
[illegible] 1242	BDL
[illegible] 1248	462 462 ppm
[illegible] 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
MM SAMPLE NUMBER: 5517-C13

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
IHM SAMPLE NUMBER: 5517-C14

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
[illegible] 1242	BDL
[illegible] 1248	662 .662 ppm
[illegible] 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water composite
CHM SAMPLE NUMBER: 5517-C15

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C16

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,530
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C17

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	10,600
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C18

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	950
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C19

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	56.9
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C20

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C21

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C22

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C23

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C24

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C25

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONT.)

SAMPLE IDENTIFIER: Liquid composite
ETC SAMPLE NUMBER: 5517-C26

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid Composite (Drums 273, 274, 275, 276, 277, 278, 279, 280)
ETC SAMPLE NUMBER: 5517-C27

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	730
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 281, 282, 283, 284, 285, 286, 287)

ETC SAMPLE NUMBER: 5517-C28

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	27.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 288, 289, 290, 291, 292, 293, 294, 295, 296)
ETC SAMPLE NUMBER: 5517-C29

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	225
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 297, 298, 299, 300, 301, 302, 303, 304, 305)
ETC SAMPLE NUMBER: 5517-C30

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	161
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 306, 307, 308, 309, 310, 311, 312, 313)
ETC SAMPLE NUMBER: 5517-C31

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	66.1
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 314, 315, 316, 317, 318, 319, 320)
ETC SAMPLE NUMBER: 5517-C32

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	332
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 321, 322, 324, 325, 326, 327)

ETC SAMPLE NUMBER: 5517-C33

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	59.9
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid Composite (Drums 335, 336
ETC SAMPLE NUMBER: 5517-C0-34

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,270
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 337, 338, 339, 340, 341, 342, 343)
ETC SAMPLE NUMBER: 5517-C0-35

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	873
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite Drums 344, 345, 349, 350, 351, 352)
ETC SAMPLE NUMBER: 5517-CC-36

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	1,040
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 346, 347)
ETC SAMPLE NUMBER: 5517-C0-37

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	2,770
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 353, 354, 355, 356, 357, 358, 359)
ETC SAMPLE NUMBER: 5517-00-38

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	498
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite (Drums 360, 361, 362, 363, 364, 365, 366)
ETC SAMPLE NUMBER: 5517-C0-39

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	763
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid Composite Drums 367, 368, 369, 370, 371, 372, 373)
ETC SAMPLE NUMBER: 5517-C0-40

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 403 & 404
ETC SAMPLE NUMBER: 5517-C41

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	150
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 402 through 411
ETC SAMPLE NUMBER: 5517-C42

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	8.99
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 412 through 419
ETC SAMPLE NUMBER: 5517-C43

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 420, 421, 422, 425, 426, 427
ETC SAMPLE NUMBER: 5517-C44

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	14.6
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 423 & 424
ETC SAMPLE NUMBER: 5517-C45

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 428 through 433
ETC SAMPLE NUMBER: 5517-C46

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	17.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Aqueous Liquid; Composite of 434 through 439
ETC SAMPLE NUMBER: 5517-C47

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	91.5
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 448, 449, 450
ETC SAMPLE NUMBER: 5517-C048

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	56.3
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 451, 452, 453, 454, 455, 456, 457, 458

ETC SAMPLE NUMBER: 5517-C049

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	57.6
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 459, 460, 461, 462, 463, 464, 465, 466, 467
ETC SAMPLE NUMBER: 5517-C050

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	62.2
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 468, 469, 470
ETC SAMPLE NUMBER: 5517-C051

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	427
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 25.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 472, 473, 474, 475, 476, 477, 478, 479, 480, 481
ETC SAMPLE NUMBER: 5517-C052

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	843
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 50.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 482, 483
ETC SAMPLE NUMBER: 5517-C053

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	86.3
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 484, 485
ETC SAMPLE NUMBER: 5517-C054

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	51.5
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of samples: 486, 487, 488, 489, 490
ETC SAMPLE NUMBER: 5517-C055

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	110
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 10.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid; Drum #453
ETC SAMPLE NUMBER: 5517-663

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.24
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Liquid; Drum #454
ETC SAMPLE NUMBER: 5517-664

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.52
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Oil; Drum #455
ETC SAMPLE NUMBER: 5517-665

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.87
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Oil; Drum #460
ETC SAMPLE NUMBER: 5517-666

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water; Drum #500
ETC SAMPLE NUMBER: 5517-686

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	9,400
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water; Drum #501
ETC SAMPLE NUMBER: 5517-687

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3,260
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water; Drum #502
ETC SAMPLE NUMBER: 5517-688

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2,390
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite From Rolloff #2604
ETC SAMPLE NUMBER: 5517-689

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,720
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Liquid; Drum #452
ETC SAMPLE NUMBER: 5517-662

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	2.05
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Northside of Drain Valve (E-303)
ETC SAMPLE NUMBER: 5517-667

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; North floor infront of Transformer (E-303)
ETC SAMPLE NUMBER: 5517-668

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	1,570
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; South side of Transformer (E-303)
ETC SAMPLE NUMBER: 5517-669

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	3.27
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; South floor infront of Transformer (E-303)
ETC SAMPLE NUMBER: 5517-670

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	20.7
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast corner of Transformer (E-501)
ETC SAMPLE NUMBER: 5517-671

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	537
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast floor infront of Transformer (E-501)
ETC SAMPLE NUMBER: 5517-672

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	394
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast side of Transformer (E-601)
ETC SAMPLE NUMBER: 5517-673

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	2,020
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southast floor infront of Transformer (E-601)
ETC SAMPLE NUMBER: 5517-674

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	164
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Travel Blank
ETC SAMPLE NUMBER: 5517-675

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Oil from Trench; Drums #461 - #463
ETC SAMPLE NUMBER: 5517-676

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	11.0
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Soil; Rolloff #2642
ETC SAMPLE NUMBER: 5517-677

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	662
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 35.0 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; EB 303 Floor
ETC SAMPLE NUMBER: 5517-693

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	9,680
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Travel Blank
ETC SAMPLE NUMBER: 5517-696

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water: Drum #503
ETC SAMPLE NUMBER: 5517-697

Compound	Concentration (ug/L)
Arcclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1016/1242	72.8
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water Composite; (Drums #545 and #546) Trench East end, North wall
ETC SAMPLE NUMBER: 5517-703

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	187
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water Composite; (Drums #547 and #549) Trench West end, North wall
ETC SAMPLE NUMBER: 5517-704

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	79.1
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Decon Water (Decon Split Spoons)
ETC SAMPLE NUMBER: 5517-705

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	244
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE [illegible] NON-VOLATILE PCBs BY GC ANALYSIS

[illegible] Composite from Aliquot #2051
SAMPLE NUMBER: 5517-707

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.49
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

[illegible] Parts-per-million
BDL = Below Detection Limit

PROJECT 5517

SEMI-VOLATILE ECBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe: E601-: Floor
ETC SAMPLE NUMBER: 5517-708

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection: ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe: E501-3 Side of Transformer
ETC SAMPLE NUMBER: 5517-709

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE [illegible] SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe, [illegible] Floor
ETC SAMPLE NUMBER: 5517-[illegible]

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = [illegible] ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE [illegible] SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe: [illegible]-B Travel Blank
ETC SAMPLE NUMBER: 5517-711

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = [illegible] ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE [illegible] SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drums #516 - #544: Trench Water East End South Wall

ETC SAMPLE NUMBER: 5517-712

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	73.9
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = [illegible] ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Composite of Drums #577, #585 - #590, & #620; Oil and Sand from East Pit
ETC SAMPLE NUMBER: 5517-736

