EMCON

DESCRIPTION OF CURRENT CONDITIONS REPORT

VOLUME 5

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 10

Appendix 10.1
Available Laboratory Analytical Data
Casting Sand

Waste Charaterization Study of Foundry Process Solid Wastes

January 1984

Revised February 1984

Residuals Management Technology, Inc.

1406 East Washington Avenue
Suite 124
Madison, Wisconsin 53703
(608) 255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
SAGINAW NODULAR AND GREY IRON
CASTING PLANTS

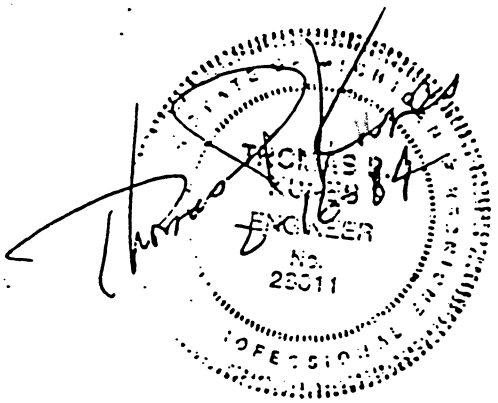
January 1984

Revised February 1984

Dennis E. Strutz
Environmental Specialist

William A. Stephens, P.E.
Manager, Engineering

Thomas P. Kunes, P.E.
Executive Vice President



129.02:D152:DES:tfr

TABLE V

EP TOXICITY LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER	MDNR HAZARDOUS WASTE LIMITS[1,2]	1 METALS RECLAMATION RESIDUALS PILE	2 GREY IRON CORE WASTE COMPOSITE	3 CLASSIFIED SAND PILE	COMPOSITE OF WASTES (1, 2, & 3)[3]
Arsenic	5.0	0.004	< 0.001	0.001	0.003
Barium	100.0	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	1.0	< 0.01	< 0.01	< 0.01	< 0.01
Copper	100	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (total)	5.0	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	20.0	< 0.02	< 0.02	< 0.02	< 0.02
Lead	5.0	< 0.1	< 0.1	< 0.1	0.1
Mercury	0.2	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	1.0	< 0.001	< 0.001	< 0.001	<0.001
Silver	5.0	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	500.0	3.6	0.02	14.2	5.4
pH	--	5.1	5.1	5.1	5.0

(D130)

1. From MDNR R 299.6315 Table 303

2. All results in mg/l

3. Composite sample of the metals reclamation residuals waste pile, the classified sand pile, and the core wastes from the Grey Iron plant were prepared in the lab on the basis of the estimated ratios of generation by weight (45% metals reclamation residuals waste, 34% classified sand, and 31% core wastes)

TABLE II
ASTM LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER[1]	DRINKING WATER STANDARDS	METALS RECLAMATION RESIDUALS PILE	GREY IRON CORE WASTE COMPOSITE (ISO, OIL, SHELL, & HOT)	NODULAR IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	COMPOSITE CORES CLASSIFIED SAND, METALS RECLAMATION RESIDUALS
Arsenic	0.05[2]	0.059	< 0.001	0.002	0.001	0.024
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	1.4 - 2.4[2]	5.3	< 0.1	< 0.1	8.9	5.9
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.002	< 0.001	0.001	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	< 0.01	0.01	< 0.01	< 0.01	< 0.01
pH	6.5 - 8.5[3]	11.2	6.4	7.9	9.8	11.5
Phenols	3.5[4]	0.165	0.270	48.4	< 0.025	1.3

(D130)

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 1980, page 79331.

TABLE VII

TOTAL PCB ANALYSIS TEST RESULTS ON WASTES

WASTE	PCB (dry weight, ppm as Aroclor #1242)
Metals Reclamation Residuals Pile	0.18
Grey Iron Core Waste Composite (Isocure, Oil, Shell & Hot Box)	< 0.1
Classified Sand Pile	< 0.1
Primary Settling Lagoon #2	0.54
Primary Settling Lagoon #3	0.45

Waste Characterization Study of Foundry Pricess Solid Wastes
June 1986

RMT INC

RMT Inc.
Suite 124
1406 East Washington Ave.
Madison, WI 53703
Phone: 608-255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS COPRORATION
CENTRAL FOUNDRY DIVISION

GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

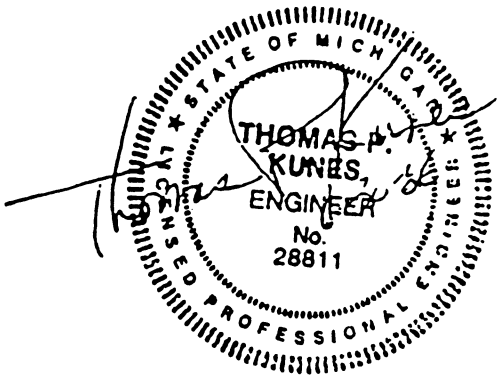
June, 1986

Thomas J. Jancek
Process Consultant

James E. Vondracek
Project Engineer

William A. Stephens, P.E.
Manager of Engineering

Thomas P. Kunes, P.E.
Executive Vice President



RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

P.O. #: 8260

PROJECT #: 129.02

SAMPLE #: 9579

SAMPLE DESCRIPTION: Metals Reclamation Pile Residuals--Grey Iron (2/4-8/85)

COMPOSITIONAL ANALYSIS

PARAMETER	CONCENTRATION	UNITS
TOTAL PCB'S (Aroclor 1242)	0.1	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 3/6/85

PROJECT #: 129.04

P.O. #: 8287

SAMPLE #: 9579

SAMPLE DESCRIPTION: Metals Reclamation Pile Residuals - Grey Iron (2/4-8/85)

ASTM LEACH TEST

PARAMETER	RESULT	UNIT
ARSENIC	0.044	mg/l
BARIUM	< 0.2	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.05	mg/l
COD	99	mg/l
COPPER	0.02	mg/l
CYANIDE, TOTAL	0.022	mg/l
FLUORIDE	5.3	mg/l
LEAD	< 0.005	mg/l
MERCURY	< 0.0002	mg/l
pH	10.6	pH Units
PHENOLS	4.1	mg/l
SELENIUM	0.003	mg/l
SILVER	< 0.02	mg/l
TOC	36.5	mg/l
ZINC	< 0.01	mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

DATE: 3/6/85

CLIENT: GMC-CFD-Saginaw

P.O. #: 8287

PROJECT #: 129.04

SAMPLE #: 9579

SAMPLE DESCRIPTION: Metals Reclamation Pile Residuals - Grey Iron (2/4-8/85)

EP TOXICITY TEST

WEIGHT USED: 100.0 grs. INITIAL PH: 10.3 FINAL PH: 5.1 ACID USED: 375 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	0.004	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	0.08	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.001	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	20.0 mg/l
CYANIDE, TOTAL	0.056	20.0 mg/l
ZINC	6.6	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

Summary Report:
Sampling and Analysis
October 1986

RMT INC.

Great Lakes Office
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

WASTE SAMPLING AND TESTING SUMMARY
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

October 1986

James R. Burns
Project Engineer

Thomas J. Jancek
Process Consultant

Robert E. Zayko, P.E.
Vice President
Northern Region

TABLE 3-1
EP TOXICITY
ANALYTICAL RESULTS (mg/l)
MARCH, 1986

PARAMETER	HAZARDOUS WASTE STANDARD	QUENCHED SLAG	NEW CORE WASTE	NEW METALS RECLAMATION	METALS RECLAMATION PILE (HATCHET PILE)
ARSENIC	5.00	<0.001	<0.001	0.002	0.002
BARIUM	100.00	1.00	<0.2	<0.2	<0.2
CADMIUM	1.00	<0.01	<0.01	<0.01	<0.01
CHROMIUM, TOTAL	5.00	<0.05	<0.05	<0.05	<0.05
LEAD	5.00	0.20	<0.1	<0.1	<0.1
MERCURY	0.20	0.0003	<0.0002	<0.0002	<0.0002
SELENIUM	1.00	<0.1	<0.1	<0.1	<0.1
SILVER	5.00	<0.02	<0.02	<0.02	<0.02
COPPER	100.00	0.03	0.04	0.04	0.03
CYANIDE-TOTAL	20.00	<0.02	<0.02	<0.02	<1.0
ZINC	500.00	5.80	0.70	4.30	2.6

GMC1/6

TABLE 3-2
ASTM LEACH TEST
ANALY'ICAL RESULTS (mg/l)
MARCH 1986

	STANDARD	QUENCHED SLAG	NEW CORE WASTE	NEW METALS RECLAMATION	METALS RECLAMATION PILE (HATCHET PILE)
ARSENIC	0.05	0.002	<0.001	0.005	0.006
BARIUM	1	<0.2	<0.2	<0.2	<0.2
COD	50	<20	134	32	28
CADMIUM	0.01	<0.01	<0.01	<0.01	<0.01
CHROMIUM, TOTAL	0.05	<0.05	<0.05	<0.05	<0.05
COPPER	1	<0.02	0.02	<0.02	0.13
CYANIDE, TOTAL	0.2	<0.02	<0.02	<0.04	<0.04
FLUORIDE	4	0.34	0.4	0.94	3.4
LEAD	0.05	<0.005	<0.005	<0.005	0.028
MERCURY	0.002	<0.0002	<0.0002	<0.0002	<0.0002
PHENOLS	3.5	<0.012	0.18	<0.012	<0.012
SELENIUM	0.01	<0.004	<0.002	<0.002	<0.002
SILVER	0.05	<0.02	<0.02	<0.02	<0.02
TOC	50	1.6	38	9	5.4
ZINC	5	<0.01	0.04	1.4	<0.01
PH	6.5-8.5	10.6	7.2	9.9	8.8

GMC2/6

TABLE 3-3
PCB ANALYTICAL RESULTS (mg/kg)
MARCH 1986

PARAMETER PCB'S BY AROCLOR#	QUENCHED SLAG	NEW CORE WASTE	NEW MATERIAL RECLAMATION	METALS RECLAMATION PILE
1016	<0.08	<0.08	<0.08	<0.08
1221	<0.08	<0.08	<0.08	<0.08
1232	<0.08	<0.08	<0.08	<0.08
1242	<0.08	<0.08	0.3	0.13
1248	<0.08	0.79	<0.08	<0.08
1254	<0.16	<0.16	<0.16	<0.16
1260	<0.16	<0.16	<0.16	<0.16
TOTAL DETECTABLE	NONE DETECTED	0.79	0.3	0.13

GMC3/6

Samples B-1 thru B-5
2, 4, 6' Hand composited

Table 3-4
PCB ANALYTICAL RESULTS (mg/kg dry wt.)
September, 1986

Second Round of Sampling of New Core Waste

Parameter	Samples									
	B-1	B-8	B-16	B-18	B-21	B-22	B-29	B-36	B-42	B-43
PCB's by Aroclor #										
1016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1221	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1232	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1242	.17	.23	.16	.17	.37	.39	.12	<0.08	<0.08	.08
1248	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	.39	.67	<0.08
1254	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1260	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Total Detectable	.17	.23	.16	.17	.37	.39	.12	.39	.67	.08

1073tjj D7 Lotus

Summary Report:
Sampling and Analysis
December 1986

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:

GENERAL MOTORS COPRORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

PREPARED BY:

RMT, INC.
GRAND LEDGE, MICHIGAN

December 1986

James E. Vondracek
Project Engineer

Thomas J. Jancek
Process Consultant

Robert E. Zayko, P.E.
Vice President
Northern Region

1073.04:127 RPTa:sag1029

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20435
DESCRIPTION: C-2 Hatchett File Composite

SAMPLE DATE: 10/27-30/86
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103086-107304
FILE NAME: SAG002AS

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	0.004	mg/l
Barium	< 0.02	mg/l
COD	35	mg/l
Cadmium	< 0.005	mg/l
Chromium, Total	< 0.005	mg/l
Copper	< 0.01	mg/l
Cyanide, Total	< 0.020	mg/l
Fluoride	2.6	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
Phenols	< 0.005	mg/l
Selenium	< 0.002	mg/l
Silver	< 0.02	mg/l
Total Organic Carbon	5.8	mg/l
Zinc	< 0.01	mg/l
pH (lab)	8.7	pH units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT:	GMC-CFD Saginaw	SAMPLE DATE:	10/27-30/87
PROJECT #:	1073.04	REPORT DATE:	12-16-86
RMT SAMPLE #:	20435	TOTAL # PAGES:	1
DESCRIPTION:	C-2 Hatchett Pile Composite	P.O. #:	103186-107304
		FILE NAME:	SAG002PC

PCB ANALYSIS

PCB's BY AROCLOR #	RESULT	UNITS
1016	< 0.08	mg/kg dry wt.
1221	< 0.08	mg/kg dry wt.
1232	< 0.08	mg/kg dry wt.
1242	< 0.08	mg/kg dry wt.
1248	< 0.08	mg/kg dry wt.
1254	< 0.16	mg/kg dry wt.
1260	< 0.16	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20435
DESCRIPTION: C-2 Hatchett Pile Composite

SAMPLE DATE: 10/27-30/
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103186-0
FILE NAME: SAG002EP

EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.1
FINAL PH: 5.2
ACID USED(mls): 400 (all acid used

PARAMETERS	RESULT mg/l	HAZARDOU WASTE LIMITS
ARSENIC	0.002	5.0 mg/
BARIUM	< 0.2	100.0 mg/
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0 mg/l
LEAD	0.2	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.002	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0mg/l
CYANIDE	< 0.020	20.0 mg/l
ZINC	2.8	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protecti Agency requirements as outlined in the May 19, 1980 Federal Registe 40 CFR 261.

Summary Report:
Sampling and Analysis
July 1987

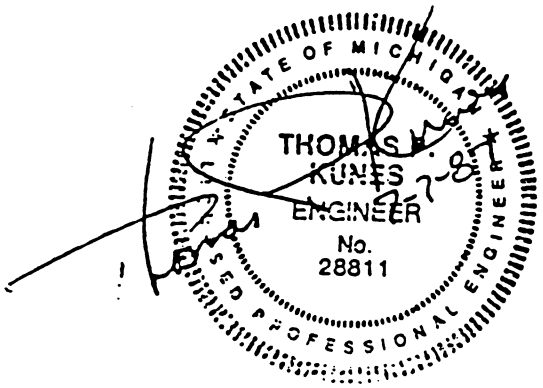
RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT:
SAMPLING AND ANALYSIS OF
FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
NODULAR IRON CASTING PLANT
SAGINAW, MICHIGAN

July 1987



Thomas J. Janecek
Process Consultant

Robert E. Zayko, P.E.
Vice President, Northern Region

Thomas P. Kunes, P.E.
President, Northern Region

1125.07 nodular-29

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1125.07
RMT SAMPLE #: 22023
DESCRIPTION: C-4 Metal Reclamation

SAMPLE DATE: 2/23-24/87
REPORT DATE: 3/30/87
TOTAL # PAGES: 1
P.O. #: 030387-1125
FILE NAME: SAG004EP

EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.6
FINAL PH: 4.9
ACID USED(mls): 235

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	0.6	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.002	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0 mg/l
ZINC	< 0.01	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980 Federal Register, 40 CFR 261.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1125.07
RMT SAMPLE #: 22023
DESCRIPTION: C-4 Metals Reclamation

SAMPLE DATE: 2/23-24/87
REPORT DATE: 3/30/87
TOTAL # PAGES: 1
P.O. #: 030387-112807
FILE NAME: SAG004AS

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	0.012	mg/l
Barium	< 0.02	mg/l
COD	111	mg/l
Cadmium	< 0.005	mg/l
Chromium, Total	< 0.005	mg/l
Copper	< 0.02	mg/l
Cyanide, Total	0.103	mg/l
Fluoride	17.5	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
Phenols	0.160	mg/l
Selenium	0.003	mg/l
Silver	< 0.02	mg/l
Total Organic Carbon	8.5	mg/l
Zinc	< 0.01	mg/l
pH (lab)	9.8	pH units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW NODULAR
PROJECT #: 01125.07
SAMPLE NUMBER :22023

DATE: 03/31/87
P.O. #: 030387-0112507
SAMPLE DATE: 2/23-24/87

SAMPLE DESCRIPTION: METALS RECLAMATION C-4

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.080	mg/kg dry wt.
AROCLOR - 1221	<0.080	mg/kg dry wt.
AROCLOR - 1232	<0.080	mg/kg dry wt.
AROCLOR - 1242	<0.080	mg/kg dry wt.
AROCLOR - 1248	<0.080	mg/kg dry wt.
AROCLOR - 1254	<0.16	mg/kg dry wt.
AROCLOR - 1260	<0.16	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

Summary Report:
Sampling and Analysis
January 1988

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

PREPARED BY:
RMT, INC.
GRAND LEDGE, MICHIGAN

January 1988

James A. Nehls
Group Leader, Technical Services

Thomas J. Jancek
Project Manager

Robert E. Zayko, P.E.
Vice President, Northern Region

1073.10:104 greyiron-39

RMT Inc.

CLIENT: GMC-CFD
PROJECT #: 1073.10
RMT SAMPLE #: 27218
DESCRIPTION: SGI Metals Rec.

SAMPLE DATE: 10/20/87
REPORT DATE: 12/07/87
TOTAL # PAGES: 1
P.O. #: 102787-0107310
FILE NAME: GMC006AS
Revised & Reissued: 12/30/87

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	< 0.003	mg/l
Barium	0.01	mg/l
Cadmium	< 0.004	mg/l
Chromium, Total	< 0.01	mg/l
COD	21	mg/l
Copper	< 0.01	mg/l
Cyanide, Total	< 0.10	mg/l
Fluoride	2.3	mg/l
Lead	0.005	mg/l
Mercury	< 0.0002	mg/l
pH	8.6	pH units
Phenols	< 0.01	mg/l
Selenium	< 0.003	mg/l
Silver	< 0.01	mg/l
Total Organic Carbon	7.0	mg/l
Zinc	< 0.005	mg/l

Kenneth C Rummer
Paul E. Durandeau, Laboratory Director

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: 27218
COMPUCHEM® SAMPLE NUMBER: 161358

		CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1P.	PCB-1242	BDL	20
2P.	PCB-1254	BDL	20
3P.	PCB-1221	BDL	20
4P.	PCB-1232	BDL	20
5P.	PCB-1248	BDL	20
6P.	PCB-1260	BDL	20
7P.	PCB-1016	BDL	20

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	43	(20-150)*

BDL=BELOW DETECTION LIMIT
*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis).

Annual Sampling of Solid Wastes
February 1989

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

February 1989

James A. Nehls
Group Leader, Technical Services

James R. Burns, P.E.
Project Engineer

Thomas J. Jancek
Project Manager

1073.22 Test-60

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34102

DATE: 11/04/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: MRP-4 (METAL REC. PILE)

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	<0.1	mg/kg dry wt.
AROCLOR - 1260	<0.1	mg/kg dry wt.

Laboratory Director

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34102

DATE: 10/30/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: MRF-4 (METAL REC. PILE)

VOLATILE ORGANIC ANALYSIS REPORT

PARAMETER	RESULT	UNITS
METHYLENE CHLORIDE	<1.0	ug/kg dry wt.
CHLOROFORM	<0.50	ug/kg dry wt.
1.1.1-TRICHLOROETHANE	2.4	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34102
DESCRIPTION: MRP - 4 (Metal Rec. Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI014ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.2
FINAL PH: 5.1
ACID USED(mls): 240

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.29	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	0.02	5.0 mg/l
LEAD	0.4	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	2.7	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34103
DESCRIPTION: MRP - 7 (Metal Rec Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI030CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	2.0	mg/kg dry wt.
Barium, Total	37	mg/kg dry wt.
Cadmium, Total	0.63	mg/kg dry wt.
Chromium, Total	40	mg/kg dry wt.
Copper, Total	15	mg/kg dry wt.
Lead, Total	14	mg/kg dry wt.
Mercury, Total	< 0.11	mg/kg dry wt.
Selenium, Total	< 0.84	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	95	mg/kg dry wt.
Zinc, Total	120	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34102
DESCRIPTION: MRP - 4 (Metal Rec Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI029CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Antimony, Total	< 7	mg/kg dry wt.
Arsenic, Total	6.4	mg/kg dry wt.
Barium, Total	47	mg/kg dry wt.
Beryllium, Total	< 0.5	mg/kg dry wt.
Cadmium, Total	< 0.5	mg/kg dry wt.
Chloride, Dissolved	130	mg/l
Chromium, Total	31	mg/kg dry wt.
Cobalt, Total	2.4	mg/kg dry wt.
Copper, Total	7.3	mg/kg dry wt.
Cyanide, Total	5.5	mg/kg dry wt.
Fluoride, Total	640	mg/kg dry wt.
Lead, Total	< 10	mg/kg dry wt.
Lithium, Total	< 5.5	mg/kg dry wt.
Mercury, Total	< 0.10	mg/kg dry wt.
Nickel, Total	8.9	mg/kg dry wt.
Phenols	< 1.4	mg/kg dry wt.
Selenium, Total	< 0.88	mg/kg dry wt.

METALS RECLAMATION PILE
EP Toxicity

PARAMETER	SAMPLE GRID 3	GRID 4	GRID 7	$\bar{x}$	S
Arsenic	<0.004	<0.004	<0.004	<0.004	--
Barium	0.150	0.290	<0.008	0.150	0.140
Cadmium	<0.005	<0.005	0.006	<0.0053	<0.00057
Chromium	<0.01	0.020	<0.01	<0.013	<0.005
Copper	<0.01	<0.01	<0.01	<0.01	--
Lead	<0.1	0.400	<0.1	<0.2	<0.17
Mercury	0.0002	<0.0002	<0.0002	<0.0002	--
Selenium	<0.02	<0.02	<0.02	<0.02	--
Silver	<0.01	<0.01	<0.01	<0.01	--
Zinc	6.400	2.700	0.900	3.300	2.80

METALTOX #1 1073.03

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34101
DESCRIPTION: MRP - 3 (Metal Rec Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI028CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	3.5	mg/kg dry wt.
Barium, Total	85	mg/kg dry wt.
Cadmium, Total	0.74	mg/kg dry wt.
Chromium, Total	160	mg/kg dry wt.
Copper, Total	97	mg/kg dry wt.
Lead, Total	22	mg/kg dry wt.
Mercury, Total	< 0.10	mg/kg dry wt.
Selenium, Total	< 0.85	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	94	mg/kg dry wt.
Zinc, Total	410	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34102
DESCRIPTION: MRP - 4 (Metal Rec Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI029CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	91	mg/kg dry wt.
Zinc, Total	200	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34101
DESCRIPTION: MRP - 3 (Metal Rec. Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI013ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 8.4
FINAL PH: 5.2
ACID USED(mls): 82

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.15	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	6.4	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34103
DESCRIPTION: MRP - 7 (Metal Rec. Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI015ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 8.7
FINAL PH: 5.1
ACID USED(mls): 61

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	< 0.008	100.0 mg/l
CADMIUM	0.006	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	0.90	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34102

DATE: 11/04/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: MRP-4 (METAL REC. PILE)

PHTHALATE ESTERS REPORT

PARAMETER	RESULT	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	<2.0	mg/kg dry wt.
BUTYLBENZYL PHTHALATE	<0.5	mg/kg dry wt.
DI-N-BUTYL PHTHALATE	<0.5	mg/kg dry wt.
DIETHYL PHTHALATE	< OR = 0.53	mg/kg dry wt.
DIMETHYL PHTHALATE	<0.5	mg/kg dry wt.
DI-N-OCTYL PHTHALATE	<3.0	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34102
DESCRIPTION: MRP - 4 (Metal Rec Pile)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/18/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI035CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Formaldehyde	< 6	mg/kg dry wt.

Laboratory Director

METALS RECLAMATION PILE
Compositional Analysis

PARAMETER	SAMPLE GRID 3	GRID 4	GRID 7	$\bar{x}$	S
Arsenic	3.50	6.40	2.00	4.00	2.24
Barium	85.00	47.00	37.00	56.30	25.30
Cadmium	0.74	<0.50	0.63	<0.62	<0.12
Chromium	160.00	31.00	40.00	77.00	72.00
Copper	97.00	7.30	15.00	39.80	49.70
Lead	22.00	<10.00	14.00	15.30	6.10
Mercury	<0.10	<0.10	<0.11	<0.10	<0.006
Selenium	<0.85	<0.88	<0.84	<0.86	<0.02
Silver	<1.00	<1.00	<1.00	<1.00	--
Solids	94.00	91.00	95.00	93.30	2.10
Zinc	410.00	200.00	120.00	243.30	149.70

METALCOMP D#1 1197.17

Annual Sampling of Solid Wastes
Ocotober 1990

RMT INC

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GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

OCTOBER 1990

E. Bernard Roykjenes
Engineering Technician

James R. Burns, P.E.
Group Leader
Engineering and Technical Services

Thomas J. Jancek
Project Manager

1073.43 gm1018

TABLE 3 - 2

GMC-SGI Solid Waste Designation

Toxicity Characteristic Leaching Procedure

PARAMETER	TCLP Regulatory Limits	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
Arsenic (mg/l)	5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.006	< 0.003
Barium (mg/l)	100	0.37	0.46	3.5	0.28	0.11	0.25	0.07
Cadmium (mg/l)	1	< 0.005	0.008	0.006	0.005	0.007	0.008	0.007
Chromium (mg/l)	5	0.02	0.03	1.5	0.05	0.02	< 0.01	< 0.01
Copper (mg/l)		< 0.02	0.02	0.02	0.03	< 0.02	< 0.02	< 0.02
Lead (mg/l)	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (mg/l)	0.2	< 0.0002	< 0.0002	< 0.0004	< 0.0002	0.0002	< 0.0002	< 0.0002
Selenium (mg/l)	1	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003
Silver (mg/l)	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc (mg/kg)		1.2	3.6	12	11	150	4.7	0.03
Fluoride (mg/l)		0.13	0.50	1.2	0.16	1.9	9.5	< 0.10
Phenol (mg/l)		0.35	0.36	0.44	0.23	0.57	0.30	0.44
Phosphorus (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	1.3	1.2	< 0.10
Formaldehyde (mg/l)		< 0.25	< 0.25	NA*	< 0.25	1.3	< 0.25	< 0.25
Benzene (mg/l)	0.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Toluene (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Xylenes (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

NA* = Not Analyzed. Sample contained apparent emulsified oils. Due to light scattering, absorbance values are invalid.

H:1073TB62

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics							
Antimony (mg/kg)	< 20	< 20	< 20	< 20	< 50	< 70	< 20
Arsenic (mg/kg)	1.0	3.8	1.4	0.8	6.3	7.4	< 0.6
Barium (mg/kg)	200	47	430	49	150	210	< 5
Beryllium (mg/kg)	< 0.5	< 0.5	1.7	< 0.5	< 1.1	< 1.8	< 0.5
Biochemical Oxygen Demand	34	30	< 6.7	13	4600	24000	< 2.5
Cadmium (mg/kg)	< 0.5	0.8	< 0.6	< 0.5	30	2	< 0.5
Calcium (mg/kg)	5700	10000	220000	15000	20000	8700	550
Chloride (mg/l)	8.7	140	24	80	420	54	< 21
Chromium (mg/kg)	32	85	560	57	180	7	< 1
Cobalt (mg/kg)	< 5	< 5	< 6	< 5	< 11	< 18	< 5
Copper (mg/kg)	8	32	70	15	120	20	< 2
Corrosivity (pH units)	7.6	9.5	10.5	8.9	9.7	7.3	7.5
Cyanide (mg/kg)	< 2.6	< 2.7	11	< 2.6	< 5.7	< 8.9	< 2.6
Fluoride (mg/kg)	26	39	38	< 21	110	930	< 21
Lead (mg/kg)	< 10	< 10	20	< 10	1100	40	< 10
Lithium (mg/kg)	< 5	< 5	14	< 5	< 10	< 20	< 5
Magnesium (mg/kg)	560	880	5300	690	3900	390	270
Manganese (mg/kg)	400	700	14000	1300	5700	950	15
Mercury (mg/kg)	< 0.11	< 0.11	< 0.11	< 0.1	< 0.23	< 0.36	< 0.10
Nickel (mg/kg)	< 4	13	17	< 4	30	< 14	< 4
Nitrate (mg/kg)	4.6	< 0.54	< 0.56	0.94	< 1.1	310	< 0.52
Nitrite (mg/kg)	< 0.21	< 0.22	< 0.22	< 0.21	< 0.45	< 0.71	< 0.21
Nitrogen, Total Kjeldahl (mg/kg)	880	490	310	260	3700	1800	< 26
Phenols (mg/kg)	15	3.2	< 2.8	< 2.6	100	< 8.9	< 2.6
Phosphorus, Total (mg/kg)	68	63	14	64	3000	12000	28
Potassium (mg/kg)	110	280	2000	230	1900	960	< 50
Selenium (mg/kg)	< 0.6	< 0.6	1.0	< 0.6	< 1.4	< 2.1	< 0.6
Silver (mg/kg)	< 1	< 1	2	< 1	< 2	< 4	< 1

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data
Cont'd

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics Cont'd							
Sodium (mg/kg)	60	110	980	150	1500	3300	< 50
Solids (%)	94	93	90	96	44	28	97
Zinc (mg/kg)	73	150	1900	410	28000	1000	3
B. Volatile Organics							
Methylene Chloride (ug/kg)	0.82	2.1	3.9	3.7	3.0	2.8	< 1.2
Chloroform (ug/kg)	< 0.50	0.81	< 0.50	< 0.50	< 1.0	< 1.6	< 1.2
1,1,1-Trichloroethane (ug/kg)	7.6	2.6	< 0.50	1.4	< 1.0	< 1.6	< 2.5
Benzene (ug/kg)	< 1.0	1.3	2.9	< 1.0	64	< 3.2	< 1.2
Toluene (ug/kg)	< 1.0	4.9	17	< 1.0	44	< 3.2	< 1.2
C. Phthalate Esters							
BIS(2-Ethylhexyl)Phthalate (mg/kg)	0.28	< 0.80	< 0.06	< 0.07	0.15	< 0.24	0.
D. Phosphates							
Triphenol Phosphate (ppm)	0.088	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tricersol Phosphate (ppm)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
E. PCB's							
Aroclor - 1016 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1221 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1232 (mg/kg)	0.64	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1242 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1248 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1254 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
Aroclor - 1260 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
F. Formaldehyde (mg/kg)	< 6.1	< 6.9	< 6.6	< 6.2	< 12.2	< 20.8	15.3
G. Asbestos							
Amosite Asbestos (%)	0	0	0	0	0	0	0
Chrysotile Asbestos (%)	0	0	0	0	0	0	0

H:1073TB63 : A83..X155

Annual Sampling of Solid Wastes
January 1992

RMT INC

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GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES

JANUARY 1992

E. Bernard Roykjenes
Environmental Scientist

Thomas J. Jancek
Project Manager

1073.47 gm0110

TABLE 3 - 1 CONT'D

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

METALS RECLAMATION EP TOXICITY

PARAMETER	UNITS	EP TOX HAZ. WASTE LIMITS	METALS RECLAMATION GL#1	METALS RECLAMATION GL#5	METALS RECLAMATION GL#7	Upper Confidence Interval
ARSENIC	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
BARIUM	mg/L	100.0	0.13	0.16	0.16	0.19
CADMIUM	mg/L	1.0	<0.00060	0.0011	0.0014	0.0021
CHROMIUM-TOTAL	mg/L	5.0	<0.010	<0.010	<0.010	0.015
COPPER	mg/L	100.0	0.023	0.070	0.025	0.094
LEAD	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.0060	<0.0060	<0.0060	0.0092
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L	500	9.1	12	18	22.4

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
ENDRIN	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
LINDANE	mg/L	0.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
METHOXYCHLOR	mg/L	10.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOXAPHENE	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,4-D	mg/L	10.0	<0.012	<0.012	<0.012	<0.011	<0.01	<0.012	<0.012	<0.012
2,4,5-TP	mg/L	1.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORDANE	mg/L	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
HEPTACHLOR	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
HEPTACHLOR EPOXIDE	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-CHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2-NITROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.022J	0.018J	0.014J	<0.025
2,4-DIMETHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.006J	0.008J	<0.025	<0.025
2,4-DICHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4,6-TRICHLOROPHENOL*	mg/L	2.0	<0.042	<0.013	<0.014	<0.064	<0.11	<0.11	<0.11	<0.035
4-CHLORO-3-METHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYL-4,6-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
PENTACHLOROPHENOL*	mg/L	100.0	<0.16	<0.18	<0.43	<0.18	<0.18	<0.18	<0.18	<0.13
4-NITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYLPHENOL	mg/L	(2)								
3-METHYLPHENOL	mg/L	(2)			REPORTED AS TOTAL CRESOLS					
4-METHYLPHENOL	mg/L	(2)								
TOTAL CRESOLS	mg/L	200.0	<0.15	<0.34	<0.23	<0.19	0.22	0.22	0.21	<0.12
2,4-DINITROTOLUENE*	mg/L	0.13 (1)	<0.031	<0.031	<0.030	<0.028	<0.074	<0.074	<0.074	<0.031
HEXACHLOROBENZENE*	mg/L	0.13 (1)	<0.033	<0.030	<0.032	<0.030	<0.033	<0.033	<0.033	<0.033
HEXACHLOROBUTADIENE*	mg/L	0.5	<0.054	<0.057	<0.052	<0.061	<0.047	<0.047	<0.047	<0.047
HEXACHLOROETHANE*	mg/L	3.0	<0.05	<0.053	<0.046	<0.050	<0.04	<0.04	<0.04	<0.042
NITROBENZENE*	mg/L	2.0	<0.036	<0.038	<0.034	<0.033	<0.078	<0.078	<0.078	<0.032
PYRIDINE*	mg/L	5.0 (1)	<0.21	<0.24	<0.19	<0.26	<0.16	<0.16	<0.16	<0.18
2,4,5-TRICHLOROPHENOL*	mg/L	400.0	<0.19	<0.33	<0.67	<0.21	<0.27	<0.27	<0.27	<0.16
PHOSPHORUS	mg/L		<0.10	<0.10	<0.10	<0.10	19	10	6.5	0.39
CHLORIDE	mg/L		7.6	7.4	3.9	5.8	9.0	16	14	24
FLUORIDE	mg/L		0.19	0.13	0.35	0.26	1.2	2.2	2.5	10
TOTAL PHENOLICS	mg/L		<0.050	<0.050	<0.050	<0.050	0.17	0.18	0.16	<0.05

"J" DENOTES AN ESTIMATED CONCENTRATION.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
(2) IF o-, m-, AND p-cresol CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
CHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
VINYL CHLORIDE	mg/L	0.2	<0.0010	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
DICHLORODIFLUOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
METHYLENE CHLORIDE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FLUOROTRICHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-DICHLOROETHYLENE	mg/L	0.7	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1-DICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHYLENE (total)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CHLOROFORM	mg/L	6.0	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHANE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1,1-TRICHLOROETHANE	mg/L		0.0032	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CARBON TETRACHLORIDE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
BROMODICHLOROMETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROPROPANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CIS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TRICHLOROETHYLENE	mg/L	0.5	<0.0022	<0.0020	<0.0021	<0.0020	<0.002	<0.002	<0.002	<0.0021
BENZENE	mg/L	0.5	<0.0011	<0.0012	<0.0010	<0.0010	0.006	0.007	0.0071	<0.001
1,1,2-TRICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TRANS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORODIBROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
2-CHLOROETHYLVINYL ETHER	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BROMOFORM	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
METHYL ETHYL KETONE	mg/L	200.0	<0.0074	<0.0073	<0.0061	<0.0065	<.0.0067	<.0.0067	<.0.0067	<.0.0071
TETRACHLOROETHYLENE	mg/L	0.7	<0.0026	<0.0025	<0.0022	<0.0022	<0.002	0.0051	0.0048	<0.0021
1,1,2,2-TETRACHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOLUENE	mg/L		<0.001	<0.001	<0.001	0.001	0.0021	0.0015	0.0017	<0.001
CHLOROBENZENE	mg/L	100.0	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
ETHYLBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-DICHLOROBENZENE	mg/L	7.5	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
XYLENES	mg/L		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
FORMALDEHYDE	UG/L		430 F(47)	1250 F(47)	540 F(47)	410 F(47)	2272F(58)	1667F(58)	1675F(58)	466F(58)

"F" DENOTES FORMALDEHYDE WAS FOUND IN METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.

TABLE 3 - 2 CONT'D

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

METALS RECLAMATION TCLP 10-METALS

PARAMETER	UNITS	TCLP REGULATORY LIMITS	METALS RECLAMATION GL#1	METALS RECLAMATION GL#5	METALS RECLAMATION GL#7	Upper Confidence Interval
ARSENIC	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
BARIUM	mg/L	100.0	0.031	0.32	0.27	0.526
CADMIUM	mg/L	1.0	<0.00060	0.00069	0.00071	0.00079
CHROMIUM	mg/L	5.0	0.019	0.034	0.046	0.061
COPPER	mg/L		<0.022	<0.022	<0.020	0.034
LEAD	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.0060	<0.0060	<0.0060	0.0092
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L		11	7.6	5.5	13.8

TABLE 3-3

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
ANTIMONY	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.1	2.9	<2.7
ARSENIC	mg/Kg DRY WT	1.4	3.2	<1.3	0.71	5.1	9.0
BARIUM	mg/Kg DRY WT	26	86	620	60 *	110	27
BERYLLIUM	mg/Kg DRY WT	<0.53	<0.55	2.6	<0.52	<1.0	<1.3
CADMIUM	mg/Kg DRY WT	<0.53	<0.55	<0.54	<0.52	10	<1.3
CALCIUM	mg/Kg DRY WT	4300	22000	260000	25000	18000	12000
CHROMIUM	mg/Kg DRY WT	51	160	590	83	130	31
COBALT	mg/Kg DRY WT	<5.3	<5.5	<5.4	<5.2	<10	<13
COPPER	mg/Kg DRY WT	22	67	22	14	110	10
LEAD	mg/Kg DRY WT	<21	<22	24	<21	770	<53
LITHIUM	mg/Kg DRY WT	<5.3	<5.5	21	<5.2	<10	<13
MAGNESIUM	mg/Kg DRY WT	550	1100	6500	980	3800	710
MANGANESE	mg/Kg DRY WT	510	2400	22000	3000	4900	1200
MERCURY	mg/Kg DRY WT	<0.11	<0.11	<0.11	<0.10	<0.21	<0.27
NICKEL	mg/Kg DRY WT	11	29	7.0	6.0	32	<11
POTASSIUM	mg/Kg DRY WT	<110	360	2400	410	1800	1300
SELLENIUM	mg/Kg DRY WT	<0.64	<0.66	<3.2	<0.63	<1.2	<1.6
SILVER	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.0	<2.1	<2.7
SODIUM	mg/Kg DRY WT	230	300	1500	240	1400	4000
ZINC	mg/Kg DRY WT	160	500	2000	440	30000	690
TOTAL SOLIDS	%	93.7	90.3	93.3	95.3	48.2	37.5
CYANIDE (total)	mg/Kg DRY WT	<2.7	<2.8	4.3	<2.6	<5.2	<6.7
REACTIVITY CYANIDE	mg/Kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
AMMONIA NITROGEN	mg/Kg	71	<28	<27	<26	150	<66
TOTAL KJELDAHL NITROGEN	mg/Kg DRY WT	690	480	370	210	2900	2500
SOLUBLE (NITRATE & NITRITE)	mg/Kg	37	3.6	0.65	1.6	<0.50	130
PHOSPHORUS (total)	mg/Kg DRY WT	60	91	12	72	4200	15000
REACTIVITY SULFIDES	mg/Kg	<10	<10	<10	<10	<10	<10
CORROSIVITY (soil pH)	pH units	9.3	9.6	9.6	9.7	10.0	7.4

*** DENOTES DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

TABLE 3-3 CONT'D

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
SOLUBLE CHLORIDE	mg/Kg	98	130	15	41	130	340
FLUORIDES	mg/Kg DRY WT	74	49	46	53	200	2500
TOTAL PHENOLICS	mg/Kg DRY WT	14	<2.9	<2.7	<2.6	69	7.9
ORTHO-PHOSPHATES (as soluble)	mg/kg	1.7	8	<1.0	<1.0	26	10
PCB-1016	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1221	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1232	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1242	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1248	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	0.96	<0.21
PCB-1254	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
PCB-1260	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
METHYLENE CHLORIDE	mg/Kg DRY WT	0.002J	0.006	0.001J	0.002J	<0.010	<0.016
1,1,1-TRICHLOROETHANE	mg/Kg DRY WT	0.009	0.0004J	<0.005	<0.005	<0.010	<0.016
BENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	0.048	<0.016
CHLOROFORM	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
TOLUENE	mg/Kg DRY WT	<0.005	0.002J	0.0008J	<0.005	0.022	<0.016
XYLENE	mg/Kg DRY WT	<0.005	0.0009J	<0.005	<0.005	0.022	<0.016
CARBON TETRACHLORIDE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
CHLOROBENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
BIS-2-ETHYLHEXYLPHTHALATE	mg/Kg DRY WT	0.75J	0.180J	<0.36	<0.35	<6.4	0.61J
TRICRESYL PHOSPHATE	mg/Kg DRY WT	NP	NP	NP	NP	NP	NP
TRIPHENYL PHOSPHATE	mg/Kg DRY WT	P	P	NP	NP	NP	NP
TRIXYLENYL PHOSPHATE	mg/Kg DRY WT	NA	NA	NA	NA	NA	NA
FORMALDEHYDE	UG/L	1949 F(31)	8980 F(31)	5777 F(31)	4824 F(31)	49110 F(31)	391 F(31)
BOD	mg/Kg DRY WT	256	101	<36	<52	3577	2700
ASBESTOS(AMOSITE+CHRYSOTILE)	%	0	0	0	0	0	0
IGNITABILITY	degrees F	>140	>140	>140	>140	>140	>140

"A" DENOTES AR1248 WAS IDENTIFIED AND REPORTED. OTHER AROCHLORS MAY BE PRESENT BUT WERE NOT QUANTIFIABLE
"F" DENOTES FORMALDEHYDE WAS FOUND IN THE METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
"J" DENOTES AN ESTIMATED CONCENTRATION.
"P" DENOTES THIS COMPOUND WAS PRESENT.
"NP" DENOTES THIS COMPOUND WAS NOT PRESENT.
"NA" DENOTES A STANDARD FOR THIS COMPOUND WAS NOT AVAILABLE.

Sampling of Solid Wastes
collected 11/16/92

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N2-11-271
Date: 12/16/92 17:19
Work ID: GM-Grey Iron
Date Received: 11/17/92
Date Completed: 12/16/92
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	Metals Rec. A/35	05	Core Scrap/240
02	Metals Rec. A/96	06	Core Scrap/247
03	Metals Rec. A/153	07	Core Scrap/103
04	Metals Rec A/201	08	Core Scrap/40

ANALYTICAL METHODS AND DOCUMENTATION ARE FOUND AT THE END OF THIS REPORT. ALL RESULTS ON SOILS/SLUDGES ARE REPORTED "AS RECEIVED" UNLESS OTHERWISE SPECIFIED.

David L. Bumgarner

Certified By
David L. Bumgarner

037698

KEMRON ENVIRONMENTAL SERVICES

Sample: 01A Metals Rec. A/35 **Collected: 11/16/92** **Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	5.9	0.2	mg/kg As	11/30/92	TAS
Barium, Total	32	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.09	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	19,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	41	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	17	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	2.4	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	9	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	3900	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1100	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	10	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	20	2	mg/kg Ni	12/09/92	JBC
Percent Solids	90	1	% wt.	11/30/92	RWC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	300	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	200	0.5	mg/kg Zn	12/09/92	JBC

Sample: 01E Metals Rec. A/35 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	2.4	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	12/04/92	DIH

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Test Description	Result	Det Limit	Units	Analyzed	By
Orthophosphate, Leachable	<0.05	0.05	mg/L P	12/03/92	SMC

Sample: 01F Metals Rec. A/35 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	7.554		S.U.	12/02/92	JK

Sample: 02A Metals Rec. A/96 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	9.4	0.2	mg/kg As	11/30/92	TAS
Barium, Total	39	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.13	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	27,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	39	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	25	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	2.9	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	10	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	2900	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	970	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	7	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	20	2	mg/kg Ni	12/09/92	JBC
Percent Solids	88	1	% wt.	11/30/92	RWC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	300	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	0.3	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	430	0.5	mg/kg Zn	12/09/92	JBC

Sample: 02E Metals Rec. A/96 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	7	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	2.2	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.13	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.23	0.05	mg/L P	12/03/92	SMC

Sample: 02F Metals Rec. A/96 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	7.027		S.U.	12/02/92	JK

Sample: 03A Metals Rec. A/153 **Collected: 11/16/92** **Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	2.5	0.2	mg/kg As	11/30/92	TAS
Barium, Total	60	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.12	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	12,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	140	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	3	1	mg/kg Co	12/09/92	JBC
Copper, Total	41	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	0.8	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	10	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	670	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1300	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	20	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	38	2	mg/kg Ni	12/09/92	JBC
Percent Solids 037701	93	1	% wt.	11/30/92	RWC

Test Description	Result	Det Limit	Units	Analyzed	By
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	200	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	100	25	mg/kg Na	12/09/92	JBC
Zinc, Total	370	0.5	mg/kg Zn	12/09/92	JBC

Sample: 03E Metals Rec. A/153 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.2	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.07	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.07	0.05	mg/L P	12/03/92	SMC

Sample: 03F Metals Rec. A/153 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	6.655		S.U.	12/02/92	JK

Sample: 04A Metals Rec A/201 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	1.9	0.2	mg/kg As	11/30/92	TAS
Barium, Total	210	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.16	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	18,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	110	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	33	1	mg/kg Cu	12/09/92	JBC

037702

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	1.1	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	20	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	780	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1500	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	10	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	20	2	mg/kg Ni	12/09/92	JBC
Percent Solids	93	1	% wt.	11/30/92	RWC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	300	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	340	0.5	mg/kg Zn	12/09/92	JBC

Sample: 04E Metals Rec A/201 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	4	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.3	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.06	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.09	0.05	mg/L P	12/03/92	SMC

Sample: 04F Metals Rec A/201 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	6.826		S.U.	12/02/92	JK

037703

Sample Description: **Metals Rec. A/35** Collected: **11/16/92 13:40** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01B** Category: **SOLID**

ANALYST: TLD FILE #: 3NO24561
INSTRMT: FINN3 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**34**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**7**	5
51-79-6	Urethane	**ND**	

Sample Description: **Metals Rec. A/35** Collected: **11/16/92 13:40** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01B** Category: **SOLID**

SURROGATES		
1,2-D loroethane-d4	96	% Recovery
Toluene-d8	129 *	% Recovery
p-Bromofluorobenzene	62 *	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037711

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/35** Collected: **11/16/92 13:40** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8775
INSTRMT: FINN4 INJECTED: 12/03/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**BDL**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	63 % Recovery	2-Fluorobiphenyl	69 % Recovery
Phenol-d5	52 % Recovery	2,4,6-Tribromophenol	86 % Recovery
Nitrobenzene-d5	55 % Recovery	p-Terphenyl-d14	65 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

05/12

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/35** Collected: **11/16/92 13:40** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **01D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	0.5	500.0
	50-00-0	Formaldehyde	0.29 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037713

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/35** Collected: **11/16/92 13:40** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **01F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/20/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/21/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037714

Sample Description: **Metals Rec. A/96** Collected: **11/16/92 13:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **02B** Category: **SOLID**

ANALYST: TLD FILE #: 3NO24562
INSTRMT: FINN3 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**39**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**BDL**	5
51-79-6	Urethane	**ND**	

037715

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/96** Collected: **11/16/92 13:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **02B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	104	% Recovery
Toluene-d8	141 *	% Recovery
p-Bromofluorobenzene	67 *	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037716

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/96** Collected: **11/16/92 13:45** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **02C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8778
INSTRMT: FINN4 INJECTED: 12/04/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**BDL**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	74 % Recovery	2-Fluorobiphenyl	76 % Recovery
Phenol-d5	61 % Recovery	2,4,6-Tribromophenol	86 % Recovery
Nitrobenzene-d5	64 % Recovery	p-Terphenyl-d14	68 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037717

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/96** Collected: **11/16/92 13:45** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **02D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	.8	500.0
	50-00-0	Formaldehyde	0.30 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIORNMENTAL CONSULTANTS

037718

Sample Description: **Metals Rec. A/96** Collected: **11/16/92 13:45** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **02F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037719

Sample Description: **Metals Rec. A/153** Collected: **11/16/92 13:58** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **03B** Category: **SOLID**

ANALYST: TLD FILE #: 3GM24563
INSTRMT: FINN3 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET	LIMIT
71-43-2	Benzene	**BDL**		5
75-27-4	Bromodichloromethane	**BDL**		5
75-25-2	Bromoform	**BDL**		5
74-83-9	Bromomethane	**BDL**		10
56-23-5	Carbon tetrachloride	**BDL**		5
108-90-7	Chlorobenzene	**BDL**		5
75-00-3	Chloroethane	**BDL**		10
110-75-8	2-Chloroethylvinyl ether	**BDL**		10
67-66-3	Chloroform	**BDL**		5
74-87-3	Chloromethane	**BDL**		10
124-48-1	Dibromochloromethane	**BDL**		5
75-71-8	Dichlorodifluoromethane	**BDL**		5
75-34-3	1,1-Dichloroethane	**BDL**		5
107-06-2	1,2-Dichloroethane	**BDL**		5
75-35-4	1,1-Dichloroethene	**BDL**		5
156-60-5	trans-1,2-Dichloroethene	**BDL**		5
78-87-5	1,2-Dichloropropane	**BDL**		5
10061-01-5	cis-1,3-Dichloropropene	**BDL**		5
10061-02-6	trans-1,3-Dichloropropene	**BDL**		5
100-41-4	Ethyl benzene	**BDL**		5
75-09-2	Methylene chloride		**37**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**		5
127-18-4	Tetrachloroethene	**BDL**		5
75-69-4	Trichlorofluoromethane	**BDL**		10
79-01-6	Trichloroethene	**BDL**		5
71-55-6	1,1,1-Trichloroethane	**BDL**		5
79-00-5	1,1,2-Trichloroethane	**BDL**		5
108-88-3	Toluene	**BDL**		5
75-01-4	Vinyl chloride	**BDL**		10
1330-20-7	Xylenes, Total	**BDL**		5
51-79-6	Urethane		**ND**	

Sample Description: **Metals Rec. A/153** Collected: **11/16/92 13:58** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **03B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	102	% Recovery
Toluene-d8	120 *	% Recovery
p-Bromofluorobenzene	70 *	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037721

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/153** Collected: **11/16/92 13:58** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **03C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8779
INSTRMT: FINN4 INJECTED: 12/04/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**700**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	72 % Recovery	2-Fluorobiphenyl	71 % Recovery
Phenol-d5	58 % Recovery	2,4,6-Tribromophenol	82 % Recovery
Nitrobenzene-d5	61 % Recovery	p-Terphenyl-d14	67 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037722

Sample Description: **Metals Rec. A/153** Collected: **11/16/92 13:58** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **03D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**<0.2**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**5.8**	500.0
	50-00-0	Formaldehyde	**0.24 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037723

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. A/153** Collected: **11/16/92 13:58** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **03F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037724

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec A/201** Collected: **11/16/92 14:05** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04B** Category: **SOLID**

ANALYST: TLD FILE #: 3GM24564
INSTRMT: FINN3 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**23**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**BDL**	5
51-79-6	Urethane	**ND**	

037725

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec A/201** Collected: **11/16/92 14:05** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	104	% Recovery
Toluene-d8	101	% Recovery
p-Bromofluorobenzene	72 *	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037726

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec A/201** Collected: **11/16/92 14:05** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04C** Category: **SOLID**

ANALYST: SPL EXTRACTED: 11/30/92 FILE #: 4NO8785
INSTRMT: FINN4 INJECTED: 12/04/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**220**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**2600**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	70 % Recovery	2-Fluorobiphenyl	71 % Recovery
Phenol-d5	63 % Recovery	2,4,6-Tribromophenol	84 % Recovery
Nitrobenzene-d5	61 % Recovery	p-Terphenyl-d14	71 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037727

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec A/201** Collected: **11/16/92 14:05** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **04D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**<0.2**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**7.3**	500.0
	50-00-0	Formaldehyde	**1.9 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037728

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec A/201** Collected: **11/16/92 14:05** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **04F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037729

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N2-11-270
Date: 12/16/92 17:11
Work ID: GM-Grey Iron
Date Received: 11/17/92
Date Completed: 12/16/92
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	Quenched Slag A/22
02	Quenched Slag A/30
03	Quenched Slag A/25
04	Quenched Slag A/33
05	Metals Rec. "B-C"/82
06	Metals Rec. "B-C"/67
07	Metals Rec. "B-C"/73
08	Metals Rec. "B-C"/58

ANALYTICAL METHODS AND DOCUMENTATION ARE FOUND AT THE END OF THIS REPORT. ALL RESULTS ON SOILS/SLUDGES ARE REPORTED "AS RECEIVED" UNLESS OTHERWISE SPECIFIED.

David L. Bumgarner

Certified By
David L. Bumgarner

037614

KEMRON
ENVIRONMENTAL SERVICES

Test Description	Result	Det Limit	Units	Analyzed	By
Magnesium, Total	970	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1800	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	40	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	59	2	mg/kg Ni	12/09/92	JBC
Percent Solids	91	1	% wt.	11/19/92	KHA
Phosphorus, Total	<2.5	2.5	mg/kg P	11/21/92	SMC
Potassium, Total	300	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	400	0.5	mg/kg Zn	12/09/92	JBC

Sample: 05E Metals Rec. "B-C"/82 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	6	3	mg/L O2	11/25/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	11/30/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/24/92	JK
Fluoride, Leachable	0.2	0.1	mg/L F	12/01/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/24/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	<0.05	0.05	mg/L P	11/25/92	DIH

Sample: 05F Metals Rec. "B-C"/82 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/09/92	JB
Corrosivity (pH)	6.604		S.U.	11/24/92	JK

Sample: 06A Metals Rec. "B-C"/67 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	0.89	0.2	mg/kg As	11/30/92	TAS

037621

Test Description	Result	Det Limit	Units	Analyzed	By
Barium, Total	480	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.24	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	200,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	500	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	<1	1	mg/kg Co	12/09/92	JBC
Copper, Total	20	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	10	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	11/22/92	WMW
Lead, Total	20	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	14	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	4300	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	18,000	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	<5	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	7	2	mg/kg Ni	12/09/92	JBC
Percent Solids	94	1	% wt.	11/19/92	KHA
Phosphorus, Total	<2.5	2.5	mg/kg P	11/21/92	SMC
Potassium, Total	1800	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	210	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	1.1	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	1000	25	mg/kg Na	12/09/92	JBC
Zinc, Total	1200	0.5	mg/kg Zn	12/09/92	JBC

Sample: 06E Metals Rec. "B-C"/67 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	6	3	mg/L O2	11/25/92	SMC
Chloride, Leachable	3	2	mg/L Cl	11/30/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/24/92	JK
Fluoride, Leachable	0.2	0.1	mg/L F	12/01/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/24/92	JK
Nitrate, Leachable	0.08	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.12	0.05	mg/L P	11/25/92	DIH

03/22

Sample: 06F Metals Rec. "B-C"/67 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/09/92	JB
Corrosivity (pH)	6.935		S.U.	11/24/92	JK

Sample: 07A Metals Rec. "B-C"/73 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	2.7	0.2	mg/kg As	11/30/92	TAS
Barium, Total	74	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.5	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	23,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	170	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	3	1	mg/kg Co	12/09/92	JBC
Copper, Total	38	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	1.3	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	11/22/92	WMW
Lead, Total	10	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	910	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	2300	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	20	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	25	2	mg/kg Ni	12/09/92	JBC
Percent Solids	91	1	% wt.	11/19/92	KHA
Phosphorus, Total	<2.5	2.5	mg/kg P	11/21/92	SMC
Potassium, Total	400	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	560	0.5	mg/kg Zn	12/09/92	JBC

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample: 07E Metals Rec. "B-C"/73 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/ 3/92	DIH
Biochemical Oxygen Demand	5	3	mg/L O2	11/25/92	SMC
Chloride, Leachable	5	2	mg/L Cl	11/30/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/24/92	JK
Fluoride, Leachable	<0.1	0.1	mg/L F	12/01/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/24/92	JK
Nitrate, Leachable	0.13	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.32	0.05	mg/L P	11/25/92	DIH

Sample: 07F Metals Rec. "B-C"/73 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/09/92	JB
Corrosivity (pH)	9.172		S.U.	11/24/92	JK

Sample: 08A Metals Rec. "B-C"/58 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	4.2	0.2	mg/kg As	11/30/92	TAS
Barium, Total	87	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	1	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	18,000	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	200	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	5	1	mg/kg Co	12/09/92	JBC
Copper, Total	56	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	0.7	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	11/22/92	WMW
Lead, Total	20	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	820	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	2000	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	40	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	68	2	mg/kg Ni	12/09/92	JBC
Percent Solids	92	1	% wt.	11/19/92	KHA

037624

Test Description	Result	Det Limit	Units	Analyzed	By
Phosphorus, Total	<2.5	2.5	mg/kg P	11/21/92	SMC
Potassium, Total	300	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	200	25	mg/kg Na	12/09/92	JBC
Zinc, Total	370	0.5	mg/kg Zn	12/09/92	JBC

Sample: 08E Metals Rec. "B-C"/58 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.4	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.2	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.06	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.10	0.05	mg/L P	12/03/92	SMC

Sample: 08F Metals Rec. "B-C"/58 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/09/92	JB
Corrosivity (pH)	6.588		S.U.	12/02/92	JK

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/82** Collected: **11/16/92 13:10** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27826
INSTRMT: FINN2 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT		DET LIMIT
71-43-2	Benzene	**BDL**		5
75-27-4	Bromodichloromethane	**BDL**		5
75-25-2	Bromoform	**BDL**		5
74-83-9	Bromomethane	**BDL**		10
56-23-5	Carbon tetrachloride	**BDL**		5
108-90-7	Chlorobenzene	**BDL**		5
75-00-3	Chloroethane	**BDL**		10
110-75-8	2-Chloroethylvinyl ether	**BDL**		10
67-66-3	Chloroform	**BDL**		5
74-87-3	Chloromethane	**BDL**		10
124-48-1	Dibromochloromethane	**BDL**		5
75-71-8	Dichlorodifluoromethane	**BDL**		5
75-34-3	1,1-Dichloroethane	**BDL**		5
107-06-2	1,2-Dichloroethane	**BDL**		5
75-35-4	1,1-Dichloroethene	**BDL**		5
156-60-5	trans-1,2-Dichloroethene	**BDL**		5
78-87-5	1,2-Dichloropropane	**BDL**		5
10061-01-5	cis-1,3-Dichloropropene	**BDL**		5
10061-02-6	trans-1,3-Dichloropropene	**BDL**		5
100-41-4	Ethyl benzene	**BDL**		5
75-09-2	Methylene chloride		**59**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**		5
127-18-4	Tetrachloroethene	**BDL**		5
75-69-4	Trichlorofluoromethane	**BDL**		10
79-01-6	Trichloroethene	**BDL**		5
71-55-6	1,1,1-Trichloroethane	**BDL**		5
79-00-5	1,1,2-Trichloroethane	**BDL**		5
108-88-3	Toluene	**BDL**		5
75-01-4	Vinyl chloride	**BDL**		10
1330-20-7	Xylenes, Total	**BDL**		5
51-79-6	Urethane		**ND**	

Sample Description: **Metals Rec. "B-C"/82** Collected: **11/16/92 13:10** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	116	% Recovery
Toluene-d8	111	% Recovery
p-Bromofluorobenzene	83	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

Sample Description: **Metals Rec. "B-C"/82** Collected: **11/16/92 13:10** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **05C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/21/92 FILE #: 1NO21028
INSTRMT: FINN1 INJECTED: 12/01/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**910**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	90 % Recovery	2-Fluorobiphenyl	83 % Recovery
Phenol-d5	85 % Recovery	2,4,6-Tribromophenol	88 % Recovery
Nitrobenzene-d5	77 % Recovery	p-Terphenyl-d14	95 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037648

Sample Description: **Metals Rec. "B-C"/82** Collected: **11/16/92 13:10** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **05D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**<0.2**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**6.1**	500.0
	50-00-0	Formaldehyde	**1.1 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/82** Collected: **11/16/92 13:10** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **05F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/20/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/21/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037650

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/67** Collected: **11/16/92 13:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27827
INSTRMT: FINN2 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT		DET LIMIT
71-43-2	Benzene	**BDL**		5
75-27-4	Bromodichloromethane	**BDL**		5
75-25-2	Bromoform	**BDL**		5
74-83-9	Bromomethane	**BDL**		10
56-23-5	Carbon tetrachloride	**BDL**		5
108-90-7	Chlorobenzene	**BDL**		5
75-00-3	Chloroethane	**BDL**		10
110-75-8	2-Chloroethylvinyl ether	**BDL**		10
67-66-3	Chloroform	**BDL**		5
74-87-3	Chloromethane	**BDL**		10
124-48-1	Dibromochloromethane	**BDL**		5
75-71-8	Dichlorodifluoromethane	**BDL**		5
75-34-3	1,1-Dichloroethane	**BDL**		5
107-06-2	1,2-Dichloroethane	**BDL**		5
75-35-4	1,1-Dichloroethene	**BDL**		5
156-60-5	trans-1,2-Dichloroethene	**BDL**		5
78-87-5	1,2-Dichloropropane	**BDL**		5
10061-01-5	cis-1,3-Dichloropropene	**BDL**		5
10061-02-6	trans-1,3-Dichloropropene	**BDL**		5
100-41-4	Ethyl benzene	**BDL**		5
75-09-2	Methylene chloride		**6**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**		5
127-18-4	Tetrachloroethene	**BDL**		5
75-69-4	Trichlorofluoromethane	**BDL**		10
79-01-6	Trichloroethene	**BDL**		5
71-55-6	1,1,1-Trichloroethane	**BDL**		5
79-00-5	1,1,2-Trichloroethane	**BDL**		5
108-88-3	Toluene	**BDL**		5
75-01-4	Vinyl chloride	**BDL**		10
1330-20-7	Xylenes, Total	**BDL**		5
51-79-6	Urethane		**ND**	

037651

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/67** Collected: **11/16/92 13:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	146 *	% Recovery
Toluene-d8	115	% Recovery
p-Bromofluorobenzene	84	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037652

Sample Description: **Metals Rec. "B-C"/67** Collected: **11/16/92 13:15** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **06C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/21/92 FILE #: 1NO21029
INSTRMT: FINN1 INJECTED: 12/01/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	60
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**560**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**3400**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**170 ***	

SURROGATES

2-Fluorophenol	92 % Recovery	2-Fluorobiphenyl	79 % Recovery
Phenol-d5	82 % Recovery	2,4,6-Tribromophenol	82 % Recovery
Nitrobenzene-d5	76 % Recovery	p-Terphenyl-d14	97 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

037653

Sample Description: **Metals Rec. "B-C"/67** Collected: **11/16/92 13:15** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **06D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**<0.2**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**4.3**	500.0
	50-00-0	Formaldehyde	**1.6 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037654

Sample Description: **Metals Rec. "B-C"/67** Collected: **11/16/92 13:15** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **06F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/20/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/21/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037655

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/73** Collected: **11/16/92 13:20** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

ANALYST: TLD FILE #: 3GM24613
INSTRMT: FINN3 INJECTED: 11/25/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**37**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**BDL**	5
51-79-6	Urethane	**ND**	

037656

Sample Description: **Metals Rec. "B-C"/73** Collected: **11/16/92 13:20** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	114	% Recovery
Toluene-d8	128 *	% Recovery
p-Bromofluorobenzene	78	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **Metals Rec. "B-C"/73** Collected: **11/16/92 13:20** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **07C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/21/92 FILE #: 1NO21030
INSTRMT: FINN1 INJECTED: 12/01/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**1000**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**690**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	89 % Recovery	2-Fluorobiphenyl	75 % Recovery
Phenol-d5	77 % Recovery	2,4,6-Tribromophenol	77 % Recovery
Nitrobenzene-d5	75 % Recovery	p-Terphenyl-d14	89 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037658

Sample Description: **Metals Rec. "B-C"/73** Collected: **11/16/92 13:20** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **07D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	17	500.0
	50-00-0	Formaldehyde	0.56 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037659

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/73** Collected: **11/16/92 13:20** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **07F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/20/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/21/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037660

Sample Description: **Metals Rec. "B-C"/58** Collected: **11/16/92 13:27** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

ANALYST: TLD FILE #: 3GM24614
INSTRMT: FINN3 INJECTED: 11/25/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET	LIMIT
71-43-2	Benzene	**BDL**		5
75-27-4	Bromodichloromethane	**BDL**		5
75-25-2	Bromoform	**BDL**		5
74-83-9	Bromomethane	**BDL**		10
56-23-5	Carbon tetrachloride	**BDL**		5
108-90-7	Chlorobenzene	**BDL**		5
75-00-3	Chloroethane	**BDL**		10
110-75-8	2-Chloroethylvinyl ether	**BDL**		10
67-66-3	Chloroform	**BDL**		5
74-87-3	Chloromethane	**BDL**		10
124-48-1	Dibromochloromethane	**BDL**		5
75-71-8	Dichlorodifluoromethane	**BDL**		5
75-34-3	1,1-Dichloroethane	**BDL**		5
107-06-2	1,2-Dichloroethane	**BDL**		5
75-35-4	1,1-Dichloroethene	**BDL**		5
156-60-5	trans-1,2-Dichloroethene	**BDL**		5
78-87-5	1,2-Dichloropropane	**BDL**		5
10061-01-5	cis-1,3-Dichloropropene	**BDL**		5
10061-02-6	trans-1,3-Dichloropropene	**BDL**		5
100-41-4	Ethyl benzene	**BDL**		5
75-09-2	Methylene chloride		**42**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**		5
127-18-4	Tetrachloroethene	**BDL**		5
75-69-4	Trichlorofluoromethane	**BDL**		10
79-01-6	Trichloroethene	**BDL**		5
71-55-6	1,1,1-Trichloroethane	**BDL**		5
79-00-5	1,1,2-Trichloroethane	**BDL**		5
108-88-3	Toluene	**BDL**		5
75-01-4	Vinyl chloride	**BDL**		10
1330-20-7	Xylenes, Total	**BDL**		5
51-79-6	Urethane		**ND**	

Sample Description: **Metals Rec. "B-C"/58** Collected: **11/16/92 13:27** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	118	% Recovery
Toluene-d8	134 *	% Recovery
p-Bromofluorobenzene	77	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

037662

Sample Description: **Metals Rec. "B-C"/58** Collected: **11/16/92 13:27** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **08C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/21/92 FILE #: 1NO21031
INSTRMT: FINN1 INJECTED: 12/01/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**870**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**ND**	

SURROGATES

2-Fluorophenol	82 % Recovery	2-Fluorobiphenyl	84 % Recovery
Phenol-d5	76 % Recovery	2,4,6-Tribromophenol	74 % Recovery
Nitrobenzene-d5	73 % Recovery	p-Terphenyl-d14	84 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037663

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Metals Rec. "B-C"/58** Collected: **11/16/92 13:27** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **08D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	4.9	500.0
	50-00-0	Formaldehyde	1.2 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037664

Sample Description: **Metals Rec. "B-C"/58** Collected: **11/16/92 13:27** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **08F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/20/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/21/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037665

Sampling of Solid Wastes
collected 10/13/93

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N3-10-276
Date: 11/19/93 14:55
Work ID: GM-Metals Reclamation "A"
Date Received: 10/15/93
Date Completed: 11/12/93
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	MRA-1
02	MRA-2
03	MRA-3
04	MRA-4
05	MRA-4 MS
06	MRA-4 MSD
07	MRA-5
08	MRA-6
09	MRA-7
10	MRA-8

All results on soils/sludges are reported "AS RECEIVED" unless otherwise specified. This report shall not be reproduced except in full, without the written approval of KEMRON.