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4.11
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drums #591 - #600; Water from East Trench
ETC SAMPLE NUMBER: 5517-737

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	19.4
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drums #622 - #625; Sand and Oil from West Pit
ETC SAMPLE NUMBER: 5517-738

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drums #617, #627, #647, #648, & #671; Water and Light Oil
ETC SAMPLE NUMBER: 5517-739

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	193
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 2.5 mg/Kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Light Brown Liquid (Water) Composite of Drums #601 through #604
ETC SAMPLE NUMBER: 5517-740

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	9.47
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Light Brown Liquid (Water) Composite of Drums #605 through #608
ETC SAMPLE NUMBER: 5517-741

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3.13
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Light Brown/Grey Liquid (Water) Composite of Drums #609 through #611
ETC SAMPLE NUMBER: 5517-742

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.58
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Grey Liquid (Water) Composite of Drums #612 through #614
ETC SAMPLE NUMBER: 5517-743

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.42
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Brown Liquid (Oil) Composite of Drums #632 through #634
ETC SAMPLE NUMBER: 5517-744B

Compound	Concentration (mg/kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	36.1
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 2.5 mg/kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Light Grey Liquid (Water) Composite of Drums #635 through #637
ETC SAMPLE NUMBER: 5517-745A

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	3.45
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Brown Liquid (Oil) Composite of Drums #635 through #637
ETC SAMPLE NUMBER: 5517-745B

Compound	Concentration (mg/kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	30.7
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 2.5 mg/kg ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Yellow Liquid (Water) Drum #630
ETC SAMPLE NUMBER: 5517-746

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	19.5
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, Composite of 527 through 531
ETC SAMPLE NUMBER: 5517-C57

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	11,300
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, Composite of 532 through 536
ETC SAMPLE NUMBER: 5517-C58

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	83.7
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, Composite of 552 through 555
ETC SAMPLE NUMBER: 5517-C59

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	320
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, Composite of 390 through 398
ETC SAMPLE NUMBER: 5517-C60

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	327
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Composite of 556 - 570
ETC SAMPLE NUMBER: 5571-C61

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	70,700
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 5,000 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of 571 - 574
ETC SAMPLE NUMBER: 5571-C62

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1,860
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 500 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drum 420 and Drum Drum 421
ETC SAMPLE NUMBER: 5517-C63

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	226
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 20.0 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Composite of Drum 419, Drum 422, and Drum 424
ETC SAMPLE NUMBER: 5517-C64

Compound	Concentration (mg/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.050
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.01 mg/L ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - INCINERATION DISPOSAL ANALYSIS

SAMPLE IDENTIFIER: Solid composite
ETC SAMPLE NUMBER: 5517-SC-01

Parameter	Result
pH	5.7 pH units
Density	1.32 gm/cm^3
Flash Point, SF, CC	>95°C
BTU Content	2,010 BTU/lb
Ash Content	35.5% by weight
Chlorine Content	0.63% by weight
Sulfur Content	0.18% by weight
Total Solids	80.4% by weight
Percent Free Liquids	None observed

PROJECT 5517

TABLE 2 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-SC-01

Compound	Concentration (mg/Kg)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4,170
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 3 - TOTAL METALS FOR INCINERATION DISPOSAL

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-SC-01

Compound Name	Concentration mg/Kg	Detection Limit mg/Kg
Arsenic	2.76	1.0
Barium	73.3	1.0
Cadmium	1.08	1.0
Chromium (Total)	19.9	1.0
Copper	46.3	1.0
Iron	7,280	1.0
Lead	47.4	1.0
Mercury	BDL	0.2
Nickel	5.10	1.0
Potassium	965	1.0
Selenium	BDL	1.0
Sodium	268	1.0
Zinc	210	1.0

mg/Kg = ppm (parts-per-million)
BDL = Below Detection Limit

PROJECT 5517

TABLE 4 - TEST BULKING RESULTS

SAMPLE IDENTIFIER: Soil composite
OHM SAMPLE NUMBER: 5517-SC-01

Test Bulking Parameters	
Date of Test Bulk:	12-23-87
Samples Bulked:	C04, C11, C12
Temperature Rise:	< 2.0°C
Gas Evolved:	None observed
Precipitate:	None observed
Gelling or Solidification:	None observed

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T001

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	1.51
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T002

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.241
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T003

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	4.21
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T004

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	16.4
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T005

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T006

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T007

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T008

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Clean Pool
ETC SAMPLE NUMBER: 5517-T009

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Raw Dirty Drum
ETC SAMPLE NUMBER: 5517-T010

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	509,000
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Drum - Klensorb
ETC SAMPLE NUMBER: 5517-T011

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	0.50
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Treated Drum - Carbon
ETC SAMPLE NUMBER: 5517-T012

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water, pool after filtering
ETC SAMPLE NUMBER: 5517-T0013

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Water
ETC SAMPLE NUMBER: 5517-T0025

Compound	Concentration (ug/L)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 0.1 ug/L ppb (parts-per-billion)
BDL = Below Detection Limit

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1599	OHM CORPORATION MICHIGAN DIVIS	008960	C1500	900521	602568

Compound	Results				
	Sample Concen. ug/L	Report DL ug/L	Blank Concen. ug/L	Batch #	
Aroclor 1016	ND	1.2	ND	QCS0674	
Aroclor 1221	ND	1.2	ND	QCS0674	
Aroclor 1232	ND	1.2	ND	QCS0674	
Aroclor 1242	ND	1.2	ND	QCS0674	
Aroclor 1248	5.93	1.2	ND	QCS0674	
Aroclor 1254	ND	1.2	ND	QCS0674	
Aroclor 1260	ND	1.2	ND	QCS0674	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

CONVENTIONAL DATA (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1599	OHM CORPORATION MICHIGAN DIVIS	008960	C1500	900521	602568

Compound	Results				
	Sample Concen. mg/L	Report DL mg/L	Blank Concen. mg/L	Batch #	
Oil and Grease	7460	5.00	ND	QRE01205	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1600	OHM CORPORATION MICHIGAN DIVIS	008960	C1501	900521	602568

Compound	Results				
	Sample Concen. ug/L	Report DL ug/L	Blank Concen. ug/L	Batch #	
Aroclor 1016	ND	85	ND	QCS0674	
Aroclor 1221	ND	85	ND	QCS0674	
Aroclor 1232	ND	85	ND	QCS0674	
Aroclor 1242	ND	85	ND	QCS0674	
Aroclor 1248	388	85	ND	QCS0674	
Aroclor 1254	ND	85	ND	QCS0674	
Aroclor 1260	ND	85	ND	QCS0674	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

CONVENTIONAL DATA (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1600	OHM CORPORATION MICHIGAN DIVIS	008960	C1501	900521	602568

Compound	Results				
	Sample Concen. mg/L	Report DL mg/L	Blank Concen. mg/L	Batch #	
Oil and Grease	3540	5.00	ND	QRE01205	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1601	OHM CORPORATION MICHIGAN DIVIS	008960	C1502	900521	602568

Compound	Results				
	Sample Concen. ug/L	Report DL ug/L	Blank Concen. ug/L	Batch #	
Aroclor 1016	ND	1.2	ND	QCS0674	
Aroclor 1221	ND	1.2	ND	QCS0674	
Aroclor 1232	ND	1.2	ND	QCS0674	
Aroclor 1242	ND	1.2	ND	QCS0674	
Aroclor 1248	17.2	1.2	ND	QCS0674	
Aroclor 1254	ND	1.2	ND	QCS0674	
Aroclor 1260	ND	1.2	ND	QCS0674	

TABLE 1: QUANTITATIVE RESULTS

CONVENTIONAL DATA (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1601	OHM CORPORATION MICHIGAN DIVIS	008960	C1502	900521	602568

Compound	Results				
	Sample Concen. mg/L	Report DL mg/L	Blank Concen. mg/L	Batch #	
Oil and Grease	ND	5.00	ND	QRE01205	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1602	OHM CORPORATION MICHIGAN DIVIS	008960	C1503	900521	602568

Compound	Results				
	Sample Concen. ug/L	Report DL ug/L	Blank Concen. ug/L	Batch #	
Aroclor 1016	ND	1.2	ND	QCS0674	
Aroclor 1221	ND	1.2	ND	QCS0674	
Aroclor 1232	ND	1.2	ND	QCS0674	
Aroclor 1242	ND	1.2	ND	QCS0674	
Aroclor 1248	11.7	1.2	ND	QCS0674	
Aroclor 1254	ND	1.2	ND	QCS0674	
Aroclor 1260	ND	1.2	ND	QCS0674	

TABLE 1: QUANTITATIVE RESULTS

CONVENTIONAL DATA (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1602	OHM CORPORATION MICHIGAN DIVIS	008960	C1503	900521	602568

Compound	Results				
	Sample Concen. mg/L	Report DL mg/L	Blank Concen. mg/L	Batch #	
Oil and Grease	ND	5.00	ND	QRE01205	

MAY 23, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1603	OHM CORPORATION MICHIGAN DIVIS	008960	C1504	900521	602568

Compound	Results				
	Sample Concen. ug/L	Report DL ug/L	Blank Concen. ug/L	Batch #	
Aroclor 1016	ND	1.2	ND	QCS0674	
Aroclor 1221	ND	1.2	ND	QCS0674	
Aroclor 1232	ND	1.2	ND	QCS0674	
Aroclor 1242	ND	1.2	ND	QCS0674	
Aroclor 1248	9.74	1.2	ND	QCS0674	
Aroclor 1254	ND	1.2	ND	QCS0674	
Aroclor 1260	ND	1.2	ND	QCS0674	

TABLE 1: QUANTITATIVE RESULTS

CONVENTIONAL DATA (QR10)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE1603	OHM CORPORATION MICHIGAN DIVIS	008960	C1504	900521	602568

Compound	Results				
	Sample Concen. mg/L	Report DL mg/L	Blank Concen. mg/L	Batch #	
Oil and Grease	127	5.00	ND	QRE01205	

Appendix 9.12
Available Laboratory Analytical Data
6/17/87 PCB Leaks

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

October 9, 1987

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wipe Aroclor 1260
26168	E303 Floor Southside of Tranformer Cooling Fin	<10	--	775
26169	E303 North Drain Valve	<50	--	1020
26170	E501 Southeast Corner of Transformer	<10	--	90
26171	E601 Floor Southwest Side of Transformer	<25	--	810
26172	E701 Concrete Floor South Side of Transformer	<10	--	<10
26173	A1 and CB3 Northwest Corner of Transformer Tacky Material	<10	--	<10
26174	Blank	<10	--	<10

Q/lr

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

October 9, 1987

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wip Aroclor 126
26168	E303 Floor Southside of Tranformer Cooling Fin	<10	--	775
26169	E303 North Drain Valve	<50	--	1020
26170	E501 Southeast Corner of Transformer	<10	--	90
26171	E601 Floor Southwest Side of Transformer	<25	--	810
26172	E701 Concrete Floor South Side of Transformer	<10	--	<10
26173	A1 and CB3 Northwest Corner of Transformer Tacky Material	<10	--	<10
26174	Blank	<10	--	<10

Q/lr

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
Attn: Bob Offenborn

October 9, 1987

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wipe Aroclor 1260
26166	#21 Mold Line Concrete Floor Within Dike	<10	--	<10
26167	#21 Mold Line Concrete Floor Within Dike Duplicate	<10	--	<10

Susan K. Scott
Laboratory Supervisor

Q/2r

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E501 Floor
ETC SAMPLE NUMBER: 5517-695

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	51.0
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E501-3 Side of Transformer
ETC SAMPLE NUMBER: 5517-709

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E501-3 Floor
ETC SAMPLE NUMBER: 5517-710

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E501-3-B Travel Blank
ETC SAMPLE NUMBER: 5517-711

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

February 15, 1988

P.O.# F708471

PROGRAM: WIPE SAMPLES

Date Received: 1-12-88

ALD Number	Client I.D.	Total PCB's, ug/wipe
32347	E 303 1-11-88 North Side of Transformer	27
32348	E 601 1-11-88 Southwest Side of Transformer	7500
32906	303	320
32907	501	270

Susan K. Scott
Laboratory Supervisor

Misc/lr

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast corner of Transformer (E-501)
ETC SAMPLE NUMBER: 5517-671

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	537
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast floor infront of Transformer (E-501)
ETC SAMPLE NUMBER: 5517-672

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	394
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS

SAMPLE IDENTIFIER: Wipe; E-501W Transformer
ETC SAMPLE NUMBER: 5517-678

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-501W Floor
ETC SAMPLE NUMBER: 5517-679

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-303 South Side Fin
ETC SAMPLE NUMBER: 5517-682

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-303 South Side Floor
ETC SAMPLE NUMBER: 5517-684

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-306 North Side Drain Valve
ETC SAMPLE NUMBER: 5517-683

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E303 Fin
ETC SAMPLE NUMBER: 5517-692

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E306 Floor
ETC SAMPLE NUMBER: 5517-694

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Northside of Drain Valve (E-303)
ETC SAMPLE NUMBER: 5517-667

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; South side of Transformer (E-303)
ETC SAMPLE NUMBER: 5517-669

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	3.27
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

October 9, 1987

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wipe Aroclor 1260
26168	E303 Floor Southside of Tranformer Cooling Fin	<10	--	775
26169	E303 North Drain Valve	<50	--	1020
26170	E501 Southeast Corner of Transformer	<10	--	90
26171	E601 Floor Southwest Side of Transformer	<25	--	810
26172	E701 Concrete Floor South Side of Transformer	<10	--	<10
26173	A1 and CB3 Northwest Corner of Transformer Tacky Material	<10	--	<10
26174	Blank	<10	--	<10

Q/lr

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

October 9, 1987

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wipe Aroclor 1260
26168	E303 Floor Southside of Tranformer Cooling Fin	<10	--	775
26169	E303 North Drain Valve	<50	--	1020
26170	E501 Southeast Corner of Transformer	<10	--	90
26171	E601 Floor Southwest Side of Transformer	<25	--	810
26172	E701 Concrete Floor South Side of Transformer	<10	--	<10
26173	A1 and CB3 Northwest Corner of Transformer Tacky Material	<10	--	<10
26174	Blank	<10	--	<10

Q/lr

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

February 15, 1988

P.O.# F708471

PROGRAM: WIPE SAMPLES

Date Received: 1-12-88

ALD Number	Client I.D.	Total PCB's, ug/wipe
32347	E 1303 1-11-88 North Side of Transformer	27
32348	E 601 1-11-88 Southwest Side of Transformer	7500
32906	303	320
32907	501	270

Susan K. Scott
Laboratory Supervisor

Misc/lr

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southeast (west) side of Transformer (E-601)
ETC SAMPLE NUMBER: 5517-673

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	2,020
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; Southast floor infront of Transformer (E-601)
ETC SAMPLE NUMBER: 5517-674