Leslie Bucina

Certified By
Leslie Bucina

KEMRON ENVIRONMENTAL SERVICES

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample: 01A MRA-1 Collected: 10/13/93 Category: SOLID
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	5300	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	17	0.2	mg/kg As	11/03/93	JEC
Barium, Total	41	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.09	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	31,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	49	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	2	1	mg/kg Co	10/28/93	JBC
Copper, Total	9	1	mg/kg Cu	10/26/93	JBC
Iron, Total	41,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	8.4	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	3800	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	1200	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	20	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	300	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	310	0.5	mg/kg Zn	10/26/93	JBC

Sample: 01B MRA-1 **Collected: 10/13/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	93	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 01E MRA-1 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/20/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	1.9	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 01F MRA-1 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	9.35		S.U.	10/19/93	JMK
Formaldehyde	3200	400	UG/KG	10/19/93	GVR

Sample: 01G MRA-1 **Collected: 10/13/93** **Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 02A MRA-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	3200	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	6.2	0.2	mg/kg As	11/03/93	JEC
Barium, Total	42	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.08	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	21,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	66	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	1	1	mg/kg Co	10/28/93	JBC
Copper, Total	13	1	mg/kg Cu	10/26/93	JBC
Iron, Total	22,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	8.4	0.25	mg/kg Pb	11/02/93	TAS

Test Description	Result	Det Limit	Units	Analyzed	By
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	2900	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	2100	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	27	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	400	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	160	0.5	mg/kg Zn	10/26/93	JBC

Sample: 02B MRA-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	93	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 02E MRA-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/20/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	1.7	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 02F MRA-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	-	1.0	Percent	10/15/93	JR

Test Description	Result	Det Limit	Units	Analyzed	By
Corrosivity (pH)	9.33		S.U.	10/19/93	JMK
Formaldehyde	20,000	400	UG/KG	10/19/93	GVR

Sample: 02G MRA-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 03A MRA-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	2100	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	2	0.2	mg/kg As	11/03/93	JEC
Barium, Total	48	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.08	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	10,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	74	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	20	1	mg/kg Cu	10/26/93	JBC
Iron, Total	26,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	9.9	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	780	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	880	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	20	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	200	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	100	25	mg/kg Na	10/27/93	JBC
Zinc, Total	280	0.5	mg/kg Zn	10/26/93	JBC

Sample: 03B MRA-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR

Test Description	Result	Det Limit	Units	Analyzed	By
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	96	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 03E MRA-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	3	3	mg/L O2	10/20/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 03F MRA-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	9.93		S.U.	10/19/93	JMK
Formaldehyde	1200	400	UG/KG	10/19/93	GVR

Sample: 03G MRA-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 04A MRA-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	5800	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	2.8	0.2	mg/kg As	11/03/93	JEC
Barium, Total	[illegible]	0.5	mg/kg Ba	10/26/93	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Cadmium, Total	0.2	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	20,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	120	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	50	1	mg/kg Cu	10/26/93	JBC
Iron, Total	36,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	18	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	1300	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	1300	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	23	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	300	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	640	0.5	mg/kg Zn	10/26/93	JBC

Sample: 04B MRA-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	95	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 04E MRA-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/20/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	1.0	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK

Test Description	Result	Det Limit	Units	Analyzed	By
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 04F MRA-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	10.11		S.U.	10/19/93	JMK
Formaldehyde	40,000	400	UG/KG	10/19/93	GVR

Sample: 04G MRA-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 05A MRA-4 MS **Collected: 10/13/93** **Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	88	5	% Recovery	10/26/93	JBC
Arsenic, Total	80	0.2	% Recovery	11/03/93	JEC
Barium, Total	104	0.5	% Recovery	10/26/93	JBC
Cadmium, Total	100	0.025	% Recovery	11/02/93	TAS
Calcium, Total	98	10	% Recovery	10/27/93	JBC
Chromium, Total	103	1	% Recovery	10/26/93	JBC
Cobalt, Total	100	1	% Recovery	10/28/93	JBC
Copper, Total	102	1	% Recovery	10/26/93	JBC
Iron, Total	93	2	% Recovery	10/27/93	JBC
Lead, Total	90	0.25	% Recovery	11/02/93	TAS
Lithium, Total	92	5	% Recovery	10/27/93	JBC
Magnesium, Total	103	25	% Recovery	10/27/93	JBC
Manganese, Total	86	0.5	% Recovery	10/26/93	JBC
Mercury, Total	88	0.25	% Recovery	11/01/93	TAS
Nickel, Total	99	2	% Recovery	10/26/93	JBC
Potassium, Total	102	50	% Recovery	10/27/93	JBC
Selenium, Total	74	0.2	% Recovery	11/05/93	TAS
Silver, Total	90	0.2	% Recovery	10/28/93	JBC
Sodium, Total	101	25	% Recovery	10/27/93	JBC
[illegible]c, Total	[illegible]	0.5	% Recovery	10/26/93	JB[illegible]

Sample: 05B MRA-4 MS **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	103	0.5	% Recovery	10/23/93	JWR
Ignitability	NA		Degrees C		
Percent Solids	95	1	% wt.	10/22/93	DJP
Phosphorus, Total	**	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	NA	10	mg/kg HCN		
Reactivity, Sulfide	NA	100	mg/kg H2S	11/03/93	SMC

Sample: 05E MRA-4 MS **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	94	0.1	% Recovery	10/25/93	REB
Biochemical Oxygen Demand	100	3	% Recovery	10/20/93	DIH
Chromium, Hexavalent	NA	0.05	mg/L Cr		
Fluoride, Leachable	107	0.5	% Recovery	10/21/93	JMK
Hypochlorite, Leachable	100	0.2	% Recovery	10/19/93	JMK
Nitrate, Leachable	109	1	% Recovery	10/21/93	JMK
Orthophosphate, Leachable	NA	5	mg/L P		

Sample: 05F MRA-4 MS **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	NA	1.0	Percent		
Corrosivity (pH)	NA		S.U.		
Formaldehyde	100	400	% Recovery	10/19/93	GVR

Sample: 05G MRA-4 MS **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	NA		UG/L		

Sample: 06A MRA-4 MSD **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	94	5	% Recovery	10/26/93	JBC
Arsenic, Total	80	0.2	% Recovery	11/03/93	JEC
Barium, Total	100	0.5	% Recovery	10/26/93	JBC
Cadmium, Total	102	0.025	% Recovery	11/02/93	TAS

Test Description	Result	Det Limit	Units	Analyzed	By
Calcium, Total	96	10	% Recovery	10/27/93	JBC
Chromium, Total	100	1	% Recovery	10/26/93	JBC
Cobalt, Total	100	1	% Recovery	10/28/93	JBC
Copper, Total	101	1	% Recovery	10/26/93	JBC
Iron, Total	98	2	% Recovery	10/27/93	JBC
Lead, Total	86	0.25	% Recovery	11/02/93	TAS
Lithium, Total	91	5	% Recovery	10/27/93	JBC
Magnesium, Total	98	25	% Recovery	10/27/93	JBC
Manganese, Total	95	0.5	% Recovery	10/26/93	JBC
Mercury, Total	86	0.25	% Recovery	11/01/93	TAS
Nickel, Total	101	2	% Recovery	10/26/93	JBC
Potassium, Total	102	50	% Recovery	10/27/93	JBC
Selenium, Total	72	0.2	% Recovery	11/05/93	TAS
Silver, Total	106	0.2	% Recovery	10/28/93	JBC
Sodium, Total	102	25	% Recovery	10/27/93	JBC
Zinc, Total	91	0.5	% Recovery	10/26/93	JBC

Sample: 06B MRA-4 MSD **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	101	0.5	% Recovery	10/23/93	JWR
Ignitability	NA		Degrees C		
Percent Solids	95	1	% wt.	10/22/93	DJP
Phosphorus, Total	**	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	NA	10	mg/kg HCN		
Reactivity, Sulfide	NA	100	mg/kg H2S	11/03/93	SMC

Sample: 06E MRA-4 MSD **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	94	0.1	% Recovery	10/25/93	REB
Biochemical Oxygen Demand	101	3	% Recovery	10/20/93	DIH
Chromium, Hexavalent	NA	0.05	mg/L Cr		
Fluoride, Leachable	107	0.5	% Recovery	10/21/93	JMK
Hypochlorite, Leachable	*	0.2	mg/L CL2		
Nitrate, Leachable	98	1	% Recovery	10/21/93	JMK
Orthophosphate, Leachable	NA	5	mg/L P		

Sample: 06F MRA-4 MSD **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	NA	1.0	Percent		
Corrosivity (pH)	NA		S.U.		
Formaldehyde	100	400	% Recovery	10/19/93	GVR

Sample: 06G MRA-4 MSD **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	NA		UG/L		

Sample: 07A MRA-5 **Collected: 10/13/93 Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 08A MRA-6 **Collected: 10/13/93 Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/22/93	GVR

Sample: 09A MRA-7 **Collected: 10/13/93 Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	83	20	% Recovery	10/22/93	GVR

Sample: 10A MRA-8 **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	88	20	% Recovery	10/22/93	GVR

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01C** Category: **SOLID**

ANALYST: PNW FILE #: 3GM31295
INSTRMT: FINN3 INJECTED: 10/20/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	16	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	96	% Recovery
Toluene-d8	135 *	% Recovery
p-Bromofluorobenzene	81	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **01D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 005F0101
INSTRMT: HP_IV INJECTED: 10/26/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	52	% Recovery
2,4,5,6-tetrachloro-m-xylene	81	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01D** Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25497
INSTRMT: FINN1 INJECTED: 01/28/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	ND	660
59-50-7	4-Chloro-3-methylphenol	ND	160
95-57-8	2-Chlorophenol	ND	160
120-83-2	2,4-Dichlorophenol	ND	160
105-67-9	2,4-Dimethylphenol	ND	160
51-28-5	2,4-Dinitrophenol	ND	825
534-52-1	2-Methyl-4,6-dinitrophenol	ND	825
88-75-5	2-Nitrophenol	ND	160
100-02-7	4-Nitrophenol	ND	825
87-86-5	Pentachlorophenol	ND	825
108-95-2	Phenol	ND	160
95-95-4	2,4,5-Trichlorophenol	ND	825
88-06-2	2,4,6-Trichlorophenol	ND	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	NF

Sample Description: MRA-1 Collected: 10/13/93 09:15 Method: 8270
Test Description: Semivolatile Compounds Test Code: GM827 Lab No: 01D Category: SOLID

SURROGATES	
2-Fluorophenol	81 % Recovery
Phenol-d6	75 % Recovery
Nitrobenzene-d5	77 % Recovery
2-Fluorobiphenyl	78 % Recovery
2,4,6-Tribromophenol	80 % Recovery
p-Terphenyl-d14	91 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **01G** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.01**	0.0020
7440-39-3	Barium	**0.22**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.06**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-1** Collected: 10/13/93 09:15 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: 01G Category: SOLID

ANALYST: SDF FILE #: 2GM33646
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-1** Collected: **10/13/93 09:15** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **01G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	93	% Recovery
Toluene-d8	105	% Recovery
p-Bromofluorobenzene	103	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: MRA-2 Collected: 10/13/93 09:30 Method: 8260
Test Description: Volatile Organics Test Code: GM826 Lab No: 02C Category: SOLID

ANALYST: PNW FILE #: 3GM31329
INSTRMT: FINN3 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	18	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRA-2
Test Description: Volatile Organics

Collected: 10/13/93 09:30 Method: 8260
Test Code: GM826 Lab No: 02C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	NF

SURROGATES		
1,2-Dichloroethane-d4	110	% Recovery
Toluene-d8	135 *	% Recovery
p-Bromofluorobenzene	78	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

KEMRON ENVIR ıENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-2** Collected: 10/13/93 09:30 Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: PCB_S Lab No: 02D Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 006F0101
INSTRMT: HP_IV INJECTED: 10/26/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	53 % Recovery
2,4,5,6-tetrachloro-m-xylene	76 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRA-2** Collected: **10/13/93 09:30** Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **02D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25509
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**860**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**ND**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**NF**

Sample Description: **MRA-2** Collected: 10/13/93 09:30 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 02D Category: SOLID

SURROGATES		
2-Fluorophenol	87	% Recovery
Phenol-d6	79	% Recovery
Nitrobenzene-d5	79	% Recovery
2-Fluorobiphenyl	75	% Recovery
2,4,6-Tribromophenol	72	% Recovery
p-Terphenyl-d14	95	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-2** Collected: **10/13/93 09:30** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **02G** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.002**	0.0020
7440-39-3	Barium	**0.22**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.13**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-2** Collected: **10/13/93 09:30** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **02G** Category: **SOLID**

ANALYST: DF FILE #: 2GM33647
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET	LIMIT
71-43-2	Benzene	ND		5
75-27-4	Bromodichloromethane	ND		5
75-25-2	Bromoform	ND		5
74-83-9	Bromomethane	ND		10
56-23-5	Carbon tetrachloride	ND		5
108-90-7	Chlorobenzene	ND		5
75-00-3	Chloroethane	ND		10
110-75-8	2-Chloroethyl vinyl ether	ND		10
67-66-3	Chloroform	ND		5
74-87-3	Chloromethane	ND		10
124-48-1	Dibromochloromethane	ND		5
95-50-1	1,2-Dichlorobenzene	ND		5
541-73-1	1,3-Dichlorobenzene	ND		5
106-46-7	1,4-Dichlorobenzene	ND		5
75-71-8	Dichlorodifluoromethane	ND		5
75-34-3	1,1-Dichloroethane	ND		5
107-06-2	1,2-Dichloroethane	ND		5
75-35-4	1,1-Dichloroethene	ND		5
156-60-5	trans-1,2-Dichloroethene	ND		5
78-87-5	1,2-Dichloropropane	ND		5
10061-01-5	cis-1,3-Dichloropropene	ND		5
10061-02-6	trans-1,3-Dichloropropene	ND		5
100-41-4	Ethyl benzene	ND		5
75-09-2	Methylene chloride		8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND		5
127-18-4	Tetrachloroethene	ND		5
75-69-4	Trichlorofluoromethane	ND		10
79-01-6	Trichloroethene	ND		5
71-55-6	1,1,1-Trichloroethane	ND		5
79-00-5	1,1,2-Trichloroethane	ND		5
108-88-3	Toluene	ND		5
75-01-4	Vinyl chloride	ND		10
1330-20-7	Xylenes, Total	ND		5

Sample Description: **MRA-2**
Test Description: **SPLP Volatiles - GM**

Collected: **10/13/93 09:30** Method: **8260**
Test Code: **GMSLVO** Lab No: **02G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	93	% Recovery
Toluene-d8	102	% Recovery
p-Bromofluorobenzene	97	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-3** Collected: 10/13/93 09:45 Method: 8260
Test Description: **Volatile Organics** Test Code: GM826 Lab No: 03C Category: SOLID

ANALYST: PNW FILE #: 3GM31330
INSTRMT: FINN3 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	13	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-3**
Test Description: **Volatile Organics**

Collected: **10/13/93 09:45** Method: **8260**
Test Code: **GM826** Lab No: **03C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	107	% Recovery
Toluene-d8	110	% Recovery
p-Bromofluorobenzene	89	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-3** Collected: **10/13/93 09:45** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **03D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 011F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**31**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	52 % Recovery
2,4,5,6-tetrachloro-m-xylene	74 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRA-3** Collected: **10/13/93 09:45** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **03D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25510
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**620**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**NF**

Sample Description: **MRA-3** Collected: 10/13/93 09:45 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 03D Category: SOLID

SURROGATES		
2-Fluorophenol	91	% Recovery
Phenol-d6	85	% Recovery
Nitrobenzene-d5	87	% Recovery
2-Fluorobiphenyl	81	% Recovery
2,4,6-Tribromophenol	81	% Recovery
p-Terphenyl-d14	106	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-3** Collected: **10/13/93 09:45** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **03G** Category: **SOLID**

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.18**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.08**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRA-3 Collected: 10/13/93 09:45 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 03G Category: SOLID

ANALYST: SDF FILE #: 2GM33648
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-3** Collected: **10/13/93 09:45** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **03G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	96	% Recovery
Toluene-d8	104	% Recovery
p-Bromofluorobenzene	99	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRA-4 Collected: 10/13/93 09:55 Method: 8260
Test Description: Volatile Organics Test Code: GM826 Lab No: 04C Category: SOLID

ANALYST: TLD FILE #: 3GM31251
INSTRMT: FINN3 INJECTED: 10/19/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	7	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	20	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-4**
Test Description: **Volatile Organics**

Collected: **10/13/93 09:55** Method: **8260**
Test Code: **GM826** Lab No: **04C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	108	% Recovery
Toluene-d8	108	% Recovery
p-Bromofluorobenzene	98	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-4** Collected: 10/13/93 09:55 Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: PCB_S Lab No: 04D Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 012F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**71**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**79**	33

SURROGATES

Decachlorobiphenyl	53 % Recovery
2,4,5,6-tetrachloro-m-xylene	72 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRA-4** Collected: **10/13/93 09:55** Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25511
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**1200**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**300**

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-4** Collected: 10/13/93 09:55 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 04D Category: SOLID

SURROGATES		
2-Fluorophenol	90	% Recovery
Phenol-d6	82	% Recovery
Nitrobenzene-d5	79	% Recovery
2-Fluorobiphenyl	77	% Recovery
2,4,6-Tribromophenol	82	% Recovery
p-Terphenyl-d14	101	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **MRA-4** Collected: **10/13/93 09:55** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **04G** Category: **SOLID**

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.32**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.03**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-4** Collected: 10/13/93 09:55 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **04G** Category: SOLID

ANALYST: SDF FILE #: 2GM33649
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	7	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	8	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-4** Collected: **10/13/93 09:55** Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **04G** Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	95	% Recovery
Toluene-d8	108	% Recovery
p-Bromofluorobenzene	100	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-4 MS** Collected: 10/13/93 09:55 Method: 8260
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05C** Category: SOLID

ANALYST: TLD FILE #: 3GM31252
INSTRMT: FINN3 INJECTED: 10/19/93 FACTOR: 1 UNITS: % ** VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**108**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**93**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**83**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**79**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**97**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

Sample Description: **MRA-4 MS** Collected: **10/13/93 09:55** Method: 8260
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05C** Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	113	% Recovery
Toluene-d8	109	% Recovery
p-Bromofluorobenzene	88	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
** = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-4 MS** Collected: 10/13/93 09:55 Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **05D** Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 013F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 1 UNITS: % * VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	0.50
11104-28-2	Aroclor-1221	**ND**	0.50
11141-16-5	Aroclor-1232	**ND**	0.50
53469-21-9	Aroclor-1242	**ND**	0.50
12672-29-6	Aroclor-1248	**ND**	0.50
11097-69-1	Aroclor-1254	**95**	1.0
11096-82-5	Aroclor-1260	**ND**	1.0

SURROGATES

Decachlorobiphenyl	50	% Recovery
2,4,5,6-tetrachloro-m-xylene	68	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED
* = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

Sample Description: **MRA-4 MS** Collected: 10/13/93 09:55 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: 05D Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25512
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 1 UNITS: % * VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	ND	20
59-50-7	4-Chloro-3-methylphenol	45	5
95-57-8	2-Chlorophenol	41	5
120-83-2	2,4-Dichlorophenol	ND	5
105-67-9	2,4-Dimethylphenol	ND	5
51-28-5	2,4-Dinitrophenol	ND	25
534-52-1	2-Methyl-4,6-dinitrophenol	ND	25
88-75-5	2-Nitrophenol	ND	5
100-02-7	4-Nitrophenol	48	25
87-86-5	Pentachlorophenol	33	25
108-95-2	Phenol	41	5
95-95-4	2,4,5-Trichlorophenol	ND	25
88-06-2	2,4,6-Trichlorophenol	ND	5

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	NF

Sample Description: **MRA-4 MS** Collected: 10/13/93 09:55 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 05D Category: SOLID

SURROGATES		
2-Fluorophenol	87	% Recovery
Phenol-d6	80	% Recovery
Nitrobenzene-d5	84	% Recovery
2-Fluorobiphenyl	79	% Recovery
2,4,6-Tribromophenol	81	% Recovery
p-Terphenyl-d14	102	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-4 MS** Collected: **10/13/93 09:55** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **05G** Category: **SOLID**

TCLP EXTRACTION DATE: 10/19/93
UNITS: * VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	92	0.0020
7440-39-3	Barium	98	0.010
7440-43-9	Cadmium	96	0.020
7440-47-3	Chromium	98	0.025
7440-50-8	Copper	96	0.020
7439-92-1	Lead	90	0.10
7439-97-6	Mercury	89	0.0005
7482-49-2	Selenium	106	0.0020
7440-22-4	Silver	97	0.010
7440-66-6	Zinc	96	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
* = RESULTS ARE REPORTED AS % RECOVERY

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-4 MS** Collected: 10/13/93 09:55 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: 05G Category: SOLID

ANALYST: SDF FILE #: 2GM33650
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: % ** VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	95	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	101	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	99	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	96	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	97	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-4 MS** Collected: **10/13/93 09:55** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **05G** Category: **SOLID**

SURROGATES	
1,2-Dichloroethane-d4	96 % Recovery
Toluene-d8	102 % Recovery
p-Bromofluorobenzene	98 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
** = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/L AND DO NOT APPLY TO % LEVELS REPORTED.

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-4 MSD** Collected: 10/13/93 09:55 Method: 8260
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06C** Category: SOLID

ANALYST: TLD FILE #: 3GM31253
INSTRMT: FINN3 INJECTED: 10/19/93 FACTOR: 1 UNITS: % ** VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**101**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**87**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**71**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**65**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**86**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

Sample Description: **MRA-4 MSD**
Test Description: **Volatile Organics**

Collected: 10/13/93 09:55 Method: 8260
Test Code: GM826 Lab No: 06C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES

1,2-Dichloroethane-d4	108	% Recovery
Toluene-d8	103	% Recovery
p-Bromofluorobenzene	90	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
** = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

Sample Description: **MRA-4 MSD** Collected: 10/13/93 09:55 Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: PCB_S Lab No: 06D Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 014F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 1 UNITS: % * VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	ND	0.50
11104-28-2	Aroclor-1221	ND	0.50
11141-16-5	Aroclor-1232	ND	0.50
53469-21-9	Aroclor-1242	ND	0.50
12672-29-6	Aroclor-1248	ND	0.50
11097-69-1	Aroclor-1254	97	1.0
11096-82-5	Aroclor-1260	ND	1.0

SURROGATES

Decachlorobiphenyl	54 % Recovery
2,4,5,6-tetrachloro-m-xylene	74 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED
* = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

Sample Description: **MRA-4 MSD** Collected: **10/13/93 09:55** Method: 8270
Test Description: **Semivolatile** Compounds Test Code: **GM827** Lab No: **06D** Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25513
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 1 UNITS: % * VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	20
59-50-7	4-Chloro-3-methylphenol	**45**	5
95-57-8	2-Chlorophenol	**39**	5
120-83-2	2,4-Dichlorophenol	**ND**	5
105-67-9	2,4-Dimethylphenol	**ND**	5
51-28-5	2,4-Dinitrophenol	**ND**	25
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	25
88-75-5	2-Nitrophenol	**ND**	5
100-02-7	4-Nitrophenol	**46**	25
87-86-5	Pentachlorophenol	**34**	25
108-95-2	Phenol	**41**	5
95-95-4	2,4,5-Trichlorophenol	**ND**	25
88-06-2	2,4,6-Trichlorophenol	**ND**	5

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**NF**

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: MRA-4 MSD
Test Description: Semivolatile Compounds

Collected: 10/13/93 09:55 Method: 8270
Test Code: GM827 Lab No: 06D Category: SOLID

SURROGATES		
2-Fluorophenol	84	% Recovery
Phenol-d6	79	% Recovery
Nitrobenzene-d5	78	% Recovery
2-Fluorobiphenyl	74	% Recovery
2,4,6-Tribromophenol	79	% Recovery
p-Terphenyl-d14	101	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REPORTED RESULST ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/KG AND DO NOT APPLY TO % LEVELS REPORTED.

Sample Description: **MRA-4 MSD** Collected: **10/13/93 09:55** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **06G** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: * VERIFIED: CL

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**94**	0.0020
7440-39-3	Barium	**100**	0.010
7440-43-9	Cadmium	**99**	0.020
7440-47-3	Chromium	**102**	0.025
7440-50-8	Copper	**99**	0.020
7439-92-1	Lead	**91**	0.10
7439-97-6	Mercury	**94**	0.0005
7482-49-2	Selenium	**104**	0.0020
7440-22-4	Silver	**101**	0.010
7440-66-6	Zinc	**100**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
* = RESULTS ARE REPORTED AS % RECOVERY

Sample Description: **MRA-4 MSD** Collected: 10/13/93 09:55 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 06G Category: SOLID

ANALYST: SDF FILE #: 2GM33051
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: % ** VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	99	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	103	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	103	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	97	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	98	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-4 MSD** Collected: 10/13/93 09:55 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 06G Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	91	% Recovery
Toluene-d8	100	% Recovery
p-Bromofluorobenzene	98	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
** = REPORTED RESULTS ARE FOR SPIKE COMPOUNDS ONLY. DETECTION LIMITS ARE REPORTED IN UG/L AND DO NOT APPLY TO % LEVELS REPORTED.