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	164
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-601 Transformer
ETC SAMPLE NUMBER: 5517-680

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E-601 Floor
ETC SAMPLE NUMBER: 5517-681

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 100 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E601 Transformer side
ETC SAMPLE NUMBER: 5517-690

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E601 Floor
ETC SAMPLE NUMBER: 5517-691

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	67.6
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

PROJECT 5517

TABLE 1 - SEMI-VOLATILE PCBS BY GC ANALYSIS (CONTINUED)

SAMPLE IDENTIFIER: Wipe; E601-3 Floor
ETC SAMPLE NUMBER: 5517-708

Compound	Concentration (ug/Wipe)
Aroclor 1016	BDL
Aroclor 1221	BDL
Aroclor 1232	BDL
Aroclor 1242	BDL
Aroclor 1248	BDL
Aroclor 1254	BDL
Aroclor 1260	BDL
Aroclor 1262	BDL
Aroclor 1268	BDL

Limit of Detection = 1.0 ug/Wipe
BDL = Below Detection Limit

Appendix 9.13
Available Laboratory Analytical Data
E701 PCB Leak

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, MI 48058
313/334-4747

October 9, 1987

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
1629 N. Washington Avenue
Saginaw, MI 48605-5073
Attn: Bob Offenborn

P.O. #F708471

Sample Received: 8-31-87

Sample Number	Client I.D.	PCB's, ug/wipe Aroclor 1242	PCB's, ug/wipe Aroclor 1254	PCB's, ug/wipe Aroclor 1260
26168	E303 Floor Southside of Tranformer Cooling Fin	<10	--	775
26169	E303 North Drain Valve	<50	--	1020
26170	E501 Southeast Corner of Transformer	<10	--	90
26171	E601 Floor Southwest Side of Transformer	<25	--	810
26172	E701 Concrete Floor South Side of Transformer	<10	--	<10
26173	A1 and CB3 Northwest Corner of Transformer Tacky Material	<10	--	<10
26174	Blank	<10	--	<10

APP 20, 1990

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JE0122	OHM CORP., MIDWEST REGIONAL OF	005517	001	900418	602331

Compound	Results				
	Sample Concen. ug/W	Report DL ug/W	Blank Concen. ug/W	Batch #	
Aroclor 1016	ND	100	ND	QC4229	
Aroclor 1221	ND	100	ND	QC4229	
Aroclor 1232	ND	100	ND	QC4229	
Aroclor 1242	ND	100	ND	QC4229	
Aroclor 1248	ND	100	ND	QC4229	
Aroclor 1254	ND	100	ND	QC4229	
Aroclor 1260	568	100	ND	QC4229	

TABLE 1: QUANTITATIVE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JD9943	OHM CORP., MIDWEST REGIONAL OF	005517	001	900409	602281

Compound	Results				
	Sample Concen. ug/W	Report DL ug/W	Blank Concen. ug/W	Batch #	
Aroclor 1016	ND	1.0	ND	B4192	
Aroclor 1221	ND	1.0	ND	B4192	
Aroclor 1232	ND	1.0	ND	B4192	
Aroclor 1242	ND	1.0	ND	B4192	
Aroclor 1248	ND	1.0	ND	B4192	
Aroclor 1254	ND	1.0	ND	B4192	
Aroclor 1260	4.23	1.0	ND	B4192	

APR 13, 1990

TABLE 1: QUANTIT/ :VE RESULTS

AROCLORS/PCB COMPOUNDS - GC ANALYSIS (JR14)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Joblink
JD9944	OHM CORP., MIDWEST REGIONAL OF	005517	002	900409	602281

Compound	Results			
	Sample Concen. ug/W	Report DL ug/W	Blank Concen. ug/W	Batch #
Aroclor 1016	ND	100	ND	B4192
Aroclor 1221	ND	100	ND	B4192
Aroclor 1232	ND	100	ND	B4192
Aroclor 1242	ND	100	ND	B4192
Aroclor 1248	ND	100	ND	B4192
Aroclor 1254	ND	100	ND	B4192
Aroclor 1260	378	100	ND	B4192

Appendix 9.14
Available Laboratory Analytical Data
7/16/92 Diesel Fuel Release

SUMMARY TABLE OF ANALYTICAL LABORATORY TESTING RESULTS FOR SOIL SAMPLES

Diesel Fuel Spill from Train Locomotive
Saginaw Grey Iron Plant
Saginaw, Michigan
GTL JOB NO. E-1117

COMPOUNDS *	TYPE A THRESHOLD	TYPE B THRESHOLD	SAMPLE NUMBERS S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9
Benzene	10	20	<10	<10	<10	<10	<10	<10	<10	<10	10
Toluene	10	16000	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	1400	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Xylenes	30	6000	<30	<30	<30	<30	<30	<30	<30	<30	<30
Napthalene	330	600	<330	<330	340	<330	460	540	<330	<330	<330
Acenapthylene	330	#	<330	<330	<330	<330	<330	<330	700 @	<330	<330
Acenapthene	330	8000	<330	<330	<330	<330	<330	700	<330	<330	<330
Fluorene	330	6000	<330	<330	<330	<330	1000	2300	1200	<330	<330
Phenanthrene	330	#	<330	<330	<330	<330	1000 @	1500 @	1900 @	<330	<330
Anthracene	330	40000	540	360	<330	<330	<330	830	780	<330	<330
Fluoranthene	330	6000	570	370	<330	2900	<330	1500	970	360	<330
Pyrene	330	4000	640	370	<330	3300	<330	1900	2300	500	<330
Benzo (A) Anthracene	330	200	<330	<330	<330	880 @	<330	<330	<330	<330	<330
Chrysene	330	200	<330	<330	<330	720 @	<330	<330	<330	<330	<330
Benzo (b) Fluoranthene	330	200	<330	<330	<330	1600 @	<330	520 @	<330	<330	<330
Benzo (k) Fluoranthene	330	200	<330	<330	<330	<330	<330	<330	<330	<330	<330
Benzo (a) Pyrene	330	200	<330	<330	<330	2000 @	<330	740 @	460 @	<330	<330
Dibenzo (a,h) Anthracene	330	200	<330	<330	<330	<330	<330	<330	<330	<330	<330
Benzo (g,h,i) Perylene	330	#	<330	<330	<330	940 @	<330	<330	<330	<330	<330
Indeno (1,2,3,-c,d) Pyrene	330	200	<330	<330	<330	1100 @	<330	<330	<330	<330	<330

NOTE: Concentration above detection level.

** NOTE: Compound concentrations measure in micrograms per kilograms (ug/Kg) or parts per billion (ppb).*

 # NOTE: No established Type B threshold value.

@ NOTE: Value exceeds Type B threshold value.

Appendix 9.15
Available Laboratory Analytical Data
Railroad Tracks West Of The Cupola Cooling Tower

ANATECH

Analytical Laboratories

Revised Report

Lab I.D. :	35568
Report Date :	12/15/1993
Project :	SG1 Tank 10 #5672
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario N2V IC2
Attention :	Mr. Mike Tomka

5 pages including cover sheet

ANATECH
Analytical Laboratories

SB-1

Conestoga Rovers & Associates

Sample:	35568-3246	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-001	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	14	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	8900	ug/kg	3300	SW-846 Mtd. 8270	12/12/1993 RJW
Benzo (a) Pyrene	6500	ug/kg	3300	"	12/12/1993 RJW
Benzo (b) Fluoranthene	5800	ug/kg	3300	"	12/12/1993 RJW
Benzo (g,h,i) Perylene	4400	ug/kg	3300	"	12/12/1993 RJW
Benzo (k) Fluoranthene	5800	ug/kg	3300	"	12/12/1993 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	3300	"	12/12/199 W
Indeno (1,2,3-cd) Pyrene	4400	ug/kg	3300	"	12/12/199
Naphthalene	ND	ug/kg	3300	"	12/12/1993 RJW
Acenaphthene	ND	ug/kg	3300	"	12/12/1993 RJW
Acenaphthylene	ND	ug/kg	3300	"	12/12/1993 RJW
Fluorene	ND	ug/kg	3300	"	12/12/1993 RJW
Phenanthrene	8400	ug/kg	3300	"	12/12/1993 RJW
Anthracene	5600	ug/kg	3300	"	12/12/1993 RJW
Fluoranthene	23,000	ug/kg	3300	"	12/12/1993 RJW
Pyrene	21,000	ug/kg	3300	"	12/12/1993 RJW
Chrysene	8600	ug/kg	3300	"	12/12/1993 RJW
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

ANATECH
Analytical Laboratories

Conestoga Rovers & Associates

SB-2

Sample:	35568-3247	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-002	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	ND	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	1400	ug/kg	330	SW-846 Mtd. 8270	12/14/1993 JA
Benzo (a) Pyrene	ND	ug/kg	330	"	12/14/1993 JA
Benzo (b) Fluoranthene	870	ug/kg	330	"	12/14/1993 JA
Benzo (g,h,i) Perylene	600	ug/kg	330	"	12/14/1993 JA
Benzo (k) Fluoranthene	1200	ug/kg	330	"	12/14/1993 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Indeno (1,2,3-cd) Pyrene	700	ug/kg	330	"	12/14/1993 JA
Naphthalene	ND	ug/kg	330	"	12/14/1993 JA
Acenaphthene	ND	ug/kg	330	"	12/14/1993 JA
Acenaphthylene	ND	ug/kg	330	"	12/14/1993 JA
Fluorene	ND	ug/kg	330	"	12/14/1993 JA
Phenanthrene	1000	ug/kg	330	"	12/14/1993 JA
Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Fluoranthene	2400	ug/kg	330	"	12/14/1993 JA
Pyrene	5500	ug/kg	330	"	12/14/1993 JA
Chrysene	1200	ug/kg	330	"	12/14/1993 JA
Semi Volatile Extraction	-	-	-	"	12/14/1993 JA
					12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

ANATECH
Analytical Laboratories

SB-3

Conestoga Rovers & Associates

Sample:	35568-3248	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-003	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	13	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	32	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	12/12/1993 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	12/12/1993 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/12/199[redacted]W
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	12/12/19[redacted]V
Naphthalene	ND	ug/kg	330	"	12/12/1993 RJW
Acenaphthene	ND	ug/kg	330	"	12/12/1993 RJW
Acenaphthylene	ND	ug/kg	330	"	12/12/1993 RJW
Fluorene	ND	ug/kg	330	"	12/12/1993 RJW
Phenanthrene	ND	ug/kg	330	"	12/12/1993 RJW
Anthracene	ND	ug/kg	330	"	12/12/1993 RJW
Fluoranthene	ND	ug/kg	330	"	12/12/1993 RJW
Pyrene	ND	ug/kg	330	"	12/12/1993 RJW
Chrysene	ND	ug/kg	330	"	12/12/1993 RJW
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

ANATECH
Analytical Laboratories

SB-4

Conestoga Rovers & Associates

Sample:	35568-3249	Matrix:	Soil / Grab
Client Sample:	5.120393-MRT-004	Location:	
COLLECTED:	12/03/1993 :	Project:	SG1 Tank 10 #5672
RECEIVED:	12/06/1993 17:46	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
VOLATILE AROMATIC HYDRO.					
Benzene	ND	ug/kg	10	SW-846 Mtd. 8020	12/10/1993 EE
Toluene	ND	ug/kg	10	"	12/10/1993 EE
Ethylbenzene	ND	ug/kg	10	"	12/10/1993 EE
Xylenes (Total)	ND	ug/kg	30	"	12/10/1993 EE
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	2600	ug/kg	330	SW-846 Mtd. 8270	12/14/1993 JA
Benzo (a) Pyrene	1500	ug/kg	330	"	12/14/1993 JA
Benzo (b) Fluoranthene	1800	ug/kg	330	"	12/14/1993 JA
Benzo (g,h,i) Perylene	1100	ug/kg	330	"	12/14/1993 JA
Benzo (k) Fluoranthene	1700	ug/kg	330	"	12/14/1993 JA
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	12/14/1993 JA
Indeno (1,2,3-cd) Pyrene	1200	ug/kg	330	"	12/14/1993 JA
Naphthalene	360	ug/kg	330	"	12/14/1993 JA
Acenaphthene	540	ug/kg	330	"	12/14/1993 JA
Acenaphthylene	ND	ug/kg	330	"	12/14/1993 JA
Fluorene	580	ug/kg	330	"	12/14/1993 JA
Phenanthrene	5300	ug/kg	330	"	12/14/1993 JA
Anthracene	1200	ug/kg	330	"	12/14/1993 JA
Fluoranthene	4600	ug/kg	330	"	12/14/1993 JA
Pyrene	8700	ug/kg	330	"	12/14/1993 JA
Chrysene	2000	ug/kg	330	"	12/14/1993 JA
Semi Volatile Extraction	-	-	-	"	12/09/1993 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 12/13/1993
Revised : 12/15/1993

Attachment C-2

March 16-17, 1994

ANATECH

Analytical Laboratories

Field Off.

APR - 6 [illegible]

Analytical Report

Lab I.D. :	41275
Report Date :	03/28/1994
Project :	Railroad Track #5838
Client :	Conestoga Rovers & Associates
	651 Colby Drive
	Waterloo, Ontario N2V IC2
Attention :	Mr. Michael Tomka

6 pages including cover sheet

Conestoga Rovers & Associates

SB-

Sample:	41275-4751	Matrix:	Soil / Grab
Client Sample:	S-031694-MRT.001	Location:	
COLLECTED:	03/16/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	ND	ug/kg	330	"	03/25/199
Anthracene	ND	ug/kg	330	"	03/25/199
Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Chrysene	ND	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

SB-6

Conestoga Rovers & Associates

Sample:	41275-4752	Matrix:	Soil / Grab
Client Sample:	S-031694-MRT.002	Location:	
COLLECTED:	03/16/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	ND	ug/kg	330	"	03/25/1994 RJW
Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Chrysene	ND	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

SB-7

Conestoga Rovers & Associates

Sample:	41275-4753	Matrix:	Soil / Grab
Client Sample:	S-031794-MRT.003	Location:	
COLLECTED:	03/17/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	430	ug/kg	330	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	330	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	330	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	330	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	330	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	330	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	330	"	03/25/1994 RJW
Fluorene	ND	ug/kg	330	"	03/25/1994 RJW
Phenanthrene	570	ug/kg	330	"	03/25/1994 RJW
Anthracene	ND	ug/kg	330	"	03/25/1994
Fluoranthene	600	ug/kg	330	"	03/25/1994 RJW
Pyrene	580	ug/kg	330	"	03/25/1994 RJW
Chrysene	530	ug/kg	330	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

SB-8

Conestoga Rovers & Associates

Sample:	41275-4754	Matrix:	Soil / Grab
Client Sample:	S-031794-MRT.004	Location:	
COLLECTED:	03/17/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/kg	830	SW-846 Mtd. 8270	03/25/1994 RJW
Benzo (a) Pyrene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (b) Fluoranthene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/kg	830	"	03/25/1994 RJW
Benzo (k) Fluoranthene	ND	ug/kg	830	"	03/25/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/kg	830	"	03/25/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/kg	830	"	03/25/1994 RJW
Naphthalene	ND	ug/kg	830	"	03/25/1994 RJW
Acenaphthene	ND	ug/kg	830	"	03/25/1994 RJW
Acenaphthylene	ND	ug/kg	830	"	03/25/1994 RJW
Fluorene	ND	ug/kg	830	"	03/25/1994 RJW
Phenanthrene	1000	ug/kg	830	"	03/25/1994 RJW
Anthracene	ND	ug/kg	830	"	03/25/1994 RJW
Fluoranthene	1200	ug/kg	830	"	03/25/1994 RJW
Pyrene	980	ug/kg	830	"	03/25/1994 RJW
Chrysene	ND	ug/kg	830	"	03/25/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/22/1994 SJ

LODs are elevated because of the presence of other compounds.