Sample Description: MRA-5 Collected: 10/13/93 09:45 Method:
Test Description: Metals (10)-SW-1312 (SPLP) Test Code: SLME10 Lab No: 07A Category: SOLID

TCLP EXTRACTION DATE: 10/15/93
UNITS: mg/L VERIFIED: CLW

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.25	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.01	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-5** Collected: 10/13/93 09:45 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 07A Category: SOLID

ANALYST: SDF FILE #: 2GM33652
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	7	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: MRA-5 Collected: 10/13/93 09:45 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 07A Category: SOLID

SURROGATES	
1,2-Dichloroethane-d4	96 % Recovery
Toluene-d8	106 % Recovery
p-Bromofluorobenzene	100 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-6** Collected: **10/13/93 10:05** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **08A** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.10	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7782-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.05	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRA-6 Collected: 10/13/93 10:05 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 08A Category: SOLID

ANALYST: SDF FILE #: 2GM33053
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: [illegible]

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRA-6**
Test Description: **SPLP Volatiles - GM**

Collected: **10/13/93 10:05** Method: **8260**
Test Code: **GMSLVO** Lab No: **08A** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	95	% Recovery
Toluene-d8	108	% Recovery
p-Bromofluorobenzene	101	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRA-7** Collected: **10/13/93 10:10** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **09A** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.26**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.02**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-7** Collected: 10/13/93 10:10 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 09A Category: SOLID

ANALYST: SDF FILE #: 2GM33654
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	10	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRA-7 Collected: 10/13/93 10:10 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 09A Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	94	% Recovery
Toluene-d8	105	% Recovery
p-Bromofluorobenzene	105	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRA-8** Collected: **10/13/93 10:20** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **10A** Category: SOLID

TCLP EXTRACTION DATE: 10/19/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.33	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.03	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRA-8 Collected: 10/13/93 10:20 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 10A Category: SOLID

ANALYST: SDF FILE #: 2GM33655
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	11	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N3-10-278
Date: 11/19/93 13:16
Work ID: GM-Metals Reclamation "B"
Date Received: 10/15/93
Date Completed: 11/11/93
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	MRB-1	05	MRB-5
02	MRB-2	06	MRB-6
03	MRB-3	07	MRB-7
04	MRB-4	08	MRB-8

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Certified By
Leslie Bucina

KEMRON
ENVIRONMENTAL SERVICES

Sample: 01A MRB-1 Collected: 10/13/93 Category: SOLID
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	2500	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	3.1	0.2	mg/kg As	11/03/93	JEC
Barium, Total	59	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.07	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	13,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	110	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	2	1	mg/kg Co	10/28/93	JBC
Copper, Total	33	1	mg/kg Cu	10/26/93	JBC
Iron, Total	47,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	12	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	1200	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	1200	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	30	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	300	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	280	0.5	mg/kg Zn	10/26/93	JBC

Sample: 01B MRB-1 Collected: 10/13/93 Category: SOLID
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	97	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 01E MRB-1 Collected: 10/13/93 Category: SOLID
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/22/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	1.14	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 01F MRB-1 Collected: 10/13/93 Category: SOLID
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	9.69		S.U.	10/20/93	JMK
Formaldehyde	2400	400	UG/KG	10/18/93	GVR

Sample: 01G MRB-1 Collected: 10/13/93 Category: SOLID
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/27/93	GVR

Sample: 02A MRB-2 Collected: 10/13/93 Category: SOLID
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	3600	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	3.2	0.2	mg/kg As	11/03/93	JEC
Barium, Total	78	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.1	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	21,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	170	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	2	1	mg/kg Co	10/28/93	JBC
Copper, Total	52	1	mg/kg Cu	10/26/93	JBC
Iron, Total	55,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	13	0.25	mg/kg Pb	11/02/93	TAS

Test Description	Result	Det Limit	Units	Analyzed	By
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	1100	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	1800	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	33	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	300	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	430	0.5	mg/kg Zn	10/26/93	JBC

Sample: 02B MRB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	93	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 02E MRB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/22/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 02F MRB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JR

Test Description	Result	Det Limit	Units	Analyzed	By
Corrosivity (pH)	9.15		S.U.	10/20/93	JMK
Formaldehyde	1000	400	UG/KG	10/18/93	GVR

Sample: 02G MRB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/27/93	GVR

Sample: 03A MRB-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	**2800**	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	4.4	0.2	mg/kg As	11/03/93	JEC
Barium, Total	71	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.07	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	14,000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	190	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	2	1	mg/kg Co	10/28/93	JBC
Copper, Total	67	1	mg/kg Cu	10/26/93	JBC
Iron, Total	54,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	9.4	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	810	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	1400	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	49	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	300	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	200	0.5	mg/kg Zn	10/26/93	JBC

Sample: 03B MRB-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR

Test Description	Result	Det Limit	Units	Analyzed	By
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	94	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 03E MRB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/22/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 03F MRB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.99		S.U.	10/20/93	JMK
Formaldehyde	16,000	400	UG/KG	10/18/93	GVR

Sample: 03G MRB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/27/93	GVR

Sample: 04A MRB-4 **Collected: 10/13/93 Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	2700	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	2.3	0.2	mg/kg As	11/03/93	JEC
Barium, Total	[illegible]	0.5	mg/kg Ba	10/26/93	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Cadmium, Total	<0.025	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	7100	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	26	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	4	1	mg/kg Co	10/28/93	JBC
Copper, Total	8	1	mg/kg Cu	10/26/93	JBC
Iron, Total	12,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	4.7	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	1100	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	680	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	8	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	200	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	0.3	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	200	25	mg/kg Na	10/27/93	JBC
Zinc, Total	88	0.5	mg/kg Zn	10/26/93	JBC

Sample: 04B MRB-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/23/93	JWR
Ignitability	>95		Degrees C	10/29/93	REB
Percent Solids	95	1	% wt.	10/22/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/23/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 04E MRB-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	3	3	mg/L O2	10/22/93	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	1.7	1	mg/L N	10/21/93	JMK

Test Description	Result	Det Limit	Units	Analyzed	By
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 04F MRB-4 Collected: 10/13/93 Category: SOLID
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	9.59		S.U.	10/20/93	JMK
Formaldehyde	9000	400	UG/KG	10/18/93	GVR

Sample: 04G MRB-4 Collected: 10/13/93 Category: SOLID
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/27/93	GVR

Sample: 05A MRB-5 Collected: 10/13/93 Category: SOLID
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	20	20	UG/L	10/27/93	GVR

Sample: 06A MRB-6 Collected: 10/13/93 Category: SOLID
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/29/93	GVR

Sample: 07A MRB-7 Collected: 10/13/93 Category: SOLID
Job: GM3 SPLP Analytes - SW1312

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/29/93	GVR

Sample: 08A MRB-8 Collected: 10/13/93 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/29/93	GVR

Sample Description: **MRB-1** Collected: **10/13/93 10:35** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33597
INSTRMT: FINN2 INJECTED: 10/19/93 FACTOR: 1 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	14	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-1 Collected: 10/13/93 10:35 Method: 8260
Test Description: Volatile Organics Test Code: GM826 Lab No: 01C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	NF

SURROGATES		
1,2-Dichloroethane-d4	100	% Recovery
Toluene-d8	115	% Recovery
p-Bromofluorobenzene	85	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

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TEST RESULTS BY SAMPLE

Sample Description: **MRB-1** Collected: **10/13/93 10:35** Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **01D** Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 015F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	ND	16
11104-28-2	Aroclor-1221	ND	16
11141-16-5	Aroclor-1232	ND	16
53469-21-9	Aroclor-1242	38	16
12672-29-6	Aroclor-1248	ND	16
11097-69-1	Aroclor-1254	ND	33
11096-82-5	Aroclor-1260	ND	33

SURROGATES

Decachlorobiphenyl	54 % Recovery
2,4,5,6-tetrachloro-m-xylene	74 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRB-1** Collected: 10/13/93 10:35 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 01D Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25517
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	ND	660
59-50-7	4-Chloro-3-methylphenol	ND	160
95-57-8	2-Chlorophenol	ND	160
120-83-2	2,4-Dichlorophenol	ND	160
105-67-9	2,4-Dimethylphenol	500	160
51-28-5	2,4-Dinitrophenol	ND	825
534-52-1	2-Methyl-4,6-dinitrophenol	ND	825
88-75-5	2-Nitrophenol	ND	160
100-02-7	4-Nitrophenol	ND	825
87-86-5	Pentachlorophenol	ND	825
108-95-2	Phenol	2600	160
95-95-4	2,4,5-Trichlorophenol	ND	825
88-06-2	2,4,6-Trichlorophenol	ND	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	900 *

Sample Description: **MRB-1** Collected: **10/13/93 10:35** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01D** Category: **SOLID**

SURROGATES		
2-Fluorophenol	90	% Recovery
Phenol-d6	85	% Recovery
Nitrobenzene-d5	85	% Recovery
2-Fluorobiphenyl	77	% Recovery
2,4,6-Tribromophenol	78	% Recovery
p-Terphenyl-d14	108	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

Sample Description: **MRB-1** Collected: 10/13/93 10:35 Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **01G** Category: SOLID

TCLP EXTRACTION DATE: 10/24/93
UNITS: mg/L VERIFIED: CL

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.28**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**ND**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-1** Collected: **10/13/93 10:35** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **01G** Category: SOLID

ANALYST: SDF FILE #: 2GM33690
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	9	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-1 Collected: 10/13/93 10:35 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 01G Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	100	% Recovery
Toluene-d8	107	% Recovery
p-Bromofluorobenzene	98	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-2** Collected: **10/13/93 10:42** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **02C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33598
INSTRMT: FINN2 INJECTED: 10/19/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	14	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-2 Collected: 10/13/93 10:42 Method: 8260
Test Description: Volatile Organics Test Code: GM826 Lab No: 02C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	NF

SURROGATES		
1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	131 *	% Recovery
p-Bromofluorobenzene	82	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: MRB-2 Collected: 10/13/93 10:42 Method: 8080
Test Description: Polychlorinated Biphenyls Test Code: PCB_S Lab No: 02D Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 016F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	ND	16
11104-28-2	Aroclor-1221	ND	16
11141-16-5	Aroclor-1232	ND	16
53469-21-9	Aroclor-1242	32	16
12672-29-6	Aroclor-1248	ND	16
11097-69-1	Aroclor-1254	ND	33
11096-82-5	Aroclor-1260	ND	33

SURROGATES

Decachlorobiphenyl	56 % Recovery
2,4,5,6-tetrachloro-m-xylene	79 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRB-2** Collected: 10/13/93 10:42 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 02D Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25514
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED:

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	ND	660
59-50-7	4-Chloro-3-methylphenol	ND	160
95-57-8	2-Chlorophenol	ND	160
120-83-2	2,4-Dichlorophenol	ND	160
105-67-9	2,4-Dimethylphenol	ND	160
51-28-5	2,4-Dinitrophenol	ND	825
534-52-1	2-Methyl-4,6-dinitrophenol	ND	825
88-75-5	2-Nitrophenol	ND	160
100-02-7	4-Nitrophenol	ND	825
87-86-5	Pentachlorophenol	ND	825
108-95-2	Phenol	600	160
95-95-4	2,4,5-Trichlorophenol	ND	825
88-06-2	2,4,6-Trichlorophenol	ND	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	300 *

Sample Description: **MRB-2** Collected: 10/13/93 10:42 Method: 8270
Test Description: **Semivolatile** Compounds Test Code: GM827 Lab No: 02D Category: SOLID

SURROGATES	
2-Fluorophenol	82 % Recovery
Phenol-d6	76 % Recovery
Nitrobenzene-d5	76 % Recovery
2-Fluorobiphenyl	75 % Recovery
2,4,6-Tribromophenol	80 % Recovery
p-Terphenyl-d14	97 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

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TEST RESULTS BY SAMPLE

Sample Description: MRB-2 Collected: 10/13/93 10:42 Method:
Test Description: Metals (10)-SW-1312 (SPLP) Test Code: SLME10 Lab No: 02G Category: SOLID

TCLP EXTRACTION DATE: [illegible]
UNITS: mg/L VERIFIED: [illegible]

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.30	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.09	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-2** Collected: 10/13/93 10:42 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 02G Category: SOLID

ANALYST: SDF FILE #: 2GM33693
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	11	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRB-2**
Test Description: **SPLP Volatiles - GM**

Collected: 10/13/93 10:42 Method: 8260
Test Code: GMSLVO Lab No: 02G Category: SOLID

SURROGATES	
1,2-Dichloroethane-d4	97 % Recovery
Toluene-d8	102 % Recovery
p-Bromofluorobenzene	95 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-3** Collected: 10/13/93 10:55 Method: 8260
Test Description: **Volatile Organics** Test Code: GM826 Lab No: 03C Category: SOLID

ANALYST: SDF FILE #: 2GM33599
INSTRMT: FINN2 INJECTED: 10/19/93 FACTOR: 1 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	6	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-3 Collected: 10/13/93 10:55 Method: 8260
Test Description: Volatile Organics Test Code: GM826 Lab No: 03C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	NF

SURROGATES		
1,2-Dichloroethane-d4	101	% Recovery
Toluene-d8	121 *	% Recovery
p-Bromofluorobenzene	78	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **MRB-3** Collected: **10/13/93 10:55** Method: 8080
Test Description: **Polychlorinated Biphenyls** Test Code: PCB_S Lab No: 03D Category: SOLID

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 059R0101
INSTRMT: HP_IV INJECTED: 11/10/93 FACTOR: 33 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**25**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	61 % Recovery
2,4,5,6-tetrachloro-m-xylene	83 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRB-3** Collected: 10/13/93 10:55 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 03D Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25516
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED:

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**300**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**1500**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**310 ***

Sample Description: **MRB-3** Collected: 10/13/93 10:55 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: GM827 Lab No: 03D Category: SOLID

SURROGATES		
2-Fluorophenol	80	% Recovery
Phenol-d6	76	% Recovery
Nitrobenzene-d5	74	% Recovery
2-Fluorobiphenyl	72	% Recovery
2,4,6-Tribromophenol	72	% Recovery
p-Terphenyl-d14	100	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: MRB-3 Collected: 10/13/93 10:55 Method:
Test Description: Metals (10)-SW-1312 (SPLP) Test Code: SLME10 Lab No: 03G Category: SOLID

TCLP EXTRACTION DATE: 10/21/93
UNITS: mg/L VERIFIED: CL

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.24	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.02	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-3** Collected: **10/13/93 10:55** Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **03G** Category: SOLID

ANALYST: SDF FILE #: 2GM33694
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-3 Collected: 10/13/93 10:55 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 03G Category: SOLID

SURROGATES	
1,2-Dichloroethane-d4	91 % Recovery
Toluene-d8	96 % Recovery
p-Bromofluorobenzene	90 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-4** Collected: **10/13/93 11:03** Method: 8260
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04C** Category: SOLID

ANALYST: SDF FILE #: 2GM33000
INSTRMT: FINN2 INJECTED: 10/19/93 FACTOR: 1 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	14	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRB-4** Collected: 10/13/93 11:03 Method: 8260
Test Description: **Volatile Organics** Test Code: GM826 Lab No: 04C Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	NF

SURROGATES		
1,2-Dichloroethane-d4	38 *	% Recovery
Toluene-d8	122 *	% Recovery
p-Bromofluorobenzene	77	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **MRB-4** Collected: **10/13/93 11:03** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **04D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 017F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**34**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	56 % Recovery
2,4,5,6-tetrachloro-m-xylene	77 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **MRB-4** Collected: 10/13/93 11:03 Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: SOLID

ANALYST: MAH EXTRACTED: 10/22/93 FILE #: 1GM25515
INSTRMT: FINN1 INJECTED: 10/29/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	ND	660
59-50-7	4-Chloro-3-methylphenol	ND	160
95-57-8	2-Chlorophenol	ND	160
120-83-2	2,4-Dichlorophenol	ND	160
105-67-9	2,4-Dimethylphenol	**190**	160
51-28-5	2,4-Dinitrophenol	ND	825
534-52-1	2-Methyl-4,6-dinitrophenol	ND	825
88-75-5	2-Nitrophenol	ND	160
100-02-7	4-Nitrophenol	ND	825
87-86-5	Pentachlorophenol	ND	825
108-95-2	Phenol	**1400**	160
95-95-4	2,4,5-Trichlorophenol	ND	825
88-06-2	2,4,6-Trichlorophenol	ND	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**330 ***

Sample Description: **MRB-4** Collected: **10/13/93 11:03** Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: SOLID

SURROGATES	
2-Fluorophenol	83 % Recovery
Phenol-d6	78 % Recovery
Nitrobenzene-d5	77 % Recovery
2-Fluorobiphenyl	75 % Recovery
2,4,6-Tribromophenol	75 % Recovery
p-Terphenyl-d14	97 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

Sample Description: **MRB-4** Collected: 10/13/93 11:03 Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **04G** Category: SOLID

TCLP EXTRACTION DATE: [illegible]
UNITS: mg/L VERIFIED: [illegible]

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.22**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.02**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-4** Collected: **10/13/93 11:03** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **04G** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33695
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	9	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRB-4**
Test Description: **SPLP Volatiles - GM**

Collected: 10/13/93 11:03 Method: 8260
Test Code: **GMSLVO** Lab No: **04G** Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	105	% Recovery
p-Bromofluorobenzene	100	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-5** Collected: **10/13/93 11:08** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **05A** Category: SOLID

TCLP EXTRACTION DATE: 10/24/93
UNITS: mg/L VERIFIED: CL

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.30	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.03	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRB-5 Collected: 10/13/93 11:08 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 05A Category: SOLID

ANALYST: SDF FILE #: 2GM33096
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: [illegible]

CAS#	COMPOUND	RESULT	DET	LIMIT
71-43-2	Benzene	ND		5
75-27-4	Bromodichloromethane	ND		5
75-25-2	Bromoform	ND		5
74-83-9	Bromomethane	ND		10
56-23-5	Carbon tetrachloride	ND		5
108-90-7	Chlorobenzene	ND		5
75-00-3	Chloroethane	ND		10
110-75-8	2-Chloroethyl vinyl ether	ND		10
67-66-3	Chloroform	ND		5
74-87-3	Chloromethane	ND		10
124-48-1	Dibromochloromethane	ND		5
95-50-1	1,2-Dichlorobenzene	ND		5
541-73-1	1,3-Dichlorobenzene	ND		5
106-46-7	1,4-Dichlorobenzene	ND		5
75-71-8	Dichlorodifluoromethane	ND		5
75-34-3	1,1-Dichloroethane	ND		5
107-06-2	1,2-Dichloroethane	ND		5
75-35-4	1,1-Dichloroethene	ND		5
156-60-5	trans-1,2-Dichloroethene	ND		5
78-87-5	1,2-Dichloropropane	ND		5
10061-01-5	cis-1,3-Dichloropropene	ND		5
10061-02-6	trans-1,3-Dichloropropene	ND		5
100-41-4	Ethyl benzene	ND		5
75-09-2	Methylene chloride		8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND		5
127-18-4	Tetrachloroethene	ND		5
75-69-4	Trichlorofluoromethane	ND		10
79-01-6	Trichloroethene	ND		5
71-55-6	1,1,1-Trichloroethane	ND		5
79-00-5	1,1,2-Trichloroethane	ND		5
108-88-3	Toluene	ND		5
75-01-4	Vinyl chloride	ND		10
1330-20-7	Xylenes, Total	ND		5

Sample Description: **MRB-5** Collected: **10/13/93 11:08** Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **05A** Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	99	% Recovery
Toluene-d8	102	% Recovery
p-Bromofluorobenzene	98	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-6** Collected: 10/13/93 11:13 Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **06A** Category: SOLID

TCLP EXTRACTION DATE: 10/[illegible]
UNITS: mg/L VERIFIED: CL

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.26**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.02**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-6** Collected: 10/13/93 11:13 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: GMSLVO Lab No: 06A Category: SOLID

ANALYST: SDF FILE #: 2GM33697
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	11	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-6
Test Description: SPLP Volatiles - GM

Collected: 10/13/93 11:13 Method: 8260
Test Code: GMSLVO Lab No: 06A Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	103	% Recovery
p-Bromofluorobenzene	97	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **MRB-7** Collected: **10/13/93 11:17** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **07A** Category: SOLID

TCLP EXTRACTION DATE: 10/24/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	ND	0.0020
7440-39-3	Barium	0.36	0.010
7440-43-9	Cadmium	ND	0.020
7440-47-3	Chromium	ND	0.025
7440-50-8	Copper	ND	0.020
7439-92-1	Lead	ND	0.10
7439-97-6	Mercury	ND	0.0005
7482-49-2	Selenium	ND	0.0020
7440-22-4	Silver	ND	0.010
7440-66-6	Zinc	0.02	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR .MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRB-7** Collected: 10/13/93 11:17 Method: 8260
Test Description: **SPLP Volatiles - GM** Test Code: **GMSLVO** Lab No: **07A** Category: SOLID

ANALYST: SDF FILE #: 2GM33698
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: KJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	8	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **MRB-7**
Test Description: **SPLP Volatiles - GM**

Collected: **10/13/93 11:17** Method: 8260
Test Code: **GMSLVO** Lab No: **07A** Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	99	% Recovery
Toluene-d8	102	% Recovery
p-Bromofluorobenzene	97	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR .MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **MRB-8** Collected: **10/13/93 11:21** Method:
Test Description: **Metals (10)-SW-1312 (SPLP)** Test Code: **SLME10** Lab No: **08A** Category: SOLID

TCLP EXTRACTION DATE: [illegible]
UNITS: mg/L VERIFIED: [illegible]

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.33**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.10
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.06**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: MRB-8 Collected: 10/13/93 11:21 Method: 8260
Test Description: SPLP Volatiles - GM Test Code: GMSLVO Lab No: 08A Category: SOLID

ANALYST: SDF FILE #: 2GM33699
INSTRMT: FINN2 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	9	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: MRB-8
Test Description: SPLP Volatiles - GM

Collected: 10/13/93 11:21 Method: 8260
Test Code: GMSLVO Lab No: 08A Category: SOLID

SURROGATES		
1,2-Dichloroethane-d4	94	% Recovery
Toluene-d8	101	% Recovery
p-Bromofluorobenzene	95	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Appendix 10.2
Available Laboratory Analytical Data
Core Sand

Waste Charaterization Study of Foundry Process Solid Wastes

January 1984

Revised February 1984

Residuals Management Technology, Inc.

1406 East Washington Avenue
Suite 124
Madison, Wisconsin 53703
(608) 255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
SAGINAW NODULAR AND GREY IRON
CASTING PLANTS

January 1984

Revised February 1984

Dennis E. Strutz
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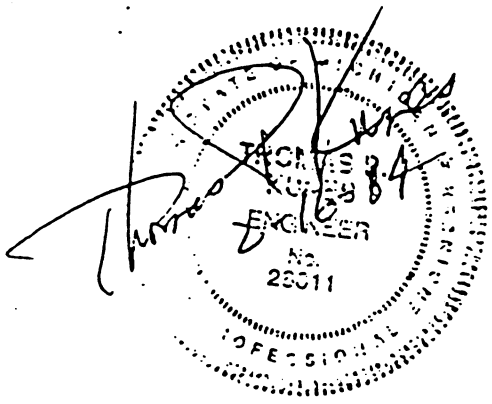

129.02:D152:DES:tfr

TABLE V

EP TOXICITY LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER	MDNR HAZARDOUS WASTE LIMITS[1,2]	1 METALS RECLAMATION RESIDUALS PILE	2 GREY IRON CORE WASTE COMPOSITE	3 CLASSIFIED SAND PILE	COMPOSITE OF WASTES (1, 2, & 3)[3]
Arsenic	5.0	0.004	< 0.001	0.001	0.003
Barium	100.0	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	1.0	< 0.01	< 0.01	< 0.01	< 0.01
Copper	100	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (total)	5.0	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	20.0	< 0.02	< 0.02	< 0.02	< 0.02
Lead	5.0	< 0.1	< 0.1	< 0.1	0.1
Mercury	0.2	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	1.0	< 0.001	< 0.001	< 0.001	<0.001
Silver	5.0	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	500.0	3.6	0.02	14.2	5.4
pH	--	5.1	5.1	5.1	5.0

(D130)

1. From MDNR R 299.6315 Table 303

2. All results in mg/l

3. Composite sample of the metals reclamation residuals waste pile, the classified sand pile, and the core wastes from the Grey Iron plant were prepared in the lab on the basis of the estimated ratios of generation by weight (45% metals reclamation residuals waste, 34% classified sand, and 31% core wastes)

TABLE II
ASTM LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER[1]	DRINKING WATER STANDARDS	METALS RECLAMATION RESIDUALS PILE	GREY IRON CORE WASTE COMPOSITE (ISO, OIL, SHELL, & HOT)	NODULAR IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	COMPOSITE CORES CLASSIFIED SAND, METALS RECLAMATION RESIDUALS
Arsenic	0.05[2]	0.059	< 0.001	0.002	0.001	0.024
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	1.4 - 2.4[2]	5.3	< 0.1	< 0.1	8.9	5.9
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.002	< 0.001	0.001	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	< 0.01	0.01	< 0.01	< 0.01	< 0.01
pH	6.5 - 8.5[3]	11.2	6.4	7.9	9.8	11.5
Phenols	3.5[4]	0.165	0.270	48.4	< 0.025	1.3

(D130)

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 19[illegible]ge 79331.

TABLE IV
ADDITIONAL ASTM LEACHING TEST RESULTS ON WASTES

PARAMETER[1]	DRINKING WATER STANDARDS	GREY IRON ISOCURE CORES	GREY IRON OIL CORES	GREY IRON SHELL CORES	GREY IRON HOT BOX CORES	GREY IRON WARM BOX CORES	GREY IRON WARM BOX CORES EXPERIMENTAL
Arsenic	0.05[2]	< 0.001	0.002	< 0.001	0.001	< 0.001	< 0.001
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	0.02	< 0.02	< 0.02	< 0.02	11.5	< 0.02
Fluoride	1.4 - 2.4[2]	< 0.1	< 0.2	< 0.2	< 0.1	< 0.2	< 0.1
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.011
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	0.02	0.03	< 0.01	< 0.01	0.05	0.03
pH	6.5 - 8.5[3]	7.4	6.0	8.2	7.6	5.6	6.5
Phenols	3.5[4]	8.1	0.098	37.6	14.6	4.5	0.155

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 1980, page 79331.

TABLE VII

TOTAL PCB ANALYSIS TEST RESULTS ON WASTES

WASTE	PCB (dry weight, ppm as Aroclor #1242)
Metals Reclamation Residuals Pile	0.18
Grey Iron Core Waste Composite (Isocure, Oil, Shell & Hot Box)	< 0.1
Classified Sand Pile	< 0.1
Primary Settling Lagoon #2	0.54
Primary Settling Lagoon #3	0.45

Waste Charaterization Study of Foundry Process Solid Wastes June 1985

RMT, Inc.
Suite 124
1406 East Washington Ave.
Madison, WI 53703
Phone: 608-255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS COPRORATION
CENTRAL FOUNDRY DIVISION

GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

June, 1986

Thomas J. Jancek
Process Consultant

James E. Vondracek
Project Engineer

STATE OF MICHIGAN
THOMAS P. KUNES, ENGINEER
No. 28811
LICENSED PROFESSIONAL ENGINEER

William A. Stephens, P.E.
Manager of Engineering

Thomas P. Kunes, P.E.
Executive Vice President

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw DATE: 4/2/85

PROJECT #: 129.02 P.O. #: 8260

SAMPLE #: 9603

SAMPLE DESCRIPTION: Core Waste Pile at Grey Iron (2/4-8/85)

COMPOSITIONAL ANALYSIS

PARAMETER	CONCENTRATION	UNITS
TOTAL PCB'S (Aroclor 1242)	0.1	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 3/6/85

PROJECT #: 129.04

P.O. #: 8287

SAMPLE #: 9603

SAMPLE DESCRIPTION: Core Waste Pile at Grey Iron (2/4-8/85)

ASTM LEACH TEST

PARAMETER	RESULT	UNIT
ARSENIC	< 0.001	mg/l
BARIUM	< 0.2	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM, TOTAL	< 0.05	mg/l
COD	56	mg/l
COPPER	< 0.02	mg/l
CYANIDE, TOTAL	0.028	mg/l
FLUORIDE	0.44	mg/l
LEAD	0.017	mg/l
MERCURY	< 0.0004	mg/l
pH	7.1	pH Units
PHENOLS	0.014	mg/l
SELENIUM	< 0.001	mg/l
SILVER	< 0.02	mg/l
TOC	21.9	mg/l
ZINC	0.06	mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

PROJECT #: 129.04

P.O. #: 8260

SAMPLE #S: 9787

SAMPLE DESCRIPTION: Grey Iron Composite - #10 Isocure Core Waste, #13 Hot Box Core Waste, #11 Oil Sand Core Waste, #12 Shell Core Waste (2/4-8/85)

ASTM LEACH TEST

PARAMETER	RESULT	UNITS
Arsenic	< 0.001	mg/l
Barium	< 0.2	mg/l
Cadmium	< 0.01	mg/l
Chromium, Total	< 0.05	mg/l
COD	538	mg/l
Copper	0.04	mg/l
Cyanide, Total	< 0.05	mg/l
Fluoride	< 0.1	mg/l
Lead	0.014	mg/l
Mercury	< 0.0002	mg/l
pH	6.3	pH Units
Phenols	8.4	mg/l
Selenium	< 0.001	mg/l
Silver	< 0.02	mg/l
TOC	183	mg/l
Zinc	0.02	mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

PROJECT #: 129.04

P.O. #: 8260

SAMPLE #: 9787

SAMPLE DESCRIPTION: Grey Iron Cores Composite--#10 Isocure Core Waste, #13 Hot Box Core Waste, #11 Oil Sand Core Waste, #12 Shell Core Waste (2/4-8/85)

COMPOSITIONAL ANALYSIS

PARAMETER	CONCENTRATION	UNITS
TOTAL PCB'S	< 0.1	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw DATE: 4/2/85

PROJECT #: 129.04 P.O. #: 8260

SAMPLE #: 9787

SAMPLE DESCRIPTION: Grey Iron Cores Composite - #10 Isocure Core Waste, #13 Hot Box Core Waste, #11 Oil Sand Core Waste, #12 Shell Core Waste (2/4-8/85)

EP TOXICITY TEST

WEIGHT USED: 100.0 grs. INITIAL PH: 6.0 FINAL PH: 5.2 ACID USED: 5 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.001	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	0.03	100.0 mg/l
CYANIDE	< 0.02	20.0 mg/l
ZINC	0.07	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

Waste Sampling and Testing Summary
October 1986

RMT INC.

Great Lakes Office
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

WASTE SAMPLING AND TESTING SUMMARY
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

October 1986

James R. Burns
Project Engineer

Thomas J. Jancek
Process Consultant

Robert E. Zayko, P.E.
Vice President
Northern Region

TABLE 3-1
EP TOXICITY
ANALYTICAL RESULTS (mg/l)
MARCH, 1986

PARAMETER	HAZARDOUS WASTE STANDARD	QUENCHED SLAG	NEW CORE WASTE	NEW METALS RECLAMATION	METALS RECLAMATION PILE (HATCHET PILE)
ARSENIC	5.00	<0.001	<0.001	0.002	0.002
BARIUM	100.00	1.00	<0.2	<0.2	<0.2
CADMIUM	1.00	<0.01	<0.01	<0.01	<0.01
CHROMIUM, TOTAL	5.00	<0.05	<0.05	<0.05	<0.05
LEAD	5.00	0.20	<0.1	<0.1	<0.1
MERCURY	0.20	0.0003	<0.0002	<0.0002	<0.0002
SELENIUM	1.00	<0.1	<0.1	<0.1	<0.1
SILVER	5.00	<0.02	<0.02	<0.02	<0.02
COPPER	100.00	0.03	0.04	0.04	0.03
CYANIDE-TOTAL	20.00	<0.02	<0.02	<0.02	<1.0
ZINC	500.00	5.80	0.70	4.30	2.6

GMC1/6

TABLE 3-2
ASTM LEACH TEST
ANALYTICAL RESULTS (mg/l)
MARCH 1986

	STANDARD	QUENCHED SLAG	NEW CORE WASTE	NEW METALS RECLAMATION	METALS RECLAMATION PILE (HATCHET PILE)
ARSENIC	0.05	0.002	<0.001	0.005	0.006
BARIUM	1	<0.2	<0.2	<0.2	<0.2
COD	50	<20	134	32	28
CADMIUM	0.01	<0.01	<0.01	<0.01	<0.01
CHROMIUM, TOTAL	0.05	<0.05	<0.05	<0.05	<0.05
COPPER	1	<0.02	0.02	<0.02	0.13
CYANIDE, TOTAL	0.2	<0.02	<0.02	<0.04	<0.04
FLUORIDE	4	0.34	0.4	0.94	3.4
LEAD	0.05	<0.005	<0.005	<0.005	0.028
MERCURY	0.002	<0.0002	<0.0002	<0.0002	<0.0002
PHENOLS	3.5	<0.012	0.18	<0.012	<0.012
SELENIUM	0.01	<0.004	<0.002	<0.002	<0.002
SILVER	0.05	<0.02	<0.02	<0.02	<0.02
TOC	50	1.6	38	9	5.4
ZINC	5	<0.01	0.04	1.4	<0.01
PH	6.5-8.5	10.6	7.2	9.9	8.8

GMC2/6

TABLE 3-3
PCB ANALYTICAL RESULTS (mg/kg)
MARCH 1986

PARAMETER PCB'S BY AROCLOR#	QUENCHED SLAG	NEW CORE WASTE	NEW MATERIAL RECLAMATION	METALS RECLAMATION PILE
1016	<0.08	<0.08	<0.08	<0.08
1221	<0.08	<0.08	<0.08	<0.08
1232	<0.08	<0.08	<0.08	<0.08
1242	<0.08	<0.08	0.3	0.13
1248	<0.08	0.79	<0.08	<0.08
1254	<0.16	<0.16	<0.16	<0.16
1260	<0.16	<0.16	<0.16	<0.16
TOTAL DETECTABLE	NONE DETECTED	0.79	0.3	0.13

GMC3/6

Sampled 10 locs
2,4,6' loop composited

Table 3-4
PCB ANALYTICAL RESULTS (mg/kg dry wt.)
September, 1986

Second Round of Sampling of New Core Waste

Parameter	Samples									
	B-1	B-8	B-16	B-18	B-21	B-22	B-29	B-36	B-42	B-43
PCB's by Aroclor #										
1016	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1221	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1232	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08
1242	.17	.23	.16	.17	.37	.39	.12	<0.08	<0.08	.08
1248	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	<0.08	.39	.67	<0.08
1254	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
1260	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16	<0.16
Total Detectable	.17	.23	.16	.17	.37	.39	.12	.39	.67	.08

1073tjj D7 Lotus

Summary Report:
Sampling and Analysis
December 1986

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:

GENERAL MOTORS COPRORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

PREPARED BY:

RMT, INC.
GRAND LEDGE, MICHIGAN

December 1986

James E. Vondracek
Project Engineer

Thomas J. Jancek
Process Consultant

Robert E. Zayko, P.E.
Vice President
Northern Region

1073.04:127 RPTa:sag1029

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core Pile Composite

SAMPLE DATE: 10/27-30/8
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103186-01C
FILE NAME: SAG001EP

EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 8.0
FINAL PH: 5.0
ACID USED(mls): 400 (all acid used)

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0
LEAD	< 0.1	5.0 mg/l
MERCURY	0.0014	0.2 mg/l
SELENIUM	< 0.002	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0mg/l
CYANIDE	< 0.020	20.0 mg/l
ZINC	0.18	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980 Federal Register 40 CFR 261.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core Pile Composites

SAMPLE DATE: 10/27-30/87
REPORT DATE: 12-16-86
TOTAL # PAGES: 1
P.O. #: 103186-107304
FILE NAME: SAG001PC

PCB ANALYSIS

PCB's BY AROCLOR #	RESULT	UNITS
1016	< 0.08	mg/kg dry wt.
1221	< 0.08	mg/kg dry wt.
1232	< 0.08	mg/kg dry wt.
1242	< 0.08	mg/kg dry wt.
1248	< 0.08	mg/kg dry wt.
1254	< 0.16	mg/kg dry wt.
1260	< 0.16	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core File Composite

SAMPLE DATE: 10/27-30/86
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103086-10730
FILE NAME: SAG001AS

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	< 0.001	mg/l
Barium	0.15	mg/l
COD	25	mg/l
Cadmium	< 0.005	mg/l
Chromium, Total	< 0.005	mg/l
Copper	< 0.01	mg/l
Cyanide, Total	< 0.020	mg/l
Fluoride	0.36	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
Phenols	0.009	mg/l
Selenium	< 0.002	mg/l
Silver	< 0.02	mg/l
Total Organic Carbon	12	mg/l
Zinc	< 0.01	mg/l
pH (lab)	7.2	pH units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

Summary Report:
Sampling and Analysis
January 1988

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

PREPARED BY:
RMT, INC.
GRAND LEDGE, MICHIGAN

January 1988

James A. Nehls
Group Leader, Technical Services

Thomas J. Jancek
Project Manager

Robert E. Zayko, P.E.
Vice President, Northern Region

1073.10:104 greyiron-39

RMT Inc.