ND - Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

ANATECH
Analytical Laboratories

MW-1

Conestoga Rovers & Associates

Sample:	41275-4755	Matrix:	Water / Grab
Client Sample:	W-031394-MRT.005	Location:	
COLLECTED:	03/13/1994 :	Project:	Railroad Track #5838
RECEIVED:	03/18/1994 12:57	Sampled By:	M Tomka

Test Description	Result	Unit	Detection Limit	Method	Date/Analyst
POLYNUCLEAR AROMATIC HYDRO.					
Benzo (a) Anthracene	ND	ug/L	5	SW-846 Mtd. 8270	03/23/1994 RJW
Benzo (a) Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (b) Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (g,h,i) Perylene	ND	ug/L	5	"	03/23/1994 RJW
Benzo (k) Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Dibenzo (a,h) Anthracene	ND	ug/L	5	"	03/23/1994 RJW
Indeno (1,2,3-cd) Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Naphthalene	ND	ug/L	5	"	03/23/1994 RJW
Acenaphthene	ND	ug/L	5	"	03/23/1994 RJW
Acenaphthylene	ND	ug/L	5	"	03/23/1994 RJW
Fluorene	ND	ug/L	5	"	03/23/1994 RJW
Phenanthrene	ND	ug/L	5	"	03/23/1994
Anthracene	ND	ug/L	5	"	03/23/1994
Fluoranthene	ND	ug/L	5	"	03/23/1994 RJW
Pyrene	ND	ug/L	5	"	03/23/1994 RJW
Chrysene	ND	ug/L	5	"	03/23/1994 RJW
Semi Volatile Extraction	-	-	-	"	03/18/1994 SJ

ND = Non Detectable

Laboratory Manager

C. David Hainer

Reported : 03/28/1994

Appendix 9.16
Available Laboratory Analytical Data
5/17/94 PCB Fluid Encountered

APPENDIX A

DATA SUMMARY REPORT

NOTE: The Tentatively Identified Volatile (GC/MS) Screen result(s), if applicable, is included in Appendix B.

DATA SUMMARY REPORT

DATE: 11/14/94

PAGE: 1

Company: NAO DISB POWERTRAIN CASTING OPER

Sample Point ID:	**PURGE-EFF**
ASC Sample Number:	JN4562
Sample Date:	941107
Facility Code:	300534

Parameters	Units	
Priority Pollutant PCB Analysis, GC, (GS13)		
Aroclor 1016	mg/L	<.055
Aroclor 1221	mg/L	<.055
Aroclor 1232	mg/L	<.055
Aroclor 1242	mg/L	.142
Aroclor 1248	mg/L	<.055
Aroclor 1254	mg/L	<.055
Aroclor 1260	mg/L	<.055

APPENDIX B

QUANTITATIVE RESULTS

PRIORITY POLLUTANT PCB ANALYSIS, GC, (GS13)

Company Name	Facility	Sample Point	ASC Sample No.
NAO DISB POWERTRAIN CASTING OPER	300534	PURGE-EFF	JN4562

Compounds	Sample Results mg/L	Detection Limits mg/L	Blank Results mg/L	Batch Number
Aroclor 1016	ND	.055	ND	P1P41657
Aroclor 1221	ND	.055	ND	P1P41657
Aroclor 1232	ND	.055	ND	P1P41657
Aroclor 1242	.142	.055	ND	P1P41657
Aroclor 1248	ND	.055	ND	P1P41657
Aroclor 1254	ND	.055	ND	P1P41657
Aroclor 1260	ND	.055	ND	P1P41657

General Motors Corporation-Saginaw

Sample #: L9902-1 (Project)

Description : B.P. PIT #7

Collected: 06-MAY-94 Matrix: 2phaseliq Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Reactive Cyanide	ND	10	mg/kg	10	7.3.3.2
Flashpoint	ND	200	degrees F	200	7.1
pH	7.6	.1	Units	.1	7.2
Reactive Sulfide	ND	10	mg/kg	10	7.3.4.1
F001 SERIES					
Tetrachloroethene	ND	500	ug/l	1	8240
Trichloroethene	ND	500	ug/l	1	8240
Methylene chloride	ND	500	ug/l	1	8240
1,1,1-Trichloroethane	1300	500	ug/l	1	8240
Carbon Tetrachloride	ND	500	ug/l	1	8240
Chlorobenzene	ND	500	ug/l	1	8240
PCB					
PCB-1016	ND	5	mg/kg	1	8080
PCB-1221	ND	5	mg/kg	1	8080
PCB-1232	ND	5	mg/kg	1	8080
PCB-1242	99	5	mg/kg	1	8080
PCB-1248	ND	5	mg/kg	1	8080
PCB-1254	ND	5	mg/kg	1	8080
PCB-1260	ND	5	mg/kg	1	8080
TCLP METALS					
TCLP Arsenic	ND	2.7	mg/l	2.7	6010
TCLP Barium	.929	.5	mg/l	.5	6010
TCLP Cadmium	ND	.2	mg/l	.2	6010
TCLP Chromium	ND	.4	mg/l	.4	6010
TCLP Copper	1.99	.5	mg/l	.5	6010
TCLP Lead	4.1	2.1	mg/l	2.1	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	3.8	mg/l	3.8	6010
TCLP Silver	ND	.4	mg/l	.4	6010
TCLP Zinc	ND	2.5	mg/l	2.5	6010

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS. MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9902-1 (Project)

Description : B.P. PIT #7

Collected: 06-MAY-94 Matrix: 2phaseliq Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
TCLP SEMIVOLATILES					
2,4-Dinitrotoluene	ND	43	mg/l	.01	8270
Hexachlorobenzene	ND	43	mg/l	.01	8270
Hexachlorobutadiene	ND	43	mg/l	.01	8270
Hexachloroethane	ND	43	mg/l	.01	8270
Nitrobenzene	ND	43	mg/l	.01	8270
Pyridine	ND	43	mg/l	.01	8270
o-Cresol	ND	43	mg/l	.01	8270
m&p-Cresol	46	43	mg/l	.01	8270
Pentachlorophenol	ND	43	mg/l	.01	8270
2,4,5-Trichlorophenol	ND	43	mg/l	.01	8270
2,4,6-Trichlorophenol	ND	43	mg/l	.01	8270
TCLP VOLATILES					
Benzene	ND	1	mg/l	.001	8240
Carbon Tetrachloride	ND	1	mg/l	.001	8240
Chlorobenzene	ND	1	mg/l	.001	8240
Chloroform	ND	30	mg/l	.01	8240
1,4-Dichlorobenzene	ND	1	mg/l	.001	8240
1,2-Dichloroethane	ND	1	mg/l	.001	8240
1,1-Dichloroethene	ND	1	mg/l	.001	8240
Methyl ethyl ketone	ND	10	mg/l	.01	8240
Tetrachloroethene	ND	1	mg/l	.001	8240
Trichloroethene	ND	1	mg/l	.001	8240
Vinyl chloride	ND	5	mg/l	.005	8240

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Janine Reagan/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9861-1 (Project)

Description : CONCRETE #768BP

Collected: 03-MAY-94 Matrix: Solid Submitted: 04-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Janine Reagan/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Saginaw

Sample # L11501-1 (Project)

Description : E-1 CONTAMINATED WATER

Collected: 12 SEP-94 Matrix: Water Submitted: 12-SEP-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB-1016	ND	50	ug/l	1	608
PCB-1221	ND	50	ug/l	1	608
PCB-1232	ND	50	ug/l	1	608
PCB-1242	640	50	ug/l	1	608
PCB-1248	ND	50	ug/l	1	608
PCB-1254	ND	50	ug/l	1	608
PCB-1260	ND	25	ug/l	.5	608

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24151 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-8888 FAX (810) 477-8766

General Motors Corporation-Saginaw

Sample #: L11501-2 (Project)

Description E-2 CONTAMINATED WATER

Collected: 12-SEP-94 Matrix: Water Submitted: 12-SEP-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB-1016	ND	10	ug/l	1	608
PCB-1221	ND	10	ug/l	1	608
PCB-1232	ND	10	ug/l	1	608
PCB-1242	60	10	ug/l	1	608
PCB-1248	ND	10	ug/l	1	608
PCB-1254	ND	10	ug/l	1	608
PCB-1260	ND	5	ug/l	.5	608

Source: US EPA SW846 Methodology / 600 Series / AOAC
Note: ND denotes none detected above Practical Quantitative Limit

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24359 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-4669 FAX (313) 477-4502

Appendix 9.17
Available Laboratory Analytical Data
4/12/95 Diesel Fuel Spill

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 483
Telephone: (810) 449-5000 FAX: (810) 449-50

Project Name: GM - Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: Soil Sample A-I 4/19/95

Date Received: 04/25/1995
Date Reported: 05/03/1995

UL Sample No.: 14408
UL Project No.: 3045

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	455.83	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 483
Telephone: (810) 489-8905 FAX: (810) 489-8

Project Name: GM - Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: Soil Sample A-II 4/19/95

Date Received: 04/25/1995
Date Reported: 05/03/1995

UL Sample No.: 14409
UL Project No.: 3045

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	466.25	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
39555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 483
Telephone: (810) 477-5000 FAX: (810) 477-80

Project Name: GM - Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: Soil Sample A-III 4/19/95

Date Received: 04/25/1995
Date Reported: 05/03/1995

UL Sample No.: 14410
UL Project No.: 3045

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	684.44	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
39565 HILLS TECH DRIVE, FARMINGTON HILLS, MI 483
Telephone: (810) 488-8000 FAX: (810) 489-80

Project Name: GM - Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: Soil Sample A-IV 4/19/95

Date Received: 04/25/1995
Date Reported: 05/03/1995

UL Sample No.: 14411
UL Project No.: 3045

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	671.83	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

3045

YOUNG'S ENVIRONMENTAL CLEANUP, INC.
G-5305 N. DORT HWY. FLINT, MI 48505

CHAIN OF CUSTODY RECORD

COMPANY NAME: GM-Powertrain-Saginaw
ADDRESS:
ATTN:

PHONE: (810) 789-7155 FAX (810) 789-3606
SAMPLED BY Fred Wilson
PROJECT NAME
REPORT TO:

ITEM NO.	SAMPLE IDENTIFICATION	DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE	NO./TYPE CONTAINER	REQUESTED ANALYSES $270 8270	
	Sample A-I	4/19/95	3:00 pm	Soil	1 qt	TPH, Infrared PNA's 8080	14408
	Sample A-II	4/19/95	3:00 pm	Soil	1 qt	TPH, PNA's	14409
	Sample A-III	4/19/95	3:00 pm	Soil	1 qt	TPH, PNA's	14410
	Sample A-IV	4/19/95	3:00 pm	Soil	1 qt.	TPH, PNA's	14411
						4/24/95 University	
						PO# 5181-7822	

RELINQUISHED BY: Fred Wilson	DATE: 4-19-95	TIME: 3:00	RECEIVED BY: Stephanie Abramowski
RELINQUISHED BY: Stephanie Abramowski	DATE:	TIME:	RECEIVED BY:
RELINQUISHED BY: UPS	DATE: 4/20/95	TIME: 1045 am	RECEIVED BY: Susan Plummer

AD

YOUNG'S ENVIRONMENTAL CLEANUP, INC. FROM UNLABELLED LABS, INC.

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Report of Analysis

Submitted by:	Young's Environmental Cleanup, Inc. G-5305 N. Dort Hwy. Flint, MI 48505
Project Name:	GM Powertrain - Saginaw
Sample Identification:	B-1 Sludge 5/4/95; B-2 Sludge 5/4/95; B-3 Sludge 5/4/95; B-4 Sludge 5/4/95
UL Sample No.:	14480; 14481; 14482; 14483
UL Project No.:	3084
Analysis Requested:	Polynuclear Aromatic Hydrocarbons (PNA) TPH
Results:	Please see attached. This report has 5 pages.
Date Received:	05/08/1995
Date Reported:	05/22/1995

UNIVERSITY LABORATORIES

Bijan Sedghi, M.S.
Director of Laboratories

University LABORATORIES
38565 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: GM Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: B-1 Sludge 5/4/95

Date Received: 05/08/1995
Date Reported: 05/22/1995

UL Sample No.: 14480
UL Project No.: 3084

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	1342.9	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: GM Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: B-2 Sludge 5/4/95

Date Received: 05/08/1995
Date Reported: 05/22/1995

UL Sample No.: 14481
UL Project No.: 3084

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	1402.8	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: GM Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: B-3 Sludge 5/4/95

Date Received: 05/08/1995
Date Reported: 05/22/1995

UL Sample No.: 14482
UL Project No.: 3084

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	928.0	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.

University LABORATORIES
38555 HILLS TECH DRIVE, FARMINGTON HILLS, MI 48331
Telephone: (810) 489-8000 FAX: (810) 489-8021

Project Name: GM Powertrain - Saginaw

Submitted by: Young's Environmental Cleanup, Inc.