CLIENT: GMC-CFD
PROJECT #: 1073.10
RMT SAMPLE #: 27240
DESCRIPTION: SGI Core Butt

SAMPLE DATE: 10/20/87
REPORT DATE: 12/07/87
TOTAL # PAGES: 1
P.O. #: 102787-0107310
FILE NAME: GMC008AS
Revised & Reissued: 12/30/87

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	< 0.003	mg/l
Barium	0.02	mg/l
Cadmium	< 0.004	mg/l
Chromium, Total	< 0.01	mg/l
COD	83	mg/l
Copper	0.01	mg/l
Cyanide, Total	0.02	mg/l
Fluoride	0.58	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
pH	7.9	pH units
Phenols	< 0.01	mg/l
Selenium	< 0.003	mg/l
Silver	< 0.01	mg/l
Total Organic Carbon	22	mg/l
Zinc	< 0.005	mg/l

Kenneth C. Rumrill
Paul E. Durandeau, Laboratory Director

COMPOUND LIST -- PCBs

SAMPLE IDENTIFIER: 27240
COMPUCHEM® SAMPLE NUMBER: 161362

		CONCENTRATION (ug/kg)	DETECTION LIMIT (ug/kg)
1P.	PCB-1242	BDL	20
2P.	PCB-1254	BDL	20
3P.	PCB-1221	BDL	20
4P.	PCB-1232	BDL	20
5P.	PCB-1248	BDL	20
6P.	PCB-1260	BDL	20
7P.	PCB-1016	BDL	20

Surrogate Recovery - Introduced at the beginning of the extraction, the surrogate standard is a select compound that analytically mimics the response of certain analytes. A known concentration of this surrogate is added to the sample and a percent recovery is calculated. This recovery acts as a barometer of extraction efficiency and analytical response for the individual sample.

	% Recovery	Control Range %
Dibutylchlorendate	23	(20-150)*

BDL=BELOW DETECTION LIMIT
*Advisory surrogate; with the exception of dilutions recovery below 10% requires action step (re-extraction and re-analysis).

Annual Sampling of Solid Wastes
February 1989

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

February 1989

James A. Nehls
Group Leader, Technical Services

James R. Burns, P.E.
Project Engineer

Thomas J. Jancek
Project Manager

1073.22 Test-60

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/18/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI032CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Formaldehyde	25	mg/kg dry wt.

Laboratory Director

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34093

DATE: 10/30/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: CWP-6 (CORE WASTE)

VOLATILE ORGANIC ANALYSIS REPORT

PARAMETER	RESULT	UNITS
METHYLENE CHLORIDE	<1.0	ug/kg dry wt.
CHLOROFORM	<0.50	ug/kg dry wt.
1,1,1-TRICHLOROETHANE	11	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI005ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.9
FINAL PH: 5.2
ACID USED(mls): 22

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.13	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	0.3	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	0.34	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34094
DESCRIPTION: CWP - 7 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI021CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	0.90	mg/kg dry wt.
Barium, Total	13	mg/kg dry wt.
Cadmium, Total	0.63	mg/kg dry wt.
Chromium, Total	18	mg/kg dry wt.
Copper, Total	11	mg/kg dry wt.
Lead, Total	11	mg/kg dry wt.
Mercury, Total	< 0.11	mg/kg dry wt.
Selenium, Total	< 0.84	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	95	mg/kg dry wt.
Zinc, Total	49	mg/kg dry wt.

Laboratory Director

Core Waste
EP Toxicity

PARAMETER	SAMPLE GRID 4	GRID 6	GRID 7	$\bar{x}$	S
Arsenic	<0.004	<0.004	<0.004	<0.004	--
Barium	0.020	0.130	0.020	0.060	0.060
Cadmium	0.005	<0.005	<0.005	<0.005	--
Chromium	<0.01	<0.01	<0.01	<0.01	--
Copper	<0.01	<0.01	0.010	<0.01	--
Lead	<0.1	0.300	<0.1	<0.17	<0.11
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	--
Selenium	<0.02	<0.02	<0.02	<0.02	--
Silver	<0.01	<0.01	<0.01	<0.01	--
Zinc	0.540	0.340	0.220	0.370	0.16

CORETOX D#1 1073.03

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34092
DESCRIPTION: CWP - 4 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI019CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	0.93	mg/kg dry wt.
Barium, Total	19	mg/kg dry wt.
Cadmium, Total	0.62	mg/kg dry wt.
Chromium, Total	14	mg/kg dry wt.
Copper, Total	6.2	mg/kg dry wt.
Lead, Total	< 10	mg/kg dry wt.
Mercury, Total	< 0.10	mg/kg dry wt.
Selenium, Total	< 0.82	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	97	mg/kg dry wt.
Zinc, Total	47	mg/kg dry wt.

Laboratory Director

Core Waste
Compositional Analysis

PARAMETER	SAMPLE GRID 4	GRID 6	GRID 7	$\bar{x}$	S
Arsenic (mg/kg)	0.93	1.80	0.90	1.21	0.51
Barium (mg/kg)	19.00	15.00	13.00	15.70	3.06
Cadmium (mg/kg)	0.62	0.64	0.63	0.63	0.01
Chromium (mg/kg)	14.00	14.00	18.00	15.30	2.31
Copper (mg/kg)	6.20	8.10	11.00	8.40	2.42
Lead (mg/kg)	<10.00	<11.00	11.00	<10.70	<0.57
Mercury (mg/kg)	<0.10	<0.11	<0.11	<0.11	<0.01
Selenium (mg/kg)	<0.82	<0.85	<0.84	<0.83	<0.02
Silver (mg/kg)	<1.00	<1.00	<1.00	<1.00	--
Solids (mg/kg)	97.00	94.00	95.00	95.30	1.53
Zinc (mg/kg)	47.00	56.00	49.00	50.70	4.70

CORECOMP D#1 1197.17

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI020CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Antimony, Total	< 6	mg/kg dry wt.
Arsenic, Total	1.8	mg/kg dry wt.
Barium, Total	15	mg/kg dry wt.
Beryllium, Total	< 0.5	mg/kg dry wt.
Cadmium, Total	0.64	mg/kg dry wt.
Chloride, Dissolved	330	mg/l
Chromium, Total	14	mg/kg dry wt.
Cobalt, Total	< 2	mg/kg dry wt.
Copper, Total	8.1	mg/kg dry wt.
Cyanide, Total	3.2	mg/kg dry wt.
Fluoride, Total	49	mg/kg dry wt.
Lead, Total	< 11	mg/kg dry wt.
Lithium, Total	< 5.3	mg/kg dry wt.
Mercury, Total	< 0.11	mg/kg dry wt.
Nickel, Total	3.9	mg/kg dry wt.
Phenols	14	mg/kg dry wt.
Selenium, Total	< 0.85	mg/kg dry wt.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI020CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	94	mg/kg dry wt.
Zinc, Total	56	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34092
DESCRIPTION: CWP - 4 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI004ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.8
FINAL PH: 5.2
ACID USED(mls): 22

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.020	100.0 mg/l
CADMIUM	0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	0.54	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34094
DESCRIPTION: CWP - 7 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI006ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.7
FINAL PH: 5.2
ACID USED(mls): 23

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.020	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	0.01	100.0 mg/l
ZINC	0.22	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34093

DATE: 11/04/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: CWP-6 (CORE WASTE)

PHTHALATE ESTERS REPORT

PARAMETER	RESULT	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	<2.0	mg/kg dry wt.
BUTYLBENZYL PHTHALATE	<0.5	mg/kg dry wt.
DI-N-BUTYL PHTHALATE	<0.5	mg/kg dry wt.
DIETHYL PHTHALATE	<0.5	mg/kg dry wt.
DIMETHYL PHTHALATE	< OR = 0.57	mg/kg dry wt.
DI-N-OCTYL PHTHALATE	<3.0	mg/kg dry wt.

Laboratory Director

Annual Sampling of Solid Wastes
Ocotober 1990

RMT INC

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

OCTOBER 1990

E. Bernard Roykjenes
Engineering Technician

James R. Burns, P.E.
Group Leader
Engineering and Technical Services

Thomas J. Jancek
Project Manager

1073.43 gm1018

TABLE 3 - 2

GMC-SGI Solid Waste Designation

Toxicity Characteristic Leaching Procedure

PARAMETER	TCLP Regulatory Limits	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
Arsenic (mg/l)	5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.006	< 0.003
Barium (mg/l)	100	0.37	0.46	3.5	0.28	0.11	0.25	0.07
Cadmium (mg/l)	1	< 0.005	0.008	0.006	0.005	0.007	0.008	0.007
Chromium (mg/l)	5	0.02	0.03	1.5	0.05	0.02	< 0.01	< 0.01
Copper (mg/l)		< 0.02	0.02	0.02	0.03	< 0.02	< 0.02	< 0.02
Lead (mg/l)	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (mg/l)	0.2	< 0.0002	< 0.0002	< 0.0004	< 0.0002	0.0002	< 0.0002	< 0.0002
Selenium (mg/l)	1	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003
Silver (mg/l)	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc (mg/kg)		1.2	3.6	12	11	150	4.7	0.03
Fluoride (mg/l)		0.13	0.50	1.2	0.16	1.9	9.5	< 0.10
Phenol (mg/l)		0.35	0.36	0.44	0.23	0.57	0.30	0.44
Phosphorus (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	1.3	1.2	< 0.10
Formaldehyde (mg/l)		< 0.25	< 0.25	NA*	< 0.25	1.3	< 0.25	< 0.25
Benzene (mg/l)	0.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Toluene (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Xylenes (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

NA* = Not Analyzed. Sample contained apparent emulsified oils. Due to light scattering, absorbance values are invalid.

H:1073TB62

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics							
Antimony (mg/kg)	< 20	< 20	< 20	< 20	< 50	< 70	< 20
Arsenic (mg/kg)	1.0	3.8	1.4	0.8	6.3	7.4	< 0.6
Barium (mg/kg)	200	47	430	49	150	210	< 5
Beryllium (mg/kg)	< 0.5	< 0.5	1.7	< 0.5	< 1.1	< 1.8	< 0.5
Biochemical Oxygen Demand	34	30	< 6.7	13	4600	24000	< 2.5
Cadmium (mg/kg)	< 0.5	0.8	< 0.6	< 0.5	30	2	< 0.5
Calcium (mg/kg)	5700	10000	220000	15000	20000	8700	550
Chloride (mg/l)	8.7	140	24	80	420	54	< 21
Chromium (mg/kg)	32	85	560	57	180	7	< 1
Cobalt (mg/kg)	< 5	< 5	< 6	< 5	< 11	< 18	< 5
Copper (mg/kg)	8	32	70	15	120	20	< 2
Corrosivity (pH units)	7.6	9.5	10.5	8.9	9.7	7.3	7.5
Cyanide (mg/kg)	< 2.6	< 2.7	11	< 2.6	< 5.7	< 8.9	< 2.6
Fluoride (mg/kg)	26	39	38	< 21	110	930	< 21
Lead (mg/kg)	< 10	< 10	20	< 10	1100	40	< 10
Lithium (mg/kg)	< 5	< 5	14	< 5	< 10	< 20	< 5
Magnesium (mg/kg)	560	880	5300	690	3900	390	270
Manganese (mg/kg)	400	700	14000	1300	5700	950	15
Mercury (mg/kg)	< 0.11	< 0.11	< 0.11	< 0.1	< 0.23	< 0.36	< 0.10
Nickel (mg/kg)	< 4	13	17	< 4	30	< 14	< 4
Nitrate (mg/kg)	4.6	< 0.54	< 0.56	0.94	< 1.1	310	< 0.52
Nitrite (mg/kg)	< 0.21	< 0.22	< 0.22	< 0.21	< 0.45	< 0.71	< 0.21
Nitrogen, Total Kjeldahl (mg/kg)	880	490	310	260	3700	1800	< 26
Phenols (mg/kg)	15	3.2	< 2.8	< 2.6	100	< 8.9	< 2.6
Phosphorus, Total (mg/kg)	68	63	14	64	3000	12000	28
Potassium (mg/kg)	110	280	2000	230	1900	960	< 50
Selenium (mg/kg)	< 0.6	< 0.6	1.0	< 0.6	< 1.4	< 2.1	< 0.6
Silver (mg/kg)	< 1	< 1	2	< 1	< 2	< 4	< 1

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data
Cont'd

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics Cont'd							
Sodium (mg/kg)	60	110	980	150	1500	3300	< 50
Solids (%)	94	93	90	96	44	28	97
Zinc (mg/kg)	73	150	1900	410	28000	1000	3
B. Volatile Organics							
Methylene Chloride (ug/kg)	0.82	2.1	3.9	3.7	3.0	2.8	< 1.2
Chloroform (ug/kg)	< 0.50	0.81	< 0.50	< 0.50	< 1.0	< 1.6	< 1.2
1,1,1-Trichloroethane (ug/kg)	7.6	2.6	< 0.50	1.4	< 1.0	< 1.6	< 2.5
Benzene (ug/kg)	< 1.0	1.3	2.9	< 1.0	64	< 3.2	< 1.2
Toluene (ug/kg)	< 1.0	4.9	17	< 1.0	44	< 3.2	< 1.2
C. Phthalate Esters							
BIS(2-Ethylhexyl)Phthalate (mg/kg)	0.28	< 0.80	< 0.06	< 0.07	0.15	< 0.24	0.16
D. Phosphates							
Triphenol Phosphate (ppm)	0.088	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tricersol Phosphate (ppm)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
E. PCB's							
Aroclor - 1016 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1221 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1232 (mg/kg)	0.64	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1242 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1248 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1254 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
Aroclor - 1260 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
F. Formaldehyde (mg/kg)	< 6.1	< 6.9	< 6.6	< 6.2	< 12.2	< 20.8	15.3
G. Asbestos							
Amosite Asbestos (%)	0	0	0	0	0	0	0
Chrysotile Asbestos (%)	0	0	0	0	0	0	0

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Annual Sampling of Solid Wastes
January 1992

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GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES

JANUARY 1992

E. Bernard Roykjenes
Environmental Scientist

Thomas J. Jancek
Project Manager

1073.47 gm0110

TABLE 3 - 1

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

CORE WASTE EP TOXICITY

PARAMETER	UNITS	EP TOX HAZ. WASTE LIMITS	CORE WASTE GL#4	CORE WASTE GL#6	CORE WASTE GL#7	Upper Confidence Interval
ARSENIC	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
BARIUM	mg/L	100.0	<0.050	0.050	0.061	0.083
CADMIUM	mg/L	1.0	0.00063	0.0015	0.0013	0.0021
CHROMIUM-TOTAL	mg/L	5.0	<0.010	<0.010	<0.010	0.015
COPPER	mg/L	100.0	<0.020	0.038	0.076	0.110
LEAD	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.0060	<0.0060	<0.0060	0.0092
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L	500	0.67	2.3	0.87	3.12

TABLE 3 - 2

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

CORE WASTE TCLP 10-METALS

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#4	CORE WASTE GL#6	CORE WASTE GL#7	Upper Confidence Interval
ARSENIC	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
BARIUM	mg/L	100.0	0.20	0.16	0.20	0.23
CADMIUM	mg/L	1.0	0.00099	0.0030	0.0024	0.00426
CHROMIUM	mg/L	5.0	0.065	0.023	0.023	0.087
COPPER	mg/L		0.045	0.021	0.023	0.057
LEAD	mg/L	5.0	0.0067	0.12	0.012	0.1783
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.0060	<0.0060	<0.0060	0.0092
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L		1.0	7.6	1.4	11.0

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
ENDRIN	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
LINDANE	mg/L	0.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
METHOXYCHLOR	mg/L	10.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOXAPHENE	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,4-D	mg/L	10.0	<0.012	<0.012	<0.012	<0.011	<0.01	<0.012	<0.012	<0.012
2,4,5-TP	mg/L	1.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORDANE	mg/L	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
HEPTACHLOR	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
HEPTACHLOR EPOXIDE	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-CHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2-NITROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.022J	0.018J	0.014J	<0.025
2,4-DIMETHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.006J	0.008J	<0.025	<0.025
2,4-DICHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4,6-TRICHLOROPHENOL*	mg/L	2.0	<0.042	<0.013	<0.014	<0.064	<0.11	<0.11	<0.11	<0.035
4-CHLORO-3-METHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYL-4,6-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
PENTACHLOROPHENOL*	mg/L	100.0	<0.16	<0.18	<0.43	<0.18	<0.18	<0.18	<0.18	<0.13
4-NITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYLPHENOL	mg/L	(2)								
3-METHYLPHENOL	mg/L	(2)			REPORTED AS TOTAL CRESOLS					
4-METHYLPHENOL	mg/L	(2)								
TOTAL CRESOLS	mg/L	200.0	<0.15	<0.34	<0.23	<0.19	0.22	0.22	0.21	<0.12
2,4-DINITROTOLUENE*	mg/L	0.13 (1)	<0.031	<0.031	<0.030	<0.028	<0.074	<0.074	<0.074	<0.031
HEXACHLOROBENZENE*	mg/L	0.13 (1)	<0.033	<0.030	<0.032	<0.030	<0.033	<0.033	<0.033	<0.033
HEXACHLOROBUTADIENE*	mg/L	0.5	<0.054	<0.057	<0.052	<0.061	<0.047	<0.047	<0.047	<0.047
HEXACHLOROETHANE*	mg/L	3.0	<0.05	<0.053	<0.046	<0.050	<0.04	<0.04	<0.04	<0.042
NITROBENZENE*	mg/L	2.0	<0.036	<0.038	<0.034	<0.033	<0.078	<0.078	<0.078	<0.032
PYRIDINE*	mg/L	5.0 (1)	<0.21	<0.24	<0.19	<0.26	<0.16	<0.16	<0.16	<0.18
2,4,5-TRICHLOROPHENOL*	mg/L	400.0	<0.19	<0.33	<0.67	<0.21	<0.27	<0.27	<0.27	<0.16
PHOSPHORUS	mg/L		<0.10	<0.10	<0.10	<0.10	19	10	6.5	0.39
CHLORIDE	mg/L		7.6	7.4	3.9	5.8	9.0	16	14	24
FLUORIDE	mg/L		0.19	0.13	0.35	0.26	1.2	2.2	2.5	1C
TOTAL PHENOLICS	mg/L		<0.050	<0.050	<0.050	<0.050	0.17	0.18	0.16	<0.05(

"J" DENOTES AN ESTIMATED CONCENTRATION.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
(2) IF o-, m-, AND p-cresol CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
CHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
VINYL CHLORIDE	mg/L	0.2	<0.0010	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
DICHLORODIFLUOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
METHYLENE CHLORIDE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FLUOROTRICHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-DICHLOROETHYLENE	mg/L	0.7	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1-DICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHYLENE (total)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CHLOROFORM	mg/L	6.0	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHANE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1,1-TRICHLOROETHANE	mg/L		0.0032	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CARBON TETRACHLORIDE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
BROMODICHLOROMETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROPROPANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CIS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TRICHLOROETHYLENE	mg/L	0.5	<0.0022	<0.0020	<0.0021	<0.0020	<0.002	<0.002	<0.002	<0.0021
BENZENE	mg/L	0.5	<0.0011	<0.0012	<0.0010	<0.0010	0.006	0.007	0.0071	<0.001
1,1,2-TRICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TRANS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORODIBROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
2-CHLOROETHYLVINYL ETHER	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BROMOFORM	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
METHYL ETHYL KETONE	mg/L	200.0	<0.0074	<0.0073	<0.0061	<0.0065	<.0.0067	<.0.0067	<.0.0067	<.0.0071
TETRACHLOROETHYLENE	mg/L	0.7	<0.0026	<0.0025	<0.0022	<0.0022	<0.002	0.0051	0.0048	<0.0021
1,1,2,2-TETRACHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOLUENE	mg/L		<0.001	<0.001	<0.001	<0.001	0.0021	0.0015	0.0017	<0.001
CHLOROBENZENE	mg/L	100.0	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
ETHYLBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-DICHLOROBENZENE	mg/L	7.5	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
XYLENES	mg/L		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
FORMALDEHYDE	UG/L		430 F(47)	1250 F(47)	540 F(47)	410 F(47)	2272F(58)	1667F(58)	1675F(58)	466F(58)

"F" DENOTES FORMALDEHYDE WAS FOUND IN METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.

TABLE 3-3

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
ANTIMONY	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.1	2.9	<2.7
ARSENIC	mg/Kg DRY WT	1.4	3.2	<1.3	0.71	5.1	9.0
BARIUM	mg/Kg DRY WT	26	86	620	60 *	110	27
BERYLLIUM	mg/Kg DRY WT	<0.53	<0.55	2.6	<0.52	<1.0	<1.3
CADMIUM	mg/Kg DRY WT	<0.53	<0.55	<0.54	<0.52	10	<1.3
CALCIUM	mg/Kg DRY WT	4300	22000	260000	25000	18000	12000
CHROMIUM	mg/Kg DRY WT	51	160	590	83	130	31
COBALT	mg/Kg DRY WT	<5.3	<5.5	<5.4	<5.2	<10	<13
COPPER	mg/Kg DRY WT	22	67	22	14	110	10
LEAD	mg/Kg DRY WT	<21	<22	24	<21	770	<53
LITHIUM	mg/Kg DRY WT	<5.3	<5.5	21	<5.2	<10	<13
MAGNESIUM	mg/Kg DRY WT	550	1100	6500	980	3800	710
MANGANESE	mg/Kg DRY WT	510	2400	22000	3000	4900	1200
MERCURY	mg/Kg DRY WT	<0.11	<0.11	<0.11	<0.10	<0.21	<0.27
NICKEL	mg/Kg DRY WT	11	29	7.0	6.0	32	<11
POTASSIUM	mg/Kg DRY WT	<110	360	2400	410	1800	1300
SELLENIUM	mg/Kg DRY WT	<0.64	<0.66	<3.2	<0.63	<1.2	<1.6
SILVER	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.0	<2.1	<2.7
SODIUM	mg/Kg DRY WT	230	300	1500	240	1400	4000
ZINC	mg/Kg DRY WT	160	500	2000	440	30000	690
TOTAL SOLIDS	%	93.7	90.3	93.3	95.3	48.2	37.5
CYANIDE (total)	mg/Kg DRY WT	<2.7	<2.8	4.3	<2.6	<5.2	<6.7
REACTIVITY CYANIDE	mg/Kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
AMMONIA NITROGEN	mg/Kg	71	<28	<27	<26	150	<66
TOTAL KJELDAHL NITROGEN	mg/Kg DRY WT	690	480	370	210	2900	2500
SOLUBLE (NITRATE & NITRITE)	mg/Kg	37	3.6	0.65	1.6	<0.50	130
PHOSPHORUS (total)	mg/Kg DRY WT	60	91	12	72	4200	15000
REACTIVITY SULFIDES	mg/Kg	<10	<10	<10	<10	<10	<10
CORROSIVITY (soil pH)	pH units	9.3	9.6	9.6	9.7	10.0	7.4

*** DENOTES DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

TABLE 3-3 CONT'D

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
SOLUBLE CHLORIDE	mg/Kg	98	130	15	41	130	340
FLUORIDES	mg/Kg DRY WT	74	49	46	53	200	2500
TOTAL PHENOLICS	mg/Kg DRY WT	14	<2.9	<2.7	<2.6	69	7.9
ORTHO-PHOSPHATES (as soluble)	mg/kg	1.7	8	<1.0	<1.0	26	10
PCB-1016	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1221	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1232	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1242	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1248	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	0.96	<0.21
PCB-1254	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
PCB-1260	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
METHYLENE CHLORIDE	mg/Kg DRY WT	0.002J	0.006	0.001J	0.002J	<0.010	<0.016
1,1,1-TRICHLOROETHANE	mg/Kg DRY WT	0.009	0.0004J	<0.005	<0.005	<0.010	<0.016
BENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	0.048	<0.016
CHLOROFORM	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
TOLUENE	mg/Kg DRY WT	<0.005	0.002J	0.0008J	<0.005	0.022	<0.016
XYLENE	mg/Kg DRY WT	<0.005	0.0009J	<0.005	<0.005	0.022	<0.016
CARBON TETRACHLORIDE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
CHLOROBENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
BIS-2-ETHYLHEXYLPHTHALATE	mg/Kg DRY WT	0.75J	0.180J	<0.36	<0.35	<6.4	0.61J
TRICRESYL PHOSPHATE	mg/Kg DRY WT	NP	NP	NP	NP	NP	NP
TRIPHENYL PHOSPHATE	mg/Kg DRY WT	P	P	NP	NP	NP	NP
TRIXYLENYL PHOSPHATE	mg/Kg DRY WT	NA	NA	NA	NA	NA	NA
FORMALDEHYDE	UG/L	1949 F(31)	8980 F(31)	5777 F(31)	4824 F(31)	49110 F(31)	391 F(31)
BOD	mg/Kg DRY WT	256	101	<36	<52	3577	2700
ASBESTOS(AMOSITE+CHRYSOTILE)	%	0	0	0	0	0	0
IGNITABILITY	degrees F	>140	>140	>140	>140	>140	>140

"A" DENOTES AR1248 WAS IDENTIFIED AND REPORTED. OTHER AROCHLORS MAY BE PRESENT BUT WERE NOT QUANTIFIABLE.
"F" DENOTES FORMALDEHYDE WAS FOUND IN THE METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
"J" DENOTES AN ESTIMATED CONCENTRATION.
"P" DENOTES THIS COMPOUND WAS PRESENT.
"NP" DENOTES THIS COMPOUND WAS NOT PRESENT.
"NA" DENOTES A STANDARD FOR THIS COMPOUND WAS NOT AVAILABLE.

Sampling of Solid Wastes
collected 10/13/88

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34092
DESCRIPTION: CWP - 4 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI019CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	0.93	mg/kg dry wt.
Barium, Total	19	mg/kg dry wt.
Cadmium, Total	0.62	mg/kg dry wt.
Chromium, Total	14	mg/kg dry wt.
Copper, Total	6.2	mg/kg dry wt.
Lead, Total	< 10	mg/kg dry wt.
Mercury, Total	< 0.10	mg/kg dry wt.
Selenium, Total	< 0.82	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	97	mg/kg dry wt.
Zinc, Total	47	mg/kg dry wt.

Laboratory Director

SEP. FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

Core Waste
Compositional Analysis

PARAMETER	SAMPLE GRID 4	GRID 6	GRID 7	$\bar{x}$	S
Arsenic (mg/kg)	0.93	1.80	0.90	1.21	0.51
Barium (mg/kg)	19.00	15.00	13.00	15.70	3.06
Cadmium (mg/kg)	0.62	0.64	0.63	0.63	0.01
Chromium (mg/kg)	14.00	14.00	18.00	15.30	2.31
Copper (mg/kg)	6.20	8.10	11.00	8.40	2.42
Lead (mg/kg)	<10.00	<11.00	11.00	<10.70	<0.57
Mercury (mg/kg)	<0.10	<0.11	<0.11	<0.11	<0.01
Selenium (mg/kg)	<0.82	<0.85	<0.84	<0.83	<0.02
Silver (mg/kg)	<1.00	<1.00	<1.00	<1.00	--
Solids (mg/kg)	97.00	94.00	95.00	95.30	1.53
Zinc (mg/kg)	47.00	56.00	49.00	50.70	4.70

CORECOMP D#1 1197.17

USEPA FOIA REQUEST
RIN 768-94
BRUARY 14, 1994

Core Waste
EP Toxicity

PARAMETER	SAMPLE GRID 4	GRID 6	GRID 7	$\bar{x}$	S
Arsenic	<0.004	<0.004	<0.004	<0.004	--
Barium	0.020	0.130	0.020	0.060	0.060
Cadmium	0.005	<0.005	<0.005	<0.005	--
Chromium	<0.01	<0.01	<0.01	<0.01	--
Copper	<0.01	<0.01	0.010	<0.01	--
Lead	<0.1	0.300	<0.1	<0.17	<0.11
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	--
Selenium	<0.02	<0.02	<0.02	<0.02	--
Silver	<0.01	<0.01	<0.01	<0.01	--
Zinc	0.540	0.340	0.220	0.370	0.16

CORETOX D#1 1073.03

SEP.. FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI020CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Antimony, Total	< 6	mg/kg dry wt.
Arsenic, Total	1.8	mg/kg dry wt.
Barium, Total	15	mg/kg dry wt.
Beryllium, Total	< 0.5	mg/kg dry wt.
Cadmium, Total	0.64	mg/kg dry wt.
Chloride, Dissolved	330	mg/l
Chromium, Total	14	mg/kg dry wt.
Cobalt, Total	< 2	mg/kg dry wt.
Copper, Total	8.1	mg/kg dry wt.
Cyanide, Total	3.2	mg/kg dry wt.
Fluoride, Total	49	mg/kg dry wt.
Lead, Total	< 11	mg/kg dry wt.
Lithium, Total	< 5.3	mg/kg dry wt.
Mercury, Total	< 0.11	mg/kg dry wt.
Nickel, Total	3.9	mg/kg dry wt.
Phenols	14	mg/kg dry wt.
Selenium, Total	< 0.85	mg/kg dry wt.

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI020CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	94	mg/kg dry wt.
Zinc, Total	56	mg/kg dry wt.

Laboratory Director

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34094
DESCRIPTION: CWP - 7 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI021CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	0.90	mg/kg dry wt.
Barium, Total	13	mg/kg dry wt.
Cadmium, Total	0.63	mg/kg dry wt.
Chromium, Total	18	mg/kg dry wt.
Copper, Total	11	mg/kg dry wt.
Lead, Total	11	mg/kg dry wt.
Mercury, Total	< 0.11	mg/kg dry wt.
Selenium, Total	< 0.84	mg/kg dry wt.
Silver, Total	< 1.0	mg/kg dry wt.
Solids, Total	95	mg/kg dry wt.
Zinc, Total	49	mg/kg dry wt.

Laboratory Director

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34092
DESCRIPTION: CWP - 4 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI004ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.8
FINAL PH: 5.2
ACID USED(mls): 22

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.020	100.0 mg/l
CADMIUM	0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	0.54	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI005ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.9
FINAL PH: 5.2
ACID USED(mls): 22

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.13	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	0.3	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	0.34	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of th the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34094
DESCRIPTION: CWP - 7 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI006ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 6.7
FINAL PH: 5.2
ACID USED(mls): 23

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.020	100.0 mg/l
CADMIUM	< 0.005	1.0 mg/l
CHROMIUM, TOTAL	< 0.01	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	0.01	100.0 mg/l
ZINC	0.22	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the One Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14 1994

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34093

DATE: 10/30/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: CWP-6 (CORE WASTE)

VOLATILE ORGANIC ANALYSIS REPORT

PARAMETER	RESULT	UNITS
METHYLENE CHLORIDE	<1.0	ug/kg dry wt.
CHLOROFORM	<0.50	ug/kg dry wt.
1,1,1-TRICHLOROETHANE	11	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.