Sample Description: B-4 Sludge 5/4/95

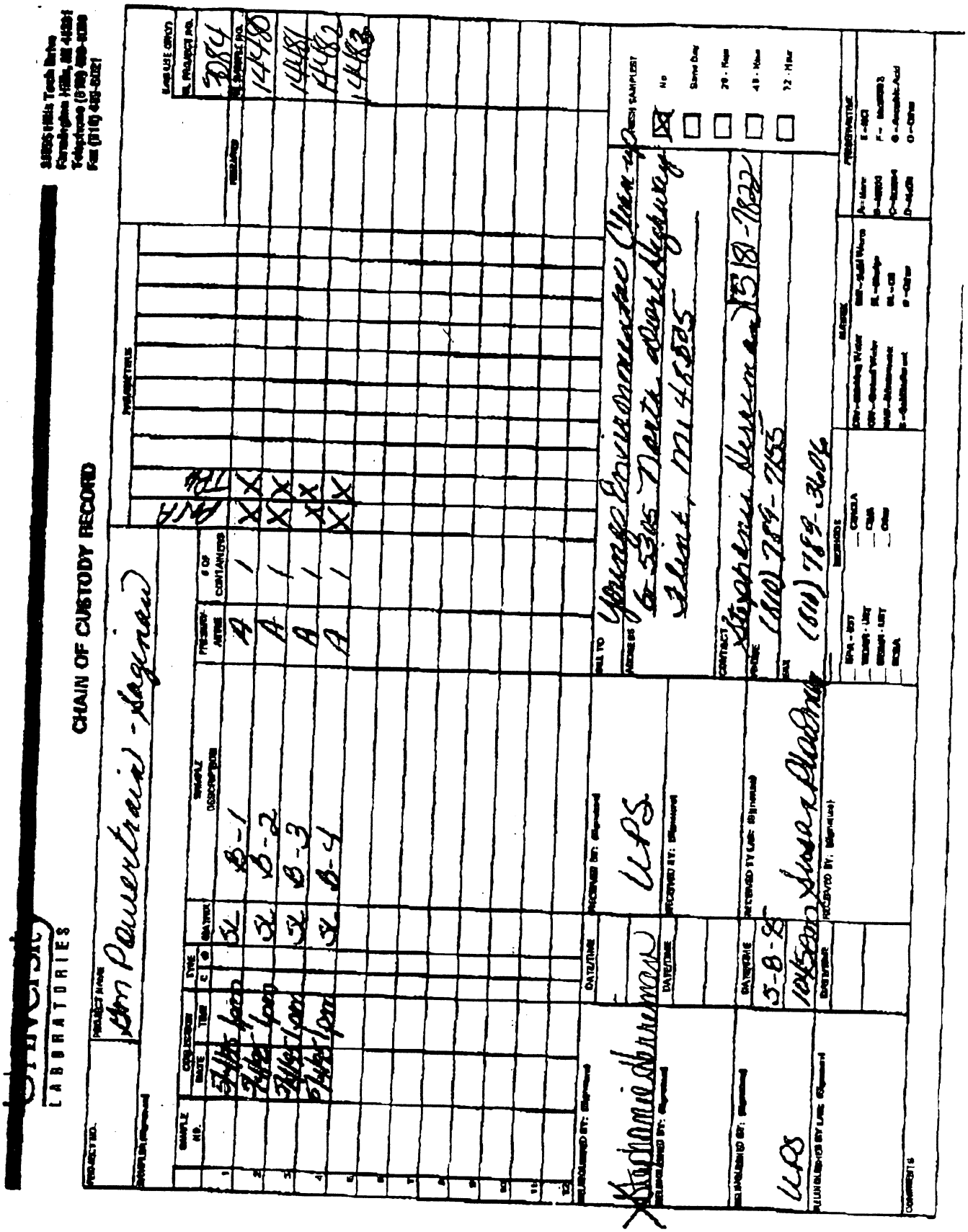
Date Received: 05/08/1995
Date Reported: 05/22/1995

UL Sample No.: 14483
UL Project No.: 3084

Parameter	Measured Concentration	Unit	Method of Analysis	(1) Detection Limit	(2) Regulatory Level
Polynuclear Aromatic Hydrocarbons (PNA)					
Acenaphthene	<0.330	mg/Kg	8270	0.330	
Acenaphthylene	<0.330	mg/Kg	8270	0.330	
Anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) anthracene	<0.330	mg/Kg	8270	0.330	
Benzo (a) pyrene	<0.330	mg/Kg	8270	0.330	
Benzo (b) fluoranthene	<0.330	mg/Kg	8270	0.330	
Benzo (ghi) perylene	<0.330	mg/Kg	8270	0.330	
Benzo (k) fluoranthene	<0.330	mg/Kg	8270	0.330	
Chrysene	<0.330	mg/Kg	8270	0.330	
Dibenzo (a,h) anthracene	<0.330	mg/Kg	8270	0.330	
Fluoranthene	<0.330	mg/Kg	8270	0.330	
Fluorene	<0.330	mg/Kg	8270	0.330	
Indeno (1,2,3-cd) pyrene	<0.330	mg/Kg	8270	0.330	
Naphthalene	<0.330	mg/Kg	8270	0.330	
Phenanthrene	<0.330	mg/Kg	8270	0.330	
Pyrene	<0.330	mg/Kg	8270	0.330	
TPH					
Total Petroleum Hydrocarbons	859.9	mg/Kg	9071m	50	

(<) denotes (less than).
(>) denotes (greater than).

(1) Analysis detection limit is set at the calibration lower limit.
(2) Check application limits. This column is provided for your convenience.



CHAIN OF CUSTODY RECORD

LABORATORIES

TOTAL P.03

Appendix 9.18
Available Laboratory Analytical Data
New Gasoline UST #11

SEG LABORATORIES, INC

PURGE WELL REMEDIATION I
Saginaw Grey Iron Foundry
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
No. WALL	E-418B	382	0	12/06/89	12/08/89
So. WALL	E-418B	383	0	12/06/89	12/08/89
E. WALL	E-418B	384	0	12/06/89	12/08/89
W. WALL	E-418B	385	0	12/06/89	12/08/89

ANALYTICAL REPORT
DATE REPORTED 01/17/90

TEST	UNITS	LAB NO. 382	LAB NO. 383	LAB NO. 384	LAB NO. 385
Total Solids	%	34	81	46	85
PURGEABLE AROMATICS		EPA 8020	EPA 8020	EPA 8020	EPA 8020
Benzene	ug/kg	<10	<10	<10	<10
Toluene	ug/kg	<10	<10	<10	<10
Ethylbenzene	ug/kg	<10	<10	<10	<10
Chlorobenzene	ug/kg	<10	<10	<10	<10
1,3-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,4-Dichlorobenzene	ug/kg	<10	<10	<10	<10
1,2-Dichlorobenzene	ug/kg	<10	<10	<10	<10
p-Xylene	ug/kg	<10	<10	<10	<10
m-Xylene	ug/kg	<10	<10	<10	<10
o-Xylene	ug/kg	<10	<10	<10	<10

PROJECT MANAGER Lori A. Vachon
LORI A. VACHON

SEG LABORATORIES, INC.

PURGE WELL REMEDIAT[illegible]
Saginaw Grey Iron F[illegible]d
Service Garage
Saginaw, Michigan
GTL Job No. E-0418B

Page:

GEO-TEST, LTD.
2970 BAY ROAD
SAGINAW, MI 48603
MR. CHRISTOPHER WILLISTON

Location		Lab No	Time Sampled	Date Sampled	Date Received
COMP. N.S.E.W WALL	E-418B	386	0	12/06/89	12/08/89

ANALYTICAL REPORT
DATE REPORTED 01/19/90

TEST	UNITS	LAB NO. 386
Petroleum Hydrocarbons	ug/kg	<10
Arsenic	ug/kg	2.9
Barium	ug/kg	19
Cadmium	ug/kg	0.70
Chromium	ug/kg	4.0
Copper	ug/kg	16
Lead	ug/kg	9.0
Mercury	ug/kg	0.020
Selenium	ug/kg	0.09
Silver	ug/kg	<0.30
Zinc	ug/kg	11
Total Solids	%	66
PURGEABLE HALOCARBONS		EPA 8010
Dichlorodifluoromethane	ug/kg	<50
Chloromethane	ug/kg	<50
Vinyl chloride	ug/kg	<50
Bromomethane	ug/kg	<50
Chloroethane	ug/kg	<10
Trichlorofluoromethane	ug/kg	<10
1,1-Dichloroethene	ug/kg	<10
Methylene chloride	ug/kg	<10
trans-1,2-Dichloroethene	ug/kg	<10
1,1-Dichloroethane	ug/kg	<10
Chloroform	ug/kg	<10
1,1,1-Trichloroethane	ug/kg	<10