Laboratory Director

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 11, 1994

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34093

DATE: 11/04/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/13/88

SAMPLE DESCRIPTION: CWP-6 (CORE WASTE)

PHTHALATE ESTERS REPORT

PARAMETER	RESULT	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	<2.0	mg/kg dry wt.
BUTYLBENZYL PHTHALATE	<0.5	mg/kg dry wt.
DI-N-BUTYL PHTHALATE	<0.5	mg/kg dry wt.
DIETHYL PHTHALATE	<0.5	mg/kg dry wt.
DIMETHYL PHTHALATE	< OR = 0.57	mg/kg dry wt.
DI-N-OCTYL PHTHALATE	<3.0	mg/kg dry wt.

Laboratory Director

USEPA FOIA REQUEST
PIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34093
DESCRIPTION: CWP - 6 (Core Waste)

SAMPLE DATE: 10/13/88
REPORT DATE: 11/18/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI032CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Formaldehyde	25	mg/kg dry wt.

Laboratory Director

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.

CLIENT: GMC-CFD
PROJECT #: 1073.10
RMT SAMPLE #: 27240
DESCRIPTION: SGI Core Butt

SAMPLE DATE: 10/20/87
REPORT DATE: 12/07/87
TOTAL # PAGES: 1
P.O. #: 102787-0107310
FILE NAME: GMC008AS
Revised & Reissued: 12/30/87

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	< 0.003	mg/l
Barium	0.02	mg/l
Cadmium	< 0.004	mg/l
Chromium, Total	< 0.01	mg/l
COD	83	mg/l
Copper	0.01	mg/l
Cyanide, Total	0.02	mg/l
Fluoride	0.58	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
pH	7.9	pH units
Phenols	< 0.01	mg/l
Selenium	< 0.003	mg/l
Silver	< 0.01	mg/l
Total Organic Carbon	22	mg/l
Zinc	< 0.005	mg/l

Kenneth C. Runnels
Paul E. Duranceau, Laboratory Director

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core Pile Composite

SAMPLE DATE: 10/27-30/
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103186-01
FILE NAME: SAG001EP

EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 8.0
FINAL PH: 5.0
ACID USED(mls): 400 (all acid usec

PARAMETERS	RESULT mg/l	HAZARDOU WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/
BARIUM	< 0.2	100.0 mg/
CADMIUM	< 0.01	1.0 mg/
CHROMIUM-TOTAL	< 0.05	5.(/l
LEAD	< 0.1	5.0 mg/
MERCURY	0.0014	0.2 mg/
SELENIUM	< 0.002	1.0 mg/
SILVER	< 0.02	5.0 mg/
COPPER	< 0.02	100.0mg/
CYANIDE	< 0.020	20.0 mg/
ZINC	0.18	500.0 mg/

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980 Federal Regis 40 CFR 261.

US EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14. 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core Pile Composite

SAMPLE DATE: 10/27-30/8
REPORT DATE: 12-4-86
TOTAL # PAGES: 1
P.O. #: 103086-107
FILE NAME: SAG001AS

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	< 0.001	mg/l
Barium	0.15	mg/l
COD	25	mg/l
Cadmium	< 0.005	mg/l
Chromium, Total	< 0.005	mg/l
Copper	< 0.01	mg/l
Cyanide, Total	< 0.020	mg/l
Fluoride	0.36	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
Phenols	0.009	mg/l
Selenium	< 0.002	mg/l
Silver	< 0.02	mg/l
Total Organic Carbon	12	mg/l
Zinc	< 0.01	mg/l
pH (lab)	7.2	pH units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1073.04
RMT SAMPLE #: 20434
DESCRIPTION: C-1 Core Pile Composites

SAMPLE DATE: 10/27-30/87
REPORT DATE: 12-16-86
TOTAL # PAGES: 1
P.O. #: 103186-107304
FILE NAME: SAG001PC

PCB ANALYSIS

PCB's BY AROCLOR #	RESULT	UNITS
1016	< 0.08	mg/kg dry wt.
1221	< 0.08	mg/kg dry wt.
1232	< 0.08	mg/kg dry wt.
1242	< 0.08	mg/kg dry wt.
1248	< 0.08	mg/kg dry wt.
1254	< 0.16	mg/kg dry wt.
1260	< 0.16	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

TABLE V

EP TOXICITY LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER	MDNR HAZARDOUS WASTE LIMITS[1,2]	1 METALS RECLAMATION RESIDUALS PILE	2 GREY IRON CORE WASTE COMPOSITE	3 CLASSIFIED SAND PILE	COMPOSITE OF WASTES (1, 2, & 3)[3]
Arsenic	5.0	0.004	< 0.001	0.001	0.003
Barium	100.0	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	1.0	< 0.01	< 0.01	< 0.01	< 0.01
Copper	100	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (total)	5.0	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	20.0	< 0.02	< 0.02	< 0.02	< 0.02
Lead	5.0	< 0.1	< 0.1	< 0.1	0.1
Mercury	0.2	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	1.0	< 0.001	< 0.001	< 0.001	<0.001
Silver	5.0	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	500.0	3.6	0.02	14.2	5.4
pH	--	5.1	5.1	5.1	5.0

(D130)

1. From MDNR R 299.6315 Table 303

2. All results in mg/l

3. Composite sample of the metals reclamation residuals waste pile, the classified sand pile, and the core wastes from the Grey Iron plant were prepared in the lab on the basis of the estimated ratios of generation by weight (45% metals reclamation residuals waste, 34% classified sand, and 31% core wastes)

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TABLE IV
ADDITIONAL ASTM LEACHING TEST RESULTS ON WASTES

PARAMETER[1]	DRINKING WATER STANDARDS	GREY IRON ISOCURE CORES	GREY IRON OIL CORES	GREY IRON SHELL CORES	GREY IRON HOT BOX CORES	GREY IRON WARM BOX CORES	GREY IRON WARM BOX CORES EXPERIMENTAL
Arsenic	0.05[2]	< 0.001	0.002	< 0.001	0.001	< 0.001	< 0.001
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	0.02	< 0.02	< 0.02	< 0.02	11.5	< 0.02
Fluoride	1.4 - 2.4[2]	< 0.1	< 0.2	< 0.2	< 0.1	< 0.2	< 0.1
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.011
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.001	< 0.001	< 0.001	0.002	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	0.02	0.03	< 0.01	< 0.01	0.05	0.03
pH	6.5 - 8.5[3]	7.4	6.0	8.2	7.6	5.6	6.5
Phenols	3.5[4]	8.1	0.098	37.6	14.6	4.5	0.155

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulatior
4. 45 FR 79338 - Human health criteria developed under the Cl[redacted]ter Act
5. Federal Register, Vol. 45, No. 231, November 28, 1980, page [redacted]31.

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TABLE II
ASTM LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER[1]	DRINKING WATER STANDARDS	METALS RECLAMATION RESIDUALS PILE	GREY IRON CORE WASTE COMPOSITE (ISO, OIL, SHELL, & HOT)	NODULAR IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	COMPOSITE CORES CLASSIFIED SAND, METALS RECLAMATION RESIDUALS
Arsenic	0.05[2]	0.059	< 0.001	0.002	0.001	0.024
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	1.4 - 2.4[2]	5.3	< 0.1	< 0.1	8.9	5.9
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.002	< 0.001	0.001	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	< 0.01	0.01	< 0.01	< 0.01	< 0.01
pH	6.5 - 8.5[3]	11.2	6.4	7.9	9.8	11.5
Phenols	3.5[4]	0.165	0.270	48.4	< 0.025	1.3

(D130)

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 1980, page 79331.

Sampling of Solid Wastes
collected 11/16/92

Sample: 05A Core Scrap/240 **Collected: 11/16/92 Category: SOLID**
Job: GM_A Inorganics, List A

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	1.3	0.2	mg/kg As	11/30/92	TAS
Barium, Total	45	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.04	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	2100	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	51	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	1	1	mg/kg Co	12/09/92	JBC
Copper, Total	19	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	<0.5	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	2.7	0.25	mg/kg Pb	12/10/92	JKM
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	380	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	210	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	10	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	20	2	mg/kg Ni	12/09/92	JBC
Percent Solids	93	1	% wt.	11/30/92	RWC
Phosphorus, Total	<5*	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	90	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	100	25	mg/kg Na	12/09/92	JBC
Zinc, Total	19	0.5	mg/kg Zn	12/09/92	JBC

Sample: 05E Core Scrap/240 **Collected: 11/16/92 Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	1.6	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.1	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK

Test Description	Result	Det Limit	Units	Analyzed	By
Nitrate, Leachable	0.17	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	<0.05	0.05	mg/L P	12/03/92	SMC

Collected: 11/16/92 Category: SOLID

Sample: 05F Core Scrap/240
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	6.780		S.U.	12/02/92	JK

Collected: 11/16/92 Category: SOLID

Sample: 06A Core Scrap/247
Job: GM_A Inorganics, List A

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	1.6	0.2	mg/kg As	11/30/92	TAS
Barium, Total	19	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	<0.025	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	4300	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	83	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	30	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	0.5	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	2.1	0.25	mg/kg Pb	12/10/92	JKM
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	510	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	480	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	10	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	23	2	mg/kg Ni	12/09/92	JBC
Percent Solids	91	1	% wt.	11/30/92	RWC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	100	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/23/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/23/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	100	25	mg/kg Na	12/09/92	JBC
Zinc, Total	18	0.5	mg/kg Zn	12/09/92	JBC

Sample: 06E Core Scrap/247 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	2.6	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	4	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.1	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.07	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.08	0.05	mg/L P	12/03/92	SMC

Sample: 06F Core Scrap/247 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	6.674		S.U.	12/02/92	JK

Sample: 07A Core Scrap/103 **Collected: 11/16/92** **Category: SOLID**
Job: GM_A Inorganics, List A

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	0.59	0.2	mg/kg As	11/30/92	TAS
Barium, Total	90	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	<0.025	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	2100	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	11	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	<1	1	mg/kg Co	12/09/92	JBC
Copper, Total	3	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	<0.5	0.5	mg/kg CN	11/22/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	1.8	0.25	mg/kg Pb	12/10/92	JKM
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	300	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	160	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	<5	5	mg/kg Mo	12/09/92	JBC
Nick[illegible] Total	4	2	mg/kg Ni	12/09/92	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Percent Solids	93	1	% wt.	11/30/92	RWC
Phosphorus, Total	3.1	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	100	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/25/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/25/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	50	25	mg/kg Na	12/09/92	JBC
Zinc, Total	32	0.5	mg/kg Zn	12/09/92	JBC

Sample: 07E Core Scrap/103 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	8	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	0.2	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.13	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.22	0.05	mg/L P	12/03/92	SMC

Sample: 07F Core Scrap/103 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB
Corrosivity (pH)	6.681		S.U.	12/02/92	JK

Sample: 08A Core Scrap/40 Collected: 11/16/92 Category: SOLID
Job: GM_A Inorganics, List A

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	0.63	0.2	mg/kg As	11/30/92	TAS
Barium, Total	28	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	0.1	0.025	mg/kg Cd	12/11/92	TAS
Calcium, Total	5700	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	26	1	mg/kg Cr	12/09/92	JBC

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Test Description	Result	Det Limit	Units	Analyzed	By
Cobalt, Total	<1	1	mg/kg Co	12/09/92	JBC
Copper, Total	5	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	<0.5	0.5	mg/kg CN	11/22/92	REB
Ignitability	>95		Degrees C	12/09/92	DIH
Lead, Total	4.3	0.25	mg/kg Pb	12/10/92	JKM
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	450	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	430	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	<5	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	4	2	mg/kg Ni	12/09/92	JBC
Percent Solids	96	1	% wt.	11/30/92	RWC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/23/92	SMC
Potassium, Total	100	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/25/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/25/92	WMW
Selenium, Total	<0.2	0.2	mg/kg Se	11/30/92	TAS
Silver, Total	<0.2	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	80	25	mg/kg Na	12/09/92	JBC
Zinc, Total	66	0.5	mg/kg Zn	12/09/92	JBC

Sample: 08E Core Scrap/40 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	12/03/92	DIH
Biochemical Oxygen Demand	3	3	mg/L O2	12/04/92	SMC
Chloride, Leachable	<2	2	mg/L Cl	12/04/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	12/02/92	JK
Fluoride, Leachable	<0.1	0.1	mg/L F	12/04/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	12/02/92	JK
Nitrate, Leachable	0.70	0.05	mg/L N	12/04/92	DIH
Orthophosphate, Leachable	0.11	0.05	mg/L P	12/03/92	SMC

Sample: 08F Core Scrap/40 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	12/10/92	JB

037708

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Test Description	Result	Det Limit	Units	Analyzed	By
Corrosivity (pH)	6.661		S.U.	12/02/92	JK

Sample Description: **Core Scrap/240** Collected: **11/16/92 14:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

ANALYST: TLD FILE #: 3NO24541
INSTRMT: FINN3 INJECTED: 11/22/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	29	5
75-27-4	Bromodichloromethane	BDL	5
75-25-2	Bromoform	BDL	5
74-83-9	Bromomethane	BDL	10
56-23-5	Carbon tetrachloride	BDL	5
108-90-7	Chlorobenzene	BDL	5
75-00-3	Chloroethane	BDL	10
110-75-8	2-Chloroethylvinyl ether	BDL	10
67-66-3	Chloroform	BDL	5
74-87-3	Chloromethane	BDL	10
124-48-1	Dibromochloromethane	BDL	5
75-71-8	Dichlorodifluoromethane	BDL	5
75-34-3	1,1-Dichloroethane	BDL	5
107-06-2	1,2-Dichloroethane	BDL	5
75-35-4	1,1-Dichloroethene	BDL	5
156-60-5	trans-1,2-Dichloroethene	BDL	5
78-87-5	1,2-Dichloropropane	BDL	5
10061-01-5	cis-1,3-Dichloropropene	BDL	5
10061-02-6	trans-1,3-Dichloropropene	BDL	5
100-41-4	Ethyl benzene	BDL	5
75-09-2	Methylene chloride	36	5
79-34-5	1,1,2,2-Tetrachloroethane	BDL	5
127-18-4	Tetrachloroethene	BDL	5
75-69-4	Trichlorofluoromethane	BDL	10
79-01-6	Trichloroethene	BDL	5
71-55-6	1,1,1-Trichloroethane	64	5
79-00-5	1,1,2-Trichloroethane	BDL	5
108-88-3	Toluene	10	5
75-01-4	Vinyl chloride	BDL	10
1330-20-7	Xylenes, Total	34	5
51-79-6	Urethane	ND	

037730

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/240** Collected: **11/16/92 14:15** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	117	% Recovery
Toluene-d8	110	% Recovery
p-Bromofluorobenzene	87	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037731

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/240** Collected: **11/16/92 14:15** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **05C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8858
INSTRMT: FINN4 INJECTED: 12/09/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**9500**	1650
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**2200 ***	

SURROGATES

2-Fluorophenol	73 % Recovery	2-Fluorobiphenyl	71 % Recovery
Phenol-d5	49 % Recovery	2,4,6-Tribromophenol	93 % Recovery
Nitrobenzene-d5	61 % Recovery	p-Terphenyl-d14	68 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/240** Collected: **11/16/92 14:15** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **05D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	0.3	500.0
	50-00-0	Formaldehyde	1.7 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037733

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/240** Collected: **11/16/92 14:15** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **05F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037734

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/247** Collected: **11/16/92 14:30** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

ANALYST: TLD FILE #: 1NO24542
INSTRMT: FINN3 INJECTED: 11/22/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**28**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**44**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**29**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**78**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**10**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**19**	5
51-79-6	Urethane	**ND**	

037735

Sample Description: **Core Scrap/247** Collected: **11/16/92 14:30** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	116	% Recovery
Toluene-d8	116	% Recovery
p-Bromofluorobenzene	87	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037736

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/247** Collected: **11/16/92 14:30** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **06C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8859
INSTRMT: FINN4 INJECTED: 12/09/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**4600**	160
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	660
000-00-0	Triaryl phosphate esters	**2100 ***	

SURROGATES

2-Fluorophenol	85 % Recovery	2-Fluorobiphenyl	69 % Recovery
Phenol-d5	28 % Recovery	2,4,6-Tribromophenol	94 % Recovery
Nitrobenzene-d5	62 % Recovery	p-Terphenyl-d14	66 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

037737

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/247** Collected: **11/16/92 14:30** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **06D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**0.3**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**0.3**	500.0
	50-00-0	Formaldehyde	**0.05 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVRIONMENTAL CONSULTANTS

Sample Description: **Core Scrap/247** Collected: **11/16/92 14:30** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **06F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037739

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/103** Collected: **11/16/92 14:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

ANALYST: TLD FILE #: 3GM24565
INSTRMT: FINN3 INJECTED: 11/23/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**47**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**8 E**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**BDL**	5
51-79-6	Urethane	**ND**	

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/103** Collected: **11/16/92 14:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	103	% Recovery
Toluene-d8	117	% Recovery
p-Bromofluorobenzene	66 *	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE
E = ESTIMATED CONCENTRATION DUE TO SAMPLE MATRIX INTERFERENCE WITH INTERNAL STANDARD

037741

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/103** Collected: **11/16/92 14:45** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **07C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/30/92 FILE #: 4NO8860
INSTRMT: FINN4 INJECTED: 12/09/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	160
106-46-7	1,4-Dichlorobenzene	**BDL**	160
95-50-1	1,2-Dichlorobenzene	**BDL**	160
59-50-7	4-Chloro-3-methylphenol	**BDL**	160
95-57-8	2-Chlorophenol	**BDL**	160
120-83-2	2,4-Dichlorophenol	**BDL**	160
105-67-9	2,4-Dimethylphenol	**BDL**	160
51-28-5	2,4-Dinitrophenol	**BDL**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	825
88-75-5	2-Nitrophenol	**BDL**	160
100-02-7	4-Nitrophenol	**BDL**	825
87-86-5	Pentachlorophenol	**BDL**	825
108-95-2	Phenol	**7300**	1650
88-06-2	2,4,6-Trichlorophenol	**BDL**	160
117-81-7	Bis(2-ethylhexyl)phthalate	**850**	660
000-00-0	Triaryl phosphate esters	**770 ***	

SURROGATES

-Fluorophenol	75 % Recovery	2-Fluorobiphenyl	73 % Recovery
Phenol-d5	64 % Recovery	2,4,6-Tribromophenol	90 % Recovery
itrobenzene-d5	64 % Recovery	p-Terphenyl-d14	69 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

037742

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/103** Collected: **11/16/92 14:45** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **07D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92

VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	<1	100.0
D006	7440-43-9	Cadmium	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	5.0
D008	7439-92-1	Lead	<1	5.0
D010	7782-49-2	Selenium	<0.04	1.0
	7440-50-8	Copper	<0.2	100.0
	7440-66-6	Zinc	1.3	500.0
	50-00-0	Formaldehyde	0.25 *	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037743

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/103** Collected: **11/16/92 14:45** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **07F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/19/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/20/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/40** Collected: **11/16/92 15:07** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

ANALYST: TLD FILE #: 3NO24544
INSTRMT: FINN3 INJECTED: 11/22/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**BDL**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**35**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**6**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**BDL**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**BDL**	5
51-79-6	Urethane	**ND**	

037745

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/40** Collected: **11/16/92 15:07** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	119	% Recovery
Toluene-d8	90	% Recovery
p-Bromofluorobenzene	82	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH

037746

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/40** Collected: **11/16/92 15:07** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **08C** Category: **SOLID**

ANALYST: SPL EXTRACTED: 11/30/92 FILE #: 4NO8789
INSTRMT: FINN4 INJECTED: 12/04/92 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	BDL	160
106-46-7	1,4-Dichlorobenzene	BDL	160
95-50-1	1,2-Dichlorobenzene	BDL	160
59-50-7	4-Chloro-3-methylphenol	BDL	160
95-57-8	2-Chlorophenol	BDL	160
120-83-2	2,4-Dichlorophenol	BDL	160
105-67-9	2,4-Dimethylphenol	BDL	160
51-28-5	2,4-Dinitrophenol	BDL	825
534-52-1	2-Methyl-4,6-dinitrophenol	BDL	825
88-75-5	2-Nitrophenol	BDL	160
100-02-7	4-Nitrophenol	BDL	825
87-86-5	Pentachlorophenol	BDL	825
108-95-2	Phenol	13000	1650
88-06-2	2,4,6-Trichlorophenol	BDL	160
117-81-7	Bis(2-ethylhexyl)phthalate	760	660
000-00-0	Triaryl phosphate esters	1200 *	

SURROGATES

2-Fluorophenol	79 % Recovery	2-Fluorobiphenyl	70 % Recovery
Phenol-d5	34 % Recovery	2,4,6-Tribromophenol	89 % Recovery
Nitrobenzene-d5	65 % Recovery	p-Terphenyl-d14	62 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

037747

Sample Description: **Core Scrap/40** Collected: **11/16/92 15:07** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLP** Lab No: **08D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/19/92 VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	UNITS: mg/L RESULT	REGULATORY LIMIT
D005	7440-39-3	Barium	**<1**	100.0
D006	7440-43-9	Cadmium	**<0.1**	1.0
D007	7440-47-3	Chromium	**<0.2**	5.0
D008	7439-92-1	Lead	**<1**	5.0
D010	7782-49-2	Selenium	**<0.04**	1.0
	7440-50-8	Copper	**<0.2**	100.0
	7440-66-6	Zinc	**0.2**	500.0
	50-00-0	Formaldehyde	**2.0 ***	

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

037748

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Core Scrap/40** Collected: **11/16/92 15:07** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **08F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/23/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 12/02/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

037749

Sampling of Solid Wastes
collected 10/13/93

KEMRON ENVIRONMENTAL SERVICES
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Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N3-10-280
Date: 11/23/93 13:05
Work ID: GM-Core Butts
Date Received: 10/15/93
Date Completed: 11/22/93
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	CB-1
02	CB-2
03	CB-3
04	CB-4
05	CB-5
06	CB-6
07	CB-7
08	CB-8

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Certified By
Leslie Bucina

KEMRON ENVIRONMENTAL SERVICES

Sample: 01A CB-1 **Collected: 10/13/93 Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	760	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	0.9	0.2	mg/kg As	11/03/93	JEC
Barium, Total	13	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.08	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	4900	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	27	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	13	1	mg/kg Cu	10/26/93	JBC
Iron, Total	11,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	2.3	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	480	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	150	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	8	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	100	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	0.3	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	90	25	mg/kg Na	10/27/93	JBC
Zinc, Total	22	0.5	mg/kg Zn	10/26/93	JBC

Sample: 01B CB-1 **Collected: 10/13/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/26/93	JWR
Ignitability	>95		Degrees C	11/01/93	DIH
Percent Solids	100	1	% wt.	10/25/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	11/01/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 01E CB-1 **Collected: 10/13/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.4	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	7	3	mg/L O2	10/20/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	4.3	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 01F CB-1 **Collected: 10/13/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	9.28		S.U.	10/19/93	JMK
Formaldehyde	5900	400	UG/KG	10/18/93	GVR

Sample: 01G CB-1 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	220	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.064	0.005	mg/L Phenol	10/28/93	REB

Sample: 02A CB-2 **Collected: 10/13/93 Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	1200	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	0.4	0.2	mg/kg As	11/03/93	JEC
Barium, Total	18	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	<0.025	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	6000	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	21	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	2	1	mg/kg Cu	10/26/93	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Iron, Total	2300	2	mg/kg Fe	10/27/93	JBC
Lead, Total	2	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	410	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	460	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	2	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	90	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	0.2	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	60	25	mg/kg Na	10/27/93	JBC
Zinc, Total	33	0.5	mg/kg Zn	10/26/93	JBC

Sample: 02B CB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/26/93	JWR
Ignitability	>95		Degrees C	11/01/93	DIH
Percent Solids	100	1	% wt.	10/25/93	DJP
Phosphorus, Total	2.6	2.5	mg/kg P	11/01/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 02E CB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.4	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	13	3	mg/L O2	10/20/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/19/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/19/93	JMK
Nitrate, Leachable	18.0	1	mg/L N	11/01/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 02F CB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.89		S.U.	10/19/93	JMK
Formaldehyde	2600	400	UG/KG	10/18/93	GVR

Sample: 02G CB-2 **Collected: 10/13/93** **Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	630	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.20	0.005	mg/L Phenol	10/28/93	REB

Sample: 03A CB-3 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	870	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	0.7	0.2	mg/kg As	11/03/93	JEC
Barium, Total	16	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	0.04	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	3100	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	31	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	12	1	mg/kg Cu	10/26/93	JBC
Iron, Total	11,000	2	mg/kg Fe	10/27/93	JBC
Lead, Total	2.6	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	490	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	220	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	10	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	80	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	0.3	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	100	25	mg/kg Na	10/27/93	JBC
Zinc, Total		0.5	mg/kg Zn	10/26/93	J

Sample: 03B CB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/26/93	JWR
Ignitability	>95		Degrees C	11/01/93	DIH
Percent Solids	99	1	% wt.	10/25/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	11/01/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 03E CB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	16	3	mg/L O2	10/22/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	5.1	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 03F CB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.76		S.U.	10/20/93	JMK
Formaldehyde	1600	400	UG/KG	10/18/93	GVR

Sample: 03G CB-3 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.013	0.005	mg/L Phenol	10/28/93	REB

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TEST RESULTS BY SAMPLE

Sample: 04A CB-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	600	5	mg/kg Al	10/26/93	JBC
Arsenic, Total	0.8	0.2	mg/kg As	11/03/93	JEC
Barium, Total	11	0.5	mg/kg Ba	10/26/93	JBC
Cadmium, Total	<0.025	0.025	mg/kg Cd	11/02/93	TAS
Calcium, Total	1300	10	mg/kg Ca	10/27/93	JBC
Chromium, Total	21	1	mg/kg Cr	10/26/93	JBC
Cobalt, Total	<1	1	mg/kg Co	10/28/93	JBC
Copper, Total	7	1	mg/kg Cu	10/26/93	JBC
Iron, Total	7300	2	mg/kg Fe	10/27/93	JBC
Lead, Total	2.5	0.25	mg/kg Pb	11/02/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/27/93	JBC
Magnesium, Total	350	25	mg/kg Mg	10/27/93	JBC
Manganese, Total	130	0.5	mg/kg Mn	10/26/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/01/93	TAS
Nickel, Total	6	2	mg/kg Ni	10/26/93	JBC
Potassium, Total	<50	50	mg/kg K	10/27/93	JBC
Selenium, Total	<0.2	0.2	mg/kg Se	11/02/93	TAS
Silver, Total	0.4	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	80	25	mg/kg Na	10/27/93	JBC
Zinc, Total	29	0.5	mg/kg Zn	10/26/93	JBC

Sample: 04B CB-4 **Collected: 10/13/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	<0.5	0.5	mg/kg CN	10/26/93	JWR
Ignitability	>95		Degrees C	11/01/93	DIH
Percent Solids	99	1	% wt.	10/25/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	11/01/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/02/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	11/03/93	SMC

Sample: 04E CB-4 **Collected: 10/13/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.5	0.1	mg/L N	10/25/93	REB
Biochemical Oxygen Demand	9	3	mg/L O2	10/22/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/20/93	JMK
Fluoride, Leachable	<0.5	0.5	mg/L F	10/21/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/20/93	JMK
Nitrate, Leachable	3.0	1	mg/L N	10/21/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/21/93	JMK

Sample: 04F CB-4 **Collected: 10/13/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.93		S.U.	10/20/93	JMK
Formaldehyde	11,000	400	UG/KG	10/18/93	GVR

Sample: 04G CB-4 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	200	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.038	0.005	mg/L Phenol	10/28/93	REB

Sample: 05A CB-5 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	350	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.12	0.005	mg/L Phenol	10/28/93	REB

Sample: 06A CB-6 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	100	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.046	0.005	mg/L Phenol	10/28/93	REB

Sample: 07A CB-7 **Collected: 10/13/93 Category: SOLID**
Job: GM8 SPLP Analytes - SW1312 - 4

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	420	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.80	0.005	mg/L Phenol	10/28/93	REB

Sample: 08A CB-8 **Collected: 10/13/93 Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, SPLP Leachate	<0.01	0.01	mg/L CN	10/26/93	JWR
Formaldehyde, SPLP-SW1312	<20	20	UG/L	10/25/93	GVR
Phenolics - SPLP Leachate	0.007	0.005	mg/L Phenol	10/28/93	REB

TEST RESULTS BY SAMPLE

Sample Description: **CB-1** Collected: **10/13/93 11:30** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **01C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33632
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	38	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **CB-1**
Test Description: **Volatile Organics**

Collected: **10/13/93 11:30** Method: 8260
Test Code: **GM826** Lab No: **01C** Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	96	% Recovery
Toluene-d8	115	% Recovery
p-Bromofluorobenzene	93	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-1** Collected: **10/13/93 11:30** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **01D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 020F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**25**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	50 % Recovery
2,4,5,6-tetrachloro-m-xylene	70 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **CB-1** Collected: **10/13/93 11:30** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/27/93 FILE #: 1GM25544
INSTRMT: FINN1 INJECTED: 11/02/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**770**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**14,000**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**8500**

Sample Description: **CB-1** Collected: **10/13/93 11:30** Method: 8270
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01D** Category: SOLID

SURROGATES	
2-Fluorophenol	61 % Recovery
Phenol-d6	76 % Recovery
Nitrobenzene-d5	80 % Recovery
2-Fluorobiphenyl	72 % Recovery
2,4,6-Tribromophenol	79 % Recovery
p-Terphenyl-d14	83 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-1** Collected: **10/13/93 11:30** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **01G** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31384
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	90	% Recovery
Toluene-d8	98	% Recovery
4-Bromofluorobenzene	89	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **02C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33633
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	10	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: 8260
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **02C** Category: SOLID

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	93	% Recovery
Toluene-d8	105	% Recovery
p-Bromofluorobenzene	88	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **02D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 022F0101
INSTRMT: HP_IV INJECTED: 10/26/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	54	% Recovery
2,4,5,6-tetrachloro-m-xylene	72	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **02D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/27/93 FILE #: 1GM25543
INSTRMT: FINN1 INJECTED: 11/02/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**18,000**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**1800**

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **02D** Category: **SOLID**

SURROGATES	
2-Fluorophenol	85 % Recovery
Phenol-d6	76 % Recovery
Nitrobenzene-d5	84 % Recovery
2-Fluorobiphenyl	76 % Recovery
2,4,6-Tribromophenol	93 % Recovery
p-Terphenyl-d14	93 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-2** Collected: **10/13/93 11:35** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **02G** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31388
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	100	% Recovery
Toluene-d8	96	% Recovery
4-Bromofluorobenzene	98	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **03C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33634
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	45	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **03C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	93	% Recovery
Toluene-d8	117	% Recovery
p-Bromofluorobenzene	82	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **03D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 076R0101
INSTRMT: HP_IV INJECTED: 10/28/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	55	% Recovery
2,4,5,6-tetrachloro-m-xylene	65	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **03D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/27/93 FILE #: 1GM25545
INSTRMT: FINN1 INJECTED: 11/02/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**12,000**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**1500**

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **03D** Category: **SOLID**

SURROGATES	
2-Fluorophenol	85 % Recovery
Phenol-d6	85 % Recovery
Nitrobenzene-d5	84 % Recovery
2-Fluorobiphenyl	76 % Recovery
2,4,6-Tribromophenol	88 % Recovery
p-Terphenyl-d14	92 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-3** Collected: **10/13/93 11:40** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **03G** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31389
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	6	5

SURROGATES

1,2-Dichloroethane-d4	105	% Recovery
Toluene-d8	104	% Recovery
4-Bromofluorobenzene	102	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04C** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33635
INSTRMT: FINN2 INJECTED: 10/21/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	42	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	95	% Recovery
Toluene-d8	109	% Recovery
p-Bromofluorobenzene	88	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **04D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/25/93 FILE #: 024F0101
INSTRMT: HP_IV INJECTED: 10/27/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**ND**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	52 % Recovery
2,4,5,6-tetrachloro-m-xylene	71 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/27/93 FILE #: 1GM25546
INSTRMT: FINN1 INJECTED: 11/02/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	660
59-50-7	4-Chloro-3-methylphenol	**ND**	160
95-57-8	2-Chlorophenol	**ND**	160
120-83-2	2,4-Dichlorophenol	**ND**	160
105-67-9	2,4-Dimethylphenol	**ND**	160
51-28-5	2,4-Dinitrophenol	**ND**	825
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	825
88-75-5	2-Nitrophenol	**ND**	160
100-02-7	4-Nitrophenol	**ND**	825
87-86-5	Pentachlorophenol	**ND**	825
108-95-2	Phenol	**9500**	160
95-95-4	2,4,5-Trichlorophenol	**ND**	825
88-06-2	2,4,6-Trichlorophenol	**ND**	160

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**1500**

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: **SOLID**

SURROGATES	
2-Fluorophenol	67 % Recovery
Phenol-d6	80 % Recovery
Nitrobenzene-d5	78 % Recovery
2-Fluorobiphenyl	78 % Recovery
2,4,6-Tribromophenol	85 % Recovery
p-Terphenyl-d14	87 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **CB-4** Collected: **10/13/93 11:45** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **04G** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31390
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	109	% Recovery
Toluene-d8	103	% Recovery
4-Bromofluorobenzene	104	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Sample Description: **CB-5** Collected: **10/13/93 11:50** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **05A** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31391
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	105	% Recovery
Toluene-d8	105	% Recovery
4-Bromofluorobenzene	104	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

KEMRON ENVIR. .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **CB-6** Collected: **10/13/93 11:55** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **06A** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31392
INSTRMT: FINN3 INJECTED: 10/25/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	110	% Recovery
Toluene-d8	106	% Recovery
4-Bromofluorobenzene	108	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

KEMRON ENVIR. .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **CB-7** Collected: **10/13/93 12:00** Method: 8260
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **07A** Category: SOLID

ANALYST: TLD
INSTRMT: FINN3 INJECTED: 10/25/93 FILE #: 3GM31393
FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	112	% Recovery
Toluene-d8	104	% Recovery
4-Bromofluorobenzene	113	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

KEMRON ENVIR ..ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **CB-8** Collected: **10/13/93 12:05** Method: **8260**
Test Description: **Benzene - SPLP Leachate** Test Code: **BENZSL** Lab No: **08A** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31409
INSTRMT: **FINN3** INJECTED: 10/26/93 FACTOR: 1 UNITS: ug/L VERIFIED RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5

SURROGATES

1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	106	% Recovery
4-Bromofluorobenzene	110	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE.
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED

Appendix 10.3
Available Laboratory Analytical Data
Powerhouse AST's

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

Fuel Oil

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
2100 Veterans Memorial Parkway
Saginaw, MI 48605-5073
Attn: M. E. Robinson

March 18, 1986

AMENDED REPORT

Samples Received: 12-6-85

Hydro Numbers:	1654	1655
Client I.D.:	Triple Clean Samples 8-13	Triple Clean Samples 1-6
Arsenic, As, ppm	<0.5	<0.4
Cadmium, Cd, ppm	1.6	1.0
Chromium, Total, Cr, ppm	11	18
Lead, Pb, ppm	<2	<2
Copper, Cu, ppm	1.3	1.3
Zinc, Zn, ppm	10	25
Nickel, Ni, ppm	1.3	6.2
Flash Point °F (actual)	335	255
Total Halogens, ppm	<500	2,800
BTU/lb	18,300	18,500
BTU/gal	148,000	144,000
Specific Gravity	0.973	0.933
API Gravity	13.8	19.7
Sulfur, %	0.66	0.7
Viscosity @ 100°F, cSt	66	100
Viscosity @ 205°F, cSt	7.8	9.5
Viscosity @ 100°F SUS	300.4	462.0
Viscosity @ 205°F SUS	51.7	57.5
PCB, ppm		
Aroclor 1242	<1	<1
Aroclor 1254	--	--
Aroclor 1260	<1	<1

ASTM-Viscosity @ 100°F MIN 900 - 9000 MAX (SUS)

Susan K. Scott
LABORATORY SUPERVISOR

1-29-86
Fuel Oil/1c

GM SAGINAW GREY IRON PLT.
CAL REPORT# 10476

SAMPLES RECEIVED 11/19/90

LAB# 9230827 POWERHOUSE--NORTH TANK
LAB# 9230828 POWERHOUSE--WEST TANK

LAB# / UNITS	9230827 mg/kg	9230828 mg/kg
Density, g/ml	7.4	7.9
Heating Value, BTU/lb	18300	18000
Total Halogens, as CL	480	740
Ash Solids, %	0.08	0.04
Moisture, %	8.0	2.0
Sulfur, Total	1100	210
Flash Point, Deg. F	> 200 *Y	> 200 *Y
Arsenic, Total	< 0.10	< 0.10
Cadmium, Total	1.0	1.0
Chromium, Total	< 1.0	< 1.0
Lead, Total	< 4.5	< 4.5
PCB'S BY AROCHLOR		
PCB-1016	< 1.0	< 2.0
PCB-1221	< 1.0	< 2.0
PCB-1232	< 1.0	< 2.0

*YES/NO, CAPACITY TO SUSTAIN BURNING AFTER BEING FLAMED.

Canton Analytical Laboratory, Inc.
(313) 483-7430 FAX (313) 485-1541

GM SAGINAW GREY IRON PLT.
CAL REPORT# 10476

SAMPLES RECEIVED 11/19/90

LAB#	9230827	9230828
UNITS	mg/kg	mg/kg
PCB-1242	< 1.0	< 2.0
PCB-1248	< 1.0	< 2.0
PCB-1254	< 1.0	< 2.0
PCB-1260	< 1.0	< 2.0
PCB-1262	< 1.0	< 2.0
PCB, Total	< 1.0	< 2.0 **

**Elevated level of detection due to matrix interference.

Canton Analytical Laboratory, Inc.
(313) 483-7430 FAX (3[illegible]45-1541

Appendix 10.4
Available Laboratory Analytical Data
Riverdock Crane Repair Building UST #6

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

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	TANK No 8	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 #: 169313

Sample Identification: Saginaw Grey Iron, Water, Diesel 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 co-eluting peaks.

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Detection Limit

Reference- SW-846, Method 3510 & 8310

mp for JM

Analyst

QEL Report #: 9240

QEL Sample #: 169313

Sample Identification: Saginaw Grey Iron, Water, Diesel Tank Exc.

Date Completed: 11/12/92

BTEX Analysis in Water

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Benzene	ND	1.0
Toluene	BDL	1.0
Ethylbenzene	ND	1.0
Xylenes	9.1	1.0

SURROGATE	% RECOVERY
FBenzene	110

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Detection Limit

Reference- SW-846, Method 3810 & 8020

Analyst

QEL Report #: 9240

QEL Sample #: 169314

Sample Identification: Saginaw Grey Iron, Soil, North Wall Diesel Tank

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	97

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Limit

Reference- SW-846, Method 3550 & 8310

Analyst

QEL Report #: 9240

QEL Sample #: 169314

Sample Identification: Saginaw Grey Iron, Soil, North Wall Diesel Tank

Date Completed: 11/12/92

BTEX Analysis in Soil

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
Xylenes	ND	30.0

SURROGATE	% RECOVERY
FBenzene	113

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Detection Limit

Reference- SW-846, Method 3810 & 8020

MP Morgan

Analyst

QEL Report #: 9240

QEL Sample #: 169315

Sample Identification: Saginaw Grey Iron, Soil, East Wall Diesel Tank

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	BDL	330
Anthracene	BDL	330
Fluoranthene	BDL	330
Pyrene	340	330
Benzo(a)anthracene	BDL	330
Chrysene	BDL	330
Benzo(b)fluoranthene	BDL	330
Benzo(k)fluoranthene	BDL	330
Benzo(a)pyrene	BDL	330
Dibenz(a,h)anthracene	ND	330
Benzo(ghi)perylene	BDL	330
Ideno(1,2,3,-cd)pyrene	BDL	330

SURROGATE	% RECOVERY
D5-Nitrobenzene	111

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Limit

Reference- SW-846, Method 3550 & 8310

Analyst

QEL Report #: 9240

QEL Sample #: 169315

Sample Identification: Saginaw Grey Iron, Soil, East Wall Diesel Tank

Date Completed: 11/12/92

BTEX Analysis in Soil

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
Xylenes	ND	30.0

SURROGATE	% RECOVERY
FBenzene	98

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Detection Limit

Reference- SW-846, Method 3810 & 8020

Analyst

QEL Report #: 9240

QEL Sample #: 169316

Sample Identification: Saginaw Grey Iron, Soil, West Wall Diesel Tank

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	100

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Limit

Reference- SW-846, Method 3550 & 8310

Analyst

QEL Report #: 9240

QEL Sample #: 169316

Sample Identification: Saginaw Grey Iron, Soil, West Wall Diesel Tank

Date Completed: 11/12/92

BTEX Analysis in Soil

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
Xylenes	ND	30.0

SURROGATE	% RECOVERY
FBenzene	130

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Detection Limit

Reference- SW-846, Method 3810 & 8020

Analyst

QEL Report #: 9240

QEL Sample #: 169317

Sample Identification: Saginaw Grey Iron, Soil, South Wall Diesel Tank

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	88

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Limit

Reference- SW-846, Method 3550 & 8310

Analyst

QEL Report #: 9240

QEL Sample #: 169317

Sample Identification: Saginaw Grey Iron, Soil, South Wall Diesel Tank

Date Completed: 11/12/92

BTEX Analysis in Soil

COMPOUND	RESULT (ppb)	METHOD DETECTION LIMIT
Benzene	ND	10.0
Toluene	ND	10.0
Ethylbenzene	ND	10.0
Xylenes	ND	30.0

SURROGATE	% RECOVERY
FBenzene	100

ND Denotes Not Detected at the Listed Detection Limit

BDL Denotes Detected, but below Reporting Detection Limit

Reference- SW-846, Method 3810 & 8020

Analyst

APPENDIX C

ANALYTICAL RESULTS-OCTOBER 1993

ANATECH

Analytical Laboratories

ANALYTICAL REPORT

CLIENT:	Conestoga Rovers & Associates		
PROJECT:	GMPT - SG1 #5397-10	DATE SAMPLED:	10/13/93
LAB REF. NO.:	34578	DATE RECEIVED:	10/14/93
SAMPLED BY:	MT	DATE FINISHED:	10/14/93
DESCRIPTION:	Soil Sample	REPORT DATE:	11/18/93
ANALYST:	OY		

LAB SAMPLE I.D.:	9368	LIMIT OF	METHOD
CLIENT SAMPLE I.D.:	S-101393-MRT-SG1002	DETECTION	NUMBER
Semi-Volatile Fraction TPH	630	10	California LUFT
Total Petroleum Hydrocarbon	490	100	EPA 418.1

Results are in mg/kg

C. David Hainer
Project Manager

nel

GM POWERTRAIN DIVISION GMC
SAGINAW GREY IRON PLANT
1629 N. WASHINGTON AVENUE
P. O. BOX 5073
SAGINAW, MI 48605-5073
ATTN: STEVE HARRINGA

DATE RECEIVED: 7-8-93
DATE ANALYZED: 7-9-93
JOB #: 93-318
SAMPLED BY: KA
REPORT DATED: 7-12-93

LAB ID: SOIL SAMPLE - VERIFICATION OF REMEDIATION SERVICES FOR UST #6 EXCAVATION - PO #SGIF758550

LAB #: 93-1014

Poly-Nuclear Aromatics (PNA)
EPA Method 8310

Parameter		DL
Naphthalene	2.7	.33 mg/kg
Acenaphthylene	<.33	.33 mg/kg
Acenaphthene/ Fluorene	4.4	.33 mg/kg
Phenanthrene	<.33	.33 mg/kg
Anthracene	5.3	.33 mg/kg
Fluoranthene	5.2	.33 mg/kg
Pyrene	4.2	.33 mg/kg
Benzo(a)anthracene/ Chrysene	0.83	.33 mg/kg
Benzo(b)fluoranthene	<.33	.33 mg/kg
Benzo(k)fluoranthene	<.33	.33 mg/kg
Benzo(a)pyrene	<.33	.33 mg/kg
Dibenzo(a,h)anthracene	<.33	.33 mg/kg
Benzo(ghi)perylene	<.33	.33 mg/kg
Indeno(1,2,3-cd)pyrene	<.33	.33 mg/kg

< = Less Than
DL = Detection Limit

Leslie Oberts
Lab Manager
SAMTEST, INC.
c:\analy\93-318

GM POWERTRAIN DIVISION GMC
SAGINAW GREY IRON PLANT
1629 N. WASHINGTON AVENUE
P. O. BOX 5073
SAGINAW, MI 48605-5073
ATTN: STEVE HARRINGA

DATE RECEIVED: 7-8-93
DATE ANALYZED: 7-9-93
JOB #: 93-318
SAMPLED BY: KA
REPORT DATED: 7-12-93

LAB ID: SOIL SAMPLE - VERIFICATION OF REMEDIATION SERVICES FOR UST #6 EXCAVATION - PO #SGIF758550

LAB #: 93-1014

BTEX (EPA 8020)

		DL
Benzene (µg/kg)	< 10	10
Toluene (µg/kg)	< 10	10
Ethlybenzene (µg/kg)	24	10
Xylenes (µg/kg)	53	30

DL = Detection Limit
< = Less Than

Leslie Oberts
Lab Manager
SAMTEST, INC.

c:\analy\93-318

Appendix 10.5
Available Laboratory Analytical Data
Former Mill Water Pump House UST, N.I. #9

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burman Technical Services, Inc
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313-334-4747

Bierlein Environmental Services
2903 South Graham
Saginaw, MI 48603
Attn: Stan Baker

August 24, 1988

PROGRAM: CFD - SNI

Date Received: 7-29-88

ALD Number: 42033

Client I.D.: E87-2693-12
Mill Water Pump House
East Side
7-29-88

Physical Description: Moist Soil

As Received:

Total Solids @ 104°C, %	83
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.12
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 46 mls of 0.5 N acetic acid was 4.8.

WA/lr

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 24, 1988

PROGRAM: CFD - SNI

Date Received: 7-29-88

ALD Number:	42034
Client I.D.:	E87-2693-13 Mill Water Pump House West Side 7-29-88
Physical Description:	100% Moist Soil

As Received:

Total Solids @ 104°C, %	88
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.11
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02
Nickel, Ni, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 66 mls of 0.5 N acetic acid was 4.8.

WA/2r

Susan K. Scott
Laboratory Supervisor

Surman

Bierlein Environmental Services
Attn: Stan Baker

August 24, 1988

PROGRAM: CFD - SNI

Date Received: 7-29-88

ALD Number: 42035

Client I.D.: E87-2693-~~14~~ 15
Mill Water Pump House
Groundwater
7-29-88

Physical Description: 90% Brown Muddy Liquid
10% Brown Soil

As Received:

Total Solids @ 104°C, %	40
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

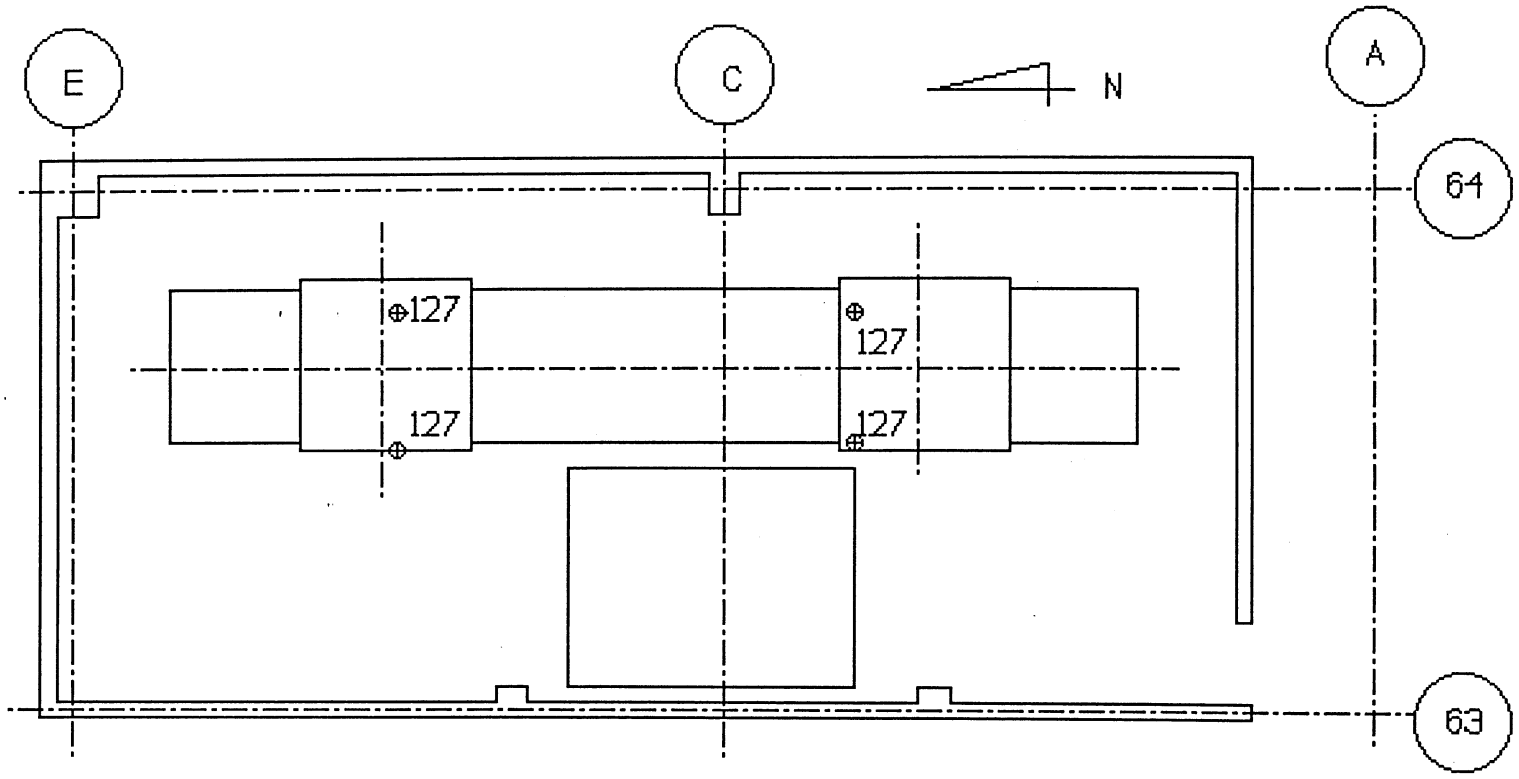
Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.06
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02
Nickel, Ni, mg/l	<0.02

102.9 grams of sample was leached into 1646 mls of deionized water and brought to a final volume of 2058 mls. 260 mls of supernatant liquid was added after leaching. Final pH after the addition of 28 mls of 0.5 N acetic acid was 4.8.

WA/3r

Susan K. Scott
Laboratory Supervisor

Appendix 10.6
Available Laboratory Analytical Data
PCB Floor Contamination



16

503 MILLWATER PUMP HOUSE TRANSF. ROOM

COMPLETE FLOOR
REMOVED

General Motors Corporation

Sample #: L8088-4 (Project)

Description : #127 #503 MILLWATER

SUBSTATION

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	182600	33000	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	ND	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	.011	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	.121	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	.01	.01	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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 (313) 477-6666 FAX (313) 477-2911

There are no appendicies corresponding to section 11

Appendix 12

Appendix 12.1
Available Laboratory Analytical Data
Former Waste Paint Shed RCRA Pad Closure

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50195
Client I.D.:	E87-2693-46 Southwest 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	84
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.31
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	0.03

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 200 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/6L

Christopher P. Jek
Laboratory Manager

USEPA FOIA REQUEST
RIN 788-94
FEBRUARY 14, 1994

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50193
Client I.D.:	E87-2693-44 South Center 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	83
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.22
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.10
Nickel, Ni, mg/l	0.06

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 180 mls of 0.5 N. acetic acid, the final pH was 5.1.

Ana/4L

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50191
Client I.D.:	E87-2693-42 Southeast 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	81
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	0.04

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 11 mls of 0.5 N. acetic acid, the final pH was 5.0.

Ana/2L

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 1994

Kim Hudson

2 0014

Burman Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313-334-4747

Samples taken after soil excavation, south of oil storage pad.

Bierlein Environmental Service
2903 S. Graham Road
Saginaw, MI 48603
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50190
Client I.D.:	E87-2693-41 Northeast 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	75
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	8

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02
Nickel, Ni, mg/l	0.09

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 20 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/1L

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14 1994

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50192
Client I.D.:	E87-2693-43 North Center 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	85
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.17
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.23
Nickel, Ni, mg/l	0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 134 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/3L

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50194
Client I.D.:	E87-2693-45 Northwest 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	79
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.46
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.07
Nickel, Ni, mg/l	0.06

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 400 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/5L

Appendix 12.2
Available Laboratory Analytical Data
Original Desulfurization Slag Unit

JBM Manager

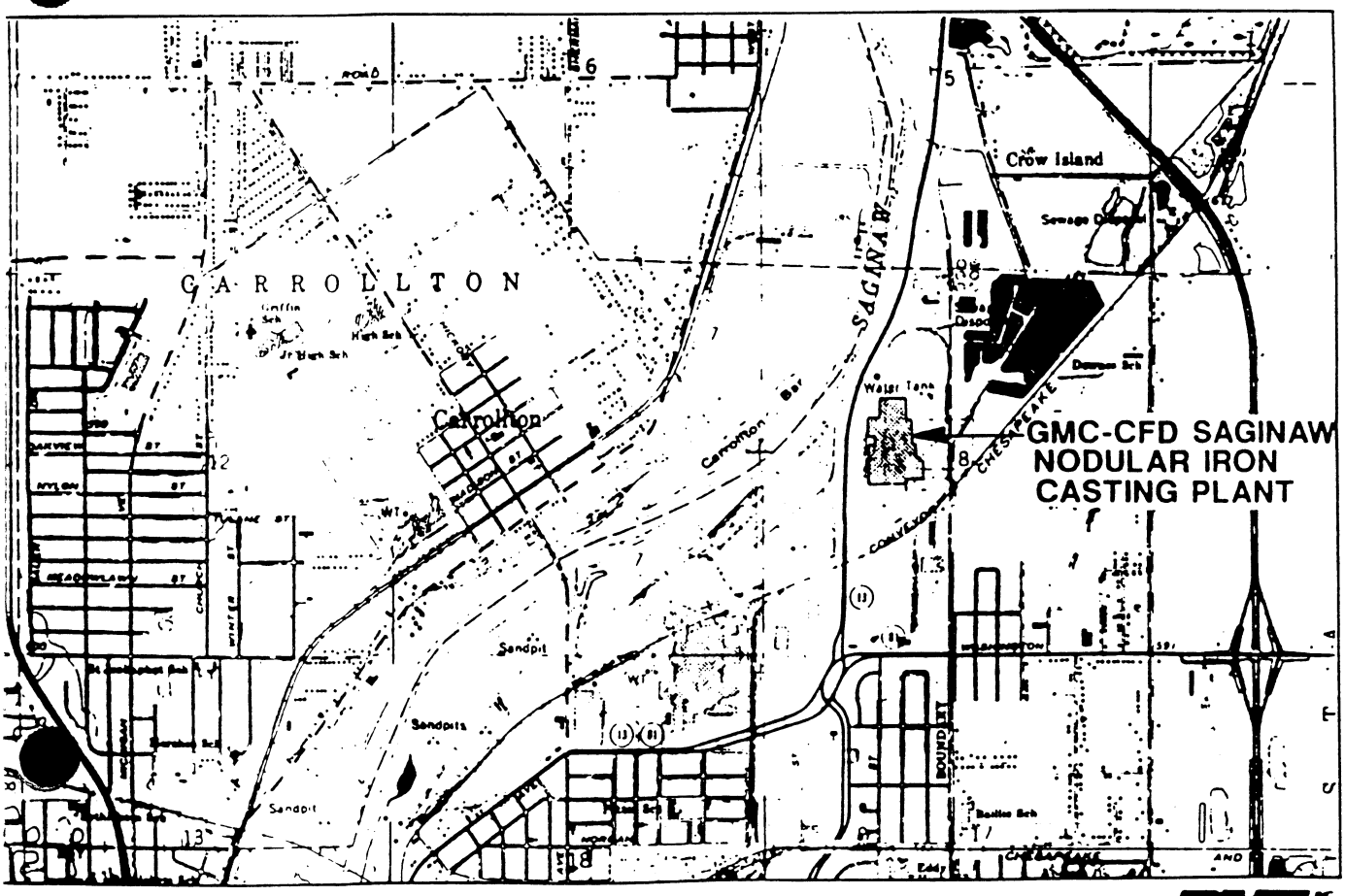
RECEIVED
APPROVED

central foundry

GM

SAGINAW NODULAR IRON CASTING PLANT
SAGINAW, MICHIGAN

DOCUMENTATION REPORT FOR RCRA CLOSURE OF AN OLD CALCIUM CARBIDE DESULFURIZATION SLAG TREATMENT UNIT



001169

RMT INC

APPENDIX C

LABORATORY DATA SHEETS FOR POST-EXCAVATION SAMPLES

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41034
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 401
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	92	%
Arsenic, Total	<3.3	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41035
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 402
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	94	%
Arsenic, Total	4.8	mg/kg dry wt.
Zinc, Total	31	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41036
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529

REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 403
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	96	%
Zinc, Total	47	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41037
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 404
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<2.0	mg/kg dry wt.
Solids, Total	63	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41038
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 405
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.6	mg/kg dry wt.
Solids, Total	77	%
Arsenic, Total	<3.9	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41039
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 406
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	95	%
Arsenic, Total	4.9	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

001280

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41040
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 407
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	84	%
Arsenic, Total	<3.6	mg/kg dry wt.
Zinc, Total	19*	mg/kg dry wt.

* Estimated value-precision QC fails due to non homogeneous sample matrix.

Alan Doughty, Ph.D., Laboratory Director

001281

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41041
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 408
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Solids, Total	96	%
Zinc, Total	28	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41042
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 409
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.4	mg/kg dry wt.
Solids, Total	92	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41043
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 410
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.4	mg/kg dry wt.
Solids, Total	88	%
Arsenic, Total	<3.4	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

001284

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41044
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 411
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.3	mg/kg dry wt.
Solids, Total	95	%
Arsenic, Total	<3.2	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

001285

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41045
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 412
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.5	mg/kg dry wt.
Solids, Total	82	%
Arsenic, Total	<3.7	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41046
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 413
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.7	mg/kg dry wt.
Solids, Total	72	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41047
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 414
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	2.1	mg/kg dry wt.
Solids, Total	82	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41048
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 415
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	2.3	mg/kg dry wt.
Solids, Total	87	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD AGINAW NODULAR IRON
SAMPLE #: 41049
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/03/89
COLLECTION DATE: 07/24/89
STATION ID: 416
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	3.8	mg/kg dry wt.
Solids, Total	79	%
Arsenic, Total	4.7	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41050
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 417
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	5.7	mg/kg dry wt.
Solids, Total	79	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.®
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41051
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 418
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.4	mg/kg dry wt.
Solids, Total	88	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41052
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 419
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.4	mg/kg dry wt.
Solids, Total	87	%

Alan Doughty, Ph.D., Laboratory Director

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41053
PROJECT #: 01125.29
WORK ORDER #: 072689-0112529
REPORT DATE: 08/02/89
COLLECTION DATE: 07/24/89
STATION ID: 420
SAMPLE COLLECTOR: MK

COMPOSITIONAL ANALYSIS REPORT

PARAMETER	RESULT	UNITS
Phenols	<1.8	mg/kg dry wt.
Solids, Total	70	%

Alan Doughty, Ph.D., Laboratory Director

Appendix 12.3
Available Laboratory Analytical Data
Replacement Desulfurization Slag Unit

Waste Charaterization Study of Foundry Process Solid Wastes January 1984

Residuals Management Technology, Inc.
1406 East Washington Avenue
Suite 124
Madison, Wisconsin 53703
(608) 255-2134

See 2/84 revised

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
SAGINAW NODULAR AND GREY IRON
CASTING PLANTS

January 1984

Dennis E. Strutz
Environmental Specialist

William A. Stephens, P.E.
Manager, Engineering

Thomas P. Kunes, P.E.
Executive Vice President

JAN 18 1984

TABLE II (CONT'D)
ASTM LEACHING TEST RESULTS ON WASTES

PARAMETER[1]	DRINKING WATER STANDARDS	NODULAR IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	PRIMARY SETTLING LAGOON #2 SLUDGE	PRIMARY SETTLING LAGOON #3 SLUDGE	COMPOSITE CORES CLASSIFIED SAND, METALS RECLAMATION RESIDUALS	CALCIUM CARBIDE DESULFURI-ZATION SLAG	COMPOSITE DESULFURI-ZATION SLAG AND LAGOON SLUDGE[6]
Arsenic	0.05[2]	0.002	0.001	0.023	0.011	0.024	1.60	0.101
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	<0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.10	<0.05
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02
Fluoride	1.4 - 2.4[2]	< 0.1	8.9	27.5	30.0	5.9	0.95	10.1
Lead	0.05[2]	< 0.005	< 0.005	< 0.010	0.011	< 0.005	<0.005	0.018
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	<0.0002	<0.0002
Selenium	0.01[2]	< 0.001	0.001	0.009	<0.001	< 0.001	0.048	0.004
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02
Zinc	5.0[3]	< 0.01	< 0.01	< 0.08	0.12	<0.01	0.14	<0.04
pH	6.5 - 8.5[3]	7.9	9.8	9.6	9.4	11.5	12.1	11.6
Phenols	3.5[4]	48.4	< 0.025	0.292	0.240	1.3	4.4	1.4

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Cyanide was not analyzed because no cyanide compounds are used in the plant, and there is no reason to believe that cyanide would be present in any of the wastes.
6. Composite sample of treated calcium carbide desulfurization slag and primary lagoon sludge was prepared in the lab on the basis of the estimated ratios of generation by weight (2.5% desulfurization slag and 97.5% sludge)

TABLE III
EP TOXICITY LEACHING TEST RESULTS ON WASTES

PARAMETER	MDNR HAZARDOUS WASTE LIMITS[1,2]	METALS RECLAMATION RESIDUALS PILE	GREY IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	PRIMARY SETTLING LAGOONS (2 & 3) SLUDGE COMPOSITE	COMPOSITE OF WASTES (1, 2, & 3)[3]	CALCIUM CARBIDE DESULFURIZATION SLAG	COMPOSITE OF SLUDGE WASTES & DESULFURIZATION SLAG (4 & 6)[4]
Arsenic	5.0	0.004	< 0.001	0.001	0.003	0.003	0.66	0.014
Barium	100.0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	1.0	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Copper	100	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Chromium (total)	5.0	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.08	< 0.05
Lead	5.0	< 0.1	< 0.1	< 0.1	0.8	< 0.1	< 0.1	0.9
Mercury	0.2	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	1.0	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	0.026	< 0.02
Silver	5.0	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	
Zinc	500.0	3.6	0.02	14.2	235	5.4	0.03	223
pH	--	5.1	5.1	5.1	5.0	5.0	12.1	4.9

1. From MDNR R 299.6315 Table 303

2. All results in mg/l

3. Composite sample of the metals reclamation residuals waste pile, the classified sand pile, and the core wastes from the Grey Iron plant were prepared in the lab on the basis of the estimated ratios of generation by weight (45% metals reclamation residuals waste, 34% classified sand, and 31% core wastes)

4. Composite sample of treated calcium carbide desulfurization slag and primary settling lagoon sludge was prepared in the lab on the basis of the estimated ratios of generation by weight (2.5% desulfurization slag and 97.5% sludge).

5. Cyanide was not analyzed because no cyanide compounds are used in the plant, and there is no reason to believe that cyanide would be present in any of the wastes.

Waste Charaterization Study of Foundry Process Solid Wastes January 1986

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14 1994

RMT INC.

NW-17 NW-6
NW-18
NW-6
NW-7
NW-19

WASTE CHARACTERIZATION STUDY OF FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

NODULAR IRON CASTING PLANT
SAGINAW MICHIGAN

JANUARY 1986

James E. Vondracek
Project Engineer

William A. Stephens, P.E.
Manager of Engineering

Thomas P. Kunes, P.E.
Executive Vice President

USEPA FOIA REQUEST
RIN 788-94

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GM-CFD Saginaw, Nodular

DATE: 10/16/84

PROJECT #: 1108-L

P.O. #: FN18480

SAMPLE #: 7549

SAMPLE DESCRIPTION: Calcium Carbide Slag From Treatment Slab, Ref. #240 (6/29/84)

EP TOXICITY TEST

WEIGHT USED: 99.6 grs.

INITIAL PH: 12.3
FINAL PH: 11.8

ACID USED: 400 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	0.031	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	0.07	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	0.033	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0 mg/l
CYANIDE	< 0.02	20.0 mg/l
ZINC	0.02	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

USEPA FOIA REQUEST
RIN: 258-94
FEBRUARY 14, 1994

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GM-CFD Saginaw, Nodular

DATE: 10/16/84

PROJECT #: 1108-L

P.O. #: FN18480

SAMPLE #: 7548

SAMPLE DESCRIPTION: Calcium Carbide Slag From Slab, Ref. #240 (6/29/84)

EP TOXICITY TEST

WEIGHT USED: 99.8 grs.

INITIAL PH: 12.2
FINAL PH: 12.3

ACID USED: 400 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	0.153	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	0.10	5.0 mg/l
LEAD	< 0.1	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	0.014	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0 mg/l
CYANIDE	< 0.02	20.0 mg/l
ZINC	< 0.01	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

SEPA FOIA REQUEST
RIN 7c8-94
FEBRUARY [illegible] 1994

2 0406

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GM-CFD Saginaw, Nodular DATE: 10/16/84

PROJECT #: 1108-L P.O. #: FN18480

SAMPLE #: 7549

SAMPLE DESCRIPTION: Calcium Carbide Slag From Treatment Slab, Ref. #240 (6/29/84)

ASTM LEACH TEST

PARAMETER	RESULT	UNIT
ARSENIC	0.029	mg/l
BARIUM	< 0.2	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM-TOTAL	< 0.05	mg/l
COPPER	< 0.02	mg/l
CYANIDE	< 0.02	mg/l
FLUORIDE	0.61	mg/l
LEAD	< 0.005	mg/l
MERCURY	< 0.0002	mg/l
PHENOLS	4.4	mg/l
SELENIUM	0.102	mg/l
SILVER	< 0.02	mg/l
ZINC	< 0.01	mg/l
pH	12.0	pH Units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

USEPA FOIA REQUEST
NO. 1003-94
FEBRUARY 14, 1994

2 0405

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GM-CFD Saginaw, Nodular DATE: 10/16/84

PROJECT #: 1108-L P.O. #: FN18480

SAMPLE #: 7548

SAMPLE DESCRIPTION: Calcium Carbide Slag From Slab, Ref. #240 (6/29/84)

ASTM LEACH TEST

PARAMETER	RESULT	UNIT
ARSENIC	0.53	mg/l
BARIUM	< 0.2	mg/l
CADMIUM	< 0.01	mg/l
CHROMIUM-TOTAL	< 0.05	mg/l
COPPER	< 0.02	mg/l
CYANIDE	< 0.02	mg/l
FLUORIDE	1.16	mg/l
LEAD	< 0.005	mg/l
MERCURY	< 0.0002	mg/l
PHENOLS	0.48	mg/l
SELENIUM	0.134	mg/l
SILVER	< 0.02	mg/l
ZINC	0.03	mg/l
pH	12.2	pH Units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

Meeting With MDNR
August 8 1989

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

MEETING WITH MDNR
AUGUST 8, 1989
DISCUSS 4 RCRA CLOSURES
AND PCB CLEANUP ACTIVITIES
GMC-CFD
SAGINAW NODULAR IRON

1125.23 gmc30813

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41033 REPORT DATE: 08/04/89
PROJECT #: 01125.29 COLLECTION DATE: 07/24/89
WORK ORDER #: 072689-0112529 STATION ID: NW CORNER BUNK.
SAMPLE COLLECTOR: MK

MICHIGAN EP TOXICITY TEST REPORT

PARAMETER	RESULT	HAZARDOUS WASTE LIMITS	UNITS
Arsenic	0.004	5.0	mg/1
Barium	0.34	100.0	mg/1
Cadmium	<0.005	1.0	mg/1
Chromium-Total	<0.01	5.0	mg/1
Copper	<0.02	100.0	mg/1
Lead	<0.1	5.0	mg/1
Mercury	0.0002	0.2	mg/1
Selenium	<0.003	1.0	mg/1
Silver	<0.01	5.0	mg/1
Zinc	0.10	500.0	mg/1
Total Weight	100.0		gm
Initial pH	11.1		pH units
Final pH	7.3		pH units
Vol. of Acid Used	400		ml

Alan Doughty, Ph.D., Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of

Appendix 12.4
Available Laboratory Analytical Data
12/6/93 N.I. Sump Sampling Analytical Results

Field Samples
12/19/88

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313/334-4747

December 19,1988

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
Attn: June Foulds

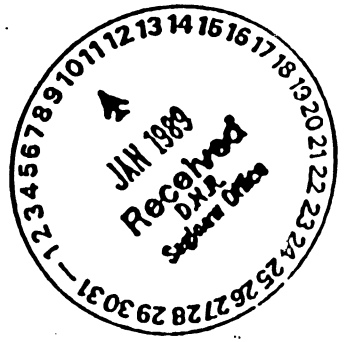
FIELD NOTES

A twenty four hour composite sampler was installed at the 5 sites on 11-7-88. Samples were collected at a timed interval of 20 minutes. Grab samples were collected after each 24 hour composite.

All samples were preserved according to EPA guidelines and were transported to the laboratory under refrigeration.

A chain of custody record has been initiated on site and retained with our field data.

Field work was performed by Burmah Technical Services personnel B. Thomas and S. Hoevemeyer.



000325

WP/10L

Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-

USEPA FOIA RECORDS
RIN

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
2100 Veterans Memorial Parkway
Saginaw, MI 48605-5073
Attn: Bill Hudson

December 19, 1988

PROGRAM: GM BULLETIN WPC-86-5

Date Received: 11-8-88

ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Asbestos, Mf/l	<0.020	<0.020	<0.020	<0.020	<0.020
Antimony, Sb, mg/l	<0.5	<0.5	<0.5	<0.5	<0.5
Arsenic, As, mg/l	<0.005	0.008	0.015	0.29	<0.005
Beryllium, Be, mg/l	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium, Cd, mg/l	<0.01	<0.01	<0.01	0.02	<0.01
Total Chromium, Cr, mg/l	<0.02	<0.02	0.02	<0.02	<0.02
Hexavalent Chromium, Cr^{+6}, mg/l	<0.05	<0.05	<0.05	<0.05	<0.05
Copper, Cu, mg/l	<0.02	<0.02	0.26	<0.02	<0.02
Total Cyanide, CN, mg/l	<0.02	<0.02	1.4	5.6	0.21
Oxidizable Cyanide, CN, mg/l	<0.02	<0.02	<0.02	3.6	<0.02
Lead, Pb, mg/l	<0.05	<0.05	0.06	<0.05	<0.05
Mercury, Hg, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Nickel, Ni, mg/l	<0.02	<0.02	0.06	0.03	<0.02
Selenium, Se, mg/l	<0.005	<0.005	<0.005	0.012	<0.005
Silver, Ag, mg/l	<0.02	<0.02	<0.02	<0.02	<0.02
Thallium, Tl, mg/l	<0.5	<0.5	<0.5	<0.5	<0.5

Bulletin/lr

11 430

Burmah
Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-4747

December 16, 1988

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

PROGRAM: GM BULLETIN WPC-86-5

Date Received:	11-8-88				
ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Oil & Grease, mg/l	3	2	3	3	3
pH (on site)	5.90	7.50	5.70	8.15	6.95
Phenolics (4AAP), mg/l	0.011	0.016	0.012	0.47	0.013
Total Phosphorus, P, mg/l	0.07	0.62	0.70	0.27	0.08
Potassium, K, mg/l	6.0	26	9.2	23	5.6
Sulfate, SO_4, mg/l	24	250	45	140	40
Sulfide, S_2, mg/l	0.04	0.06	*	0.16	<0.02
Sulfite, SO_3, (on site), mg/l	<2	<2	<2	<2	<2
Surfactants, MBAS, mg/l	0.06	0.06	0.05	0.35	0.18
Suspended Solids, mg/l	<1	<1	130	<1	1
Total Organic Carbon, mg/l	15	19	23	190	8
Temperature, °C.	12.3	11.5	13.3	10.8	8.09

*Not able to perform analysis due to sample matrix interference.

Bulletin/3r

USEPA REGION V
REC'D
SEP 14 '994

Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-

December 19, 1988

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

Date Received: 11-8-88					
ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Volatile Organic Compounds, ug/l					
Toluene	BDL	BDL	BDL	BDL	BDL
Trans-1,2-Dichloroethylene	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	BDL	BDL	BDL	BDL	BDL
Base/Neutral Compounds, ug/l					
Acenaphthene	BDL	BDL	BDL	BDL	BDL
Acenaphthylene	BDL	BDL	BDL	BDL	BDL
Anthracene	BDL	BDL	BDL	BDL	BDL
Benzidine	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	BDL	BDL	BDL	BDL	BDL
Benzo(ghi)perylene	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethoxy)methane	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroethyl)ether	BDL	BDL	BDL	BDL	BDL
Bis(2-chloroisopropyl)ether	BDL	BDL	BDL	BDL	BDL
Bis(2-ethylhexyl)phthalate	BDL	BDL	61	130	BDL

Bulletin/r

768-94
14, 1994
11 434

Burmah
Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-4747

USEPA FOIA REQUEST
RIN 768-94
FEB 14 1994

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

December 19,1988

Date Received: 11-8-88
ALD Number:
Client I.D.:

	47917 NW Core Room 11-2-88	47918 NE #5 M.L 11-8-88	47919 SE Pattern Shop 11-8-88	47920 SW Eng. Storage 11-8-88	47921 Outfall River Out 11-8-88
Base/Neutral Compounds, ug/l					
4-Bromophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL
Butylbenzyl phthalate	BDL	BDL	BDL	BDL	BDL
2-Chloronaphthalene	BDL	BDL	BDL	BDL	BDL
4-Chlorophenyl phenyl ether	BDL	BDL	BDL	BDL	BDL
Chrysene	BDL	BDL	BDL	BDL	BDL
Dibenzo(a,h)anthracene	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	BDL	BDL	BDL	BDL	BDL
3,3-Dichlorobenzidine	BDL	BDL	BDL	BDL	BDL
Diethyl phthalate	BDL	BDL	BDL	BDL	BDL
Dimethyl phthalate	BDL	BDL	BDL	BDL	BDL
Di-n-butyl phthalate	BDL	10	BDL	BDL	BDL
2,4-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL
2,6-Dinitrotoluene	BDL	BDL	BDL	BDL	BDL
Di-n-octyl phthalate	BDL	BDL	BDL	BDL	BDL
1,2-Diphenylhydrazine	BDL	BDL	BDL	BDL	BDL
Fluoranthene	BDL	BDL	BDL	BDL	BDL
Fluorene	BDL	BDL	BDL	BDL	BDL
Hexachlorobenzene	BDL	BDL	BDL	BDL	BDL
Hexachlorobutadiene	BDL	BDL	BDL	BDL	BDL
Hexachlorocyclopentadiene	BDL	BDL	BDL	BDL	BDL
Hexachloroethane	BDL	BDL	BDL	BDL	BDL

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11 435

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313/33

FREEDOM OF INFORMATION REQUEST
DOE/HQ-94-0094
FEB. 14, 1994

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

December 19,1988

Date Received: 11-8-88
ALD Number:
Client I.D.:

	47917 NW Core Room 11-2-88	47918 NE #5 M.L 11-8-88	47919 SE Pattern Shop 11-8-88	47920 SW Eng. Storag 11-8-88	47921 Outfall River Out 11-8-88
Volatile Organic Compounds, ug/l					
Acrolein	BDL	BDL	BDL	BDL	BDL
Acrylonitrile	BDL	BDL	BDL	BDL	BDL
Benzene	BDL	BDL	BDL	BDL	BDL
Bromoform	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	BDL	BDL	BDL	BDL	BDL
Chlorodibromomethane	BDL	BDL	BDL	BDL	BDL
Chloroethane	BDL	BDL	BDL	BDL	BDL
2-Chloroethylvinyl ether	BDL	BDL	BDL	BDL	BDL
Chloroform	BDL	BDL	BDL	BDL	BDL
Dichlorobromomethane	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethylene	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane	BDL	BDL	BDL	BDL	BDL
1,3-Dichloropropene	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	BDL	BDL	BDL	BDL	BDL
Methyl Bromide	BDL	BDL	BDL	BDL	BDL
Methyl Chloride	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	BDL	BDL	BDL	BDL	BDL

Bulletin/r

Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-4747

USEPA FOIA REQUEST
RIN 788-94
FEB 1[illegible]

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

December 19, 1988

PROGRAM: GM BULLETIN WPC-86-5

Date Received: 11-8-88

A.L.D Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Zinc, Zn, mg/l	0.17	0.10	0.78	0.23	0.22
Aluminum, Al, mg/l	<0.05	<0.05	1.6	0.12	0.27
Barium, Ba, mg/l	<0.05	<0.05	0.09	<0.05	<0.05
B.O.D.s, mg/l	11	12	37	110	6
Calcium, Ca, mg/l	46	0.81	51	44	39
Chemical Oxygen Demand, mg/l	14	38	140	1100	25
Chloride, mg/l	170	440	33	98	16
Residual Chlorine, (on site), mg/l	0.6	0.6	0.4	0.4	0.4
Fluoride, F, mg/l	2.0	7.9	1.5	3.5	2.2
Iron, Fe, mg/l	1.3	0.03	23	0.58	0.74
Manganese, Mn, mg/l	0.12	<0.02	0.59	0.03	0.17
Ammonia Nitrogen, N, mg/l	1.9	44	7.4	200	3.7
Nitrate Nitrogen, N, mg/l	0.86	0.75	0.22	<0.02	0.43
Nitrite Nitrogen, N, mg/l	0.04	0.15	0.04	0.16	0.11
Kjeldahl Nitrogen, N, mg/l	4.8	58	21	460	9.5

Christopher P. Jeck
Laboratory Manager

Bulletin/2r

11 431

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313/334-

December 19,1988

General Motors Corporation
Central Foundry Division
Saginaw Grey Iron Plant
Attn: June Foulds

Date Received: 11-8-88					
ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Pesticides and PCB's, ug/l					
PCB-1242	BDL	BDL	BDL	BDL	BDL
PCB-1254	BDL	BDL	BDL	BDL	BDL
PCB-1221	BDL	BDL	BDL	BDL	BDL
PCB-1232	BDL	BDL	BDL	BDL	BDL
PCB-1248	BDL	BDL	BDL	BDL	BDL
PCB-1260	BDL	BDL	BDL	BDL	BDL
PCB-1016	BDL	BDL	BDL	BDL	BDL
Toxaphene	BDL	BDL	BDL	BDL	BDL

BDL - Below Detection Level
The compounds reported were not detected at the detection level specified in the methods EPA 624, 625.

Christopher P. Jerk
Laboratory Manager

Bulletin/r

USEPA REGION V RECEIVED FEB 14 1994

11 429

Burmah
Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/334-4747

General Motors Corporation
Central Foundry Division
Saginaw Modular Iron Plant
Attn: Bill Hudson

December 19,1988

Date Received: 11-8-88

ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Pesticides and PCB's, ug/l					
Aldrin	BDL	BDL	BDL	BDL	BDL
a-BHC	BDL	BDL	BDL	BDL	BDL
b-BHC	BDL	BDL	BDL	BDL	BDL
g-BHC	BDL	BDL	BDL	BDL	BDL
d-BHC	BDL	BDL	BDL	BDL	BDL
Chlordane	BDL	BDL	BDL	BDL	BDL
4,4'-DDT	BDL	BDL	BDL	BDL	BDL
4,4'-DDE	BDL	BDL	BDL	BDL	BDL
4,4'-DDD	BDL	BDL	BDL	BDL	BDL
Dieldrin	BDL	BDL	BDL	BDL	BDL
a-Endosulfan	BDL	BDL	BDL	BDL	BDL
b-Endosulfan	BDL	BDL	BDL	BDL	BDL
Endosulfan Sulfate	BDL	BDL	BDL	BDL	BDL
Endrin	BDL	BDL	BDL	BDL	BDL
Endrin Aldehyde	BDL	BDL	BDL	BDL	BDL
Heptachlor	BDL	BDL	BDL	BDL	BDL
Heptachlor Epoxide	BDL	BDL	BDL	BDL	BDL

Bulletin/r

11 424

11 422

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

USEPA FOIA REQUEST
RIN 768-94
FEE

SEMI VOLATILES FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NE MOLD ROOM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 07-02-1991
SAMPLE NO. 67838

COMPOUND	RESULT (mg/L)	COMPOUND	RESULT (mg/L)
Acenaphthene	< 0.002	Dimethyl Phthalate	< 0.002
Acenaphthylene	< 0.001	4,6-Dinitro-2-methylphenol	< 0.050
Anthracene	< 0.001	2,4-Dinitrophenol	< 0.050
Benzidine	< 0.050	2,4-Dinitrotoluene	< 0.010
Benzo (a) Anthracene	< 0.005	2,6-Dinitrotoluene	< 0.009
Benzo (b) Fluoranthene	< 0.005	Di-n-octylphthalate	< 0.001
Benzo (k) Fluoranthene	< 0.005	1 2-Diphenylhydrazine	< 0.001
Benzo (a) Pyrene	< 0.005	Fluoranthene	< 0.001
Benzo (g,h,i) Perylene	< 0.010	Fluorene	< 0.002
Bis (2-chloroethyl) ether	< 0.004	Hexachlorobenzene	< 0.005
Bis-(2-chloroethoxy) Methane	< 0.004	Hexachlorobutadiene	< 0.005
Bis-(2-chloroisopropyl) Ether	< 0.001	Hexachloroethane	< 0.007
Bis-(2-Ethyl Hexyl) Phthalate	< 0.002	Hexachlorocyclopentadiene	< 0.005
4-Bromophenyl Phenyl Ether	< 0.007	Indeno (1,2,3-cd) Pyrene	< 0.010
Butyl Benzyl Phthalate	< 0.003	Isophorone	< 0.002
4-Chloro-3-methylphenol	< 0.004	Naphthalene	< 0.001
2-Chloronaphthalene	< 0.002	Nitrobenzene	< 0.004
2-Chlorophenol	< 0.002	2-Nitrophenol	< 0.005
4-Chlorophenyl Phenyl Ether	< 0.003	4-Nitrophenol	< 0.015
Chrysene	< 0.005	N-Nitrosodimethylamine	< 0.050
Dibenzo (a,h) Anthracene	< 0.010	N-Nitrosodiphenylamine	< 0.003
Di-n-butyl Phthalate	< 0.001	N-Nitrosodi-n-propylamine	< 0.004
1,2-Dichlorobenzene	< 0.003	Pentachlorophenol	< 0.020
1,3-Dichlorobenzene	< 0.003	Phenanthrene	< 0.001
1,4-Dichlorobenzene	< 0.003	Phenol	< 0.002
3,3'-Dichlorobenzidine	< 0.020	Pyrene	< 0.001
2,4-Dichlorophenol	< 0.003	1,2,4-Trichlorobenzene	< 0.003
Diethylphthalate	< 0.002	2,4,6-Trichlorophenol	< 0.005
2,4-Dimethylphenol	< 0.003		

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

WW ENGINEERING & SCIENCE
PRIORITY POLLUTANT ANALYSIS

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USEPA REQUEST
RIN 368-94
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TABLE 4
PESTICIDES FRACTION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SE CLEAN ROOM SUMP

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/06/91

SAMPLE NO. 67837

COMPOUND	RESULT (ug/l)	D.L.	COMPOUND	RESULT (ug/l)	D.L.
ALDRIN	*	1.0	ENDRIN ALDEHYDE	*	1.0
A-BHC	*	1.0	HEPTACHLOR	*	1.0
B-BHC	*	1.0	HEPTACHLOR EPOXIDE	*	1.0
D-BHC	*	1.0	TOXAPHENE	*	1.0
G-BHC	*	1.0	CHLORDANE	*	1.0
4-4'DDD	*	1.0	PCB-1016	*	1.0
4-4'DDE	*	1.0	PCB-1221	*	1.0
4-4'DDT	*	1.0	PCB-1232	*	1.0
DIELDRIN	*	1.0	PCB-1242	*	1.0
A-ENDOSULFAN	*	1.0	PCB-1248	*	1.0
B-ENDOSULFAN	*	1.0	PCB-1254	*	1.0
ENDOSULFAN SULFATE	*	1.0	PCB-1260	*	1.0
ENDRIN	*	1.0	METHOXYCHLOR	*	1.0

*COMPOUND NOT PRESENT AT DETECTION LIMIT

11 418

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

USEPA REGION V
KIN 7E-94
FEB. 14, 1994

VOLATILE FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SE CLEAN RM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 06-22-1991
SAMPLE NO. 67837

COMPOUND	RESULT (mg/L)
Acrolein	< 0.015
Acrylonitrile	< 0.010
Benzene	0.002
Bromodichloromethane	< 0.002
Bromoform	< 0.015
Bromomethane	< 0.010
Carbon Tetrachloride	< 0.004
Chlorobenzene	< 0.001
Chlorodibromomethane	< 0.003
Chloroethane	< 0.010
Chloroform	< 0.001
2-Chloroethyl Vinyl Ether	< 0.010
Chloromethane	< 0.010
1,1-Dichloroethane	< 0.002
1,2-Dichloroethane	< 0.002
1,1-Dichloroethylene	< 0.002
1,2-Dichloroethylene (total)	< 0.002
1,2-Dichloropropane	< 0.003
cis-1,3-Dichloropropylene	< 0.004
trans-1,3-Dichloropropylene	< 0.004
Ethylbenzene	0.001
Methylene Chloride	< 0.005
1,1,2,2-Tetrachloroethane	< 0.002
Tetrachloroethylene	< 0.002
Toluene	0.011
1,1,1-Trichloroethane	0.032
1,1,2-Trichloroethane	< 0.003
Trichloroethylene	< 0.002
Vinyl Chloride	< 0.010

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

11 416

USEPA REGION 5
WIN 708-94
FEB. 14, 1994

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

SEMI VOLATILES FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SW PATTERN SHOP SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 07-02-1991
SAMPLE NO. 67836

COMPOUND	RESULT (mg/L)	COMPOUND	RESULT (mg/L)
Acenaphthene	< 0.002	Dimethyl Phthalate	< 0.002
Acenaphthylene	< 0.001	4,6-Dinitro-2-methylphenol	< 0.050
Anthracene	< 0.001	2,4-Dinitrophenol	< 0.050
Benzidine	< 0.050	2,4-Dinitrotoluene	< 0.010
Benzo (a) Anthracene	< 0.005	2,6-Dinitrotoluene	< 0.009
Benzo (b) Fluoranthene	< 0.005	Di-n-octylphthalate	< 0.001
Benzo (k) Fluoranthene	< 0.005	1,2-Diphenylhydrazine	< 0.001
Benzo (a) Pyrene	< 0.005	Fluoranthene	< 0.001
Benzo (g,h,i) Perylene	< 0.010	Fluorene	< 0.002
Bis (2-chloroethyl) ether	< 0.004	Hexachlorobenzene	< 0.005
Bis-(2-chloroethoxy) Methane	< 0.004	Hexachlorobutadiene	< 0.005
Bis-(2-chloroisopropyl) Ether	< 0.001	Hexachloroethane	< 0.007
Bis-(2-Ethyl Hexyl) Phthalate	< 0.002	Hexachlorocyclopentadiene	< 0.005
4-Bromophenyl Phenyl Ether	< 0.007	Indeno (1,2,3-cd) Pyrene	< 0.010
Butyl Benzyl Phthalate	< 0.003	Isophorone	< 0.002
4-Chloro-3-methylphenol	< 0.004	Naphthalene	< 0.001
2-Chloronaphthalene	< 0.002	Nitrobenzene	< 0.004
2-Chlorophenol	< 0.002	2-Nitrophenol	< 0.005
4-Chlorophenyl Phenyl Ether	< 0.003	4-Nitrophenol	< 0.015
Chrysene	< 0.005	N-Nitrosodimethylamine	< 0.050
Dibenzo (a,h) Anthracene	< 0.010	N-Nitrosodiphenylamine	< 0.003
Di-n-butyl Phthalate	< 0.001	N-Nitrosodi-n-propylamine	< 0.004
1,2-Dichlorobenzene	< 0.003	Pentachlorophenol	< 0.020
1,3-Dichlorobenzene	< 0.003	Phenanthrene	< 0.001
1,4-Dichlorobenzene	< 0.003	Phenol	< 0.002
3,3'-Dichlorobenzidine	< 0.020	Pyrene	< 0.001
2,4-Dichlorophenol	< 0.003	1,2,4-Trichlorobenzene	< 0.003
Diethylphthalate	< 0.002	2,4,6-Trichlorophenol	< 0.005
2,4-Dimethylphenol	< 0.003		

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

NW ENGINEERING & SCIENCE
PRIORITY POLLUTANT ANALYSIS

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FEB 14 1994

TABLE 4
PESTICIDES FRACTION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NW CORE ROOM SUMP

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/06/91

SAMPLE NO. 67835

COMPOUND	RESULT (ug/l)	D.L.	COMPOUND	RESULT (ug/l)	D.L.
ALDRIN	*	1.0	ENDRIN ALDEHYDE	*	1.0
A-BHC	*	1.0	HEPTACHLOR	*	1.0
B-BHC	*	1.0	HEPTACHLOR EPOXIDE	*	1.0
D-BHC	*	1.0	TOXAPHENE	*	1.0
G-BHC	*	1.0	CHLORDANE	*	1.0
4-4'DDD	*	1.0	PCB-1016	*	1.0
4-4'DDE	*	1.0	PCB-1221	*	1.0
4-4'DDT	*	1.0	PCB-1232	*	1.0
DIELDRIN	*	1.0	PCB-1242	*	1.0
A-ENDOSULFAN	*	1.0	PCB-1248	*	1.0
B-ENDOSULFAN	*	1.0	PCB-1254	*	1.0
ENDOSULFAN SULFATE	*	1.0	PCB-1260	*	1.0
ENDRIN	*	1.0	METHOXYCHLOR	*	1.0

*COMPOUND NOT PRESENT AT DETECTION LIMIT

USEPA FOIA REQUEST
RIN 768-94
FEB. 14, 1994

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

11 412

VOLATILE FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NW CORE ROOM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 06-26-1991
SAMPLE NO. 67835

COMPOUND	RESULT (mg/L)
Acrolein	< 0.015
Acrylonitrile	< 0.010
Benzene	< 0.001
Bromodichloromethane	< 0.002
Bromoform	< 0.015
Bromomethane	< 0.010
Carbon Tetrachloride	< 0.004
Chlorobenzene	< 0.001
Chlorodibromomethane	< 0.003
Chloroethane	< 0.010
Chloroform	< 0.001
2-Chloroethyl Vinyl Ether	< 0.010
Chloromethane	< 0.010
1,1-Dichloroethane	< 0.002
1,2-Dichloroethane	< 0.002
1,1-Dichloroethylene	< 0.002
1,2-Dichloroethylene (total)	< 0.002
1,2-Dichloropropane	< 0.003
cis-1,3-Dichloropropylene	< 0.004
trans-1,3-Dichloropropylene	< 0.004
Ethylbenzene	< 0.001
Methylene Chloride	< 0.005
1,1,2,2-Tetrachloroethane	< 0.002
Tetrachloroethylene	< 0.002
Toluene	< 0.001
1,1,1-Trichloroethane	< 0.002
1,1,2-Trichloroethane	< 0.003
Trichloroethylene	0.005
Vinyl Chloride	< 0.010

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

USEPA FOIA REQUEST
RIN 768-94
FEB. 14, 1994

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

11 410

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION: CFD-SAGINAW
SAMPLED BY: JIM WOOSTER
DESCRIPTION: GM BULLETIN

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 06/24/91
SCHEDULED COMPLETION: 07/09/91
ANALYST: CMB,KLV,MSD,AMF
QUALITY CONTROL REVIEW BY: BJD
WORKSHEET NO: 23

	NW CORE ROOM SUMP	SW PATTERN SHOP SUMP	SE CLEAN ROOM SUMP	NE MOLD ROOM SUMP	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	67835	67836	67837	67838		
NITROGEN, (TKN)	6.1	8.6	94	3.0	1.0	mg/l
GREASE&OIL/FREON-EXT	2.4	100	1.5	5.5	1.0	mg/l
pH (FIELD)	7.15	7.00	7.00	7.12	---	std. units
PHENOL, TOTAL	<0.05	<0.05	<0.05	<0.05	0.05	mg/l
PHOSPHORUS,TOTAL	0.12	0.08	0.10	0.14	0.02	mg/l
SULFATE	108	35	187	76	5.0	mg/l
SULFIDE, TOTAL	<1.0	<1.0	<1.0	<1.0	1.0	mg/l
SULFITE (FIELD)	0.64	0.64	<0.64	0.64	0.64	mg/l
MBAS-SURFACTANTS	71	38	109	155	25	ug/l
RESIDUE,SUSPENDED	<1	35	10	10	1	mg/l
TEMPERATURE (FIELD)	56	58	55	58	---	deg. F

pH METER MALFUNCTIONED IN FIELD, THEREFORE, LITMUS PAPER WAS USED. THE RESULTS MUST BE CONSIDERED ESTIMATED.

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

11 408

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION: CFD-SAGINAW
SAMPLED BY: JIM WOOSTER
DESCRIPTION: GM BULLETIN

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/10/91
SCHEDULED COMPLETION: 07/09/91
ANALYST: KMV,JW,DJ,SAT,RR
QUALITY CONTROL REVIEW BY: CS
WORKSHEET NO: 21

	NW CORE ROOM SUMP	SW PATTERN SHOP SUMP	SE CLEAN ROOM SUMP	NE MOLD ROOM SUMP	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	67835	67836	67837	67838		
IRON,TOTAL	3.1*	4.9	1.5	0.87	0.01	mg/l
LEAD,TOTAL	<0.05	<0.05	<0.05	<0.05	0.05	mg/l
MANGANESE,TOTAL	0.24	0.39	0.06	0.07	0.01	mg/l
MERCURY,TOTAL	<0.2	<0.2	<0.2	<0.2	0.2	ug/l
NICKEL,TOTAL	<0.01	0.07	<0.01	<0.01	0.01	mg/l
POTASSIUM, TOTAL	15	17	17	13	0.50	mg/l
SELENIUM,TOTAL	<2.0	<2.0	<2.0	<2.0	2.0	ug/l
SILVER,TOTAL	<0.01	<0.01	<0.01	<0.01	0.01	mg/l
THALLIUM,TOTAL	<0.10	<0.10	<0.10	<0.10	0.10	mg/l
ZINC,TOTAL	0.25	0.08	0.35	0.48	0.02	mg/l

*QUALITY CONTROL PERFORMANCE CRITERIA NOT MET FOR THIS PARAMETER, ALL OTHER PARAMETERS FELL WITHIN ACCEPTABLE QUALITY CONTROL LIMITS.

Sump Water Quality Investigation
02/17/93

The Dragun Corporation

30445 Northwestern Hwy. • Suite 260 • Farmington Hills, MI 48334 • 313-932-0228 • FAX 313-932-0618

February 17, 1993

Mr. G. Keith West
GM Powertrain
MC 2B55
895 Joslyn
Pontiac, Michigan 48340-2920

SUBJECT: Sump Water Quality Investigation
General Motors Corporation
Former Nodular Iron Plant
Saginaw, Michigan
Project #1040

Dear Mr. West:

In response to your Notice Letter (N.L.-10-91-02-001S) dated October 3, 1991, General Motors Powertrain (GMPT) Group retained The Dragun Corporation to perform an investigation at the former Nodular Iron (NI) Plant. The purpose of this investigation was to assess chemicals in water which is discharged from the four sumps present in the basement of the NI Plant.

This letter presents the details of The Dragun Corporation's investigation and is divided into two sections. The first section describes the details of the sump water investigation. The second section presents the results of this investigation, and our assessment of these results.

Details of the Sump Water Investigation

The Dragun Corporation collected individual water samples from the four sumps (NW, NE, SW, SE) at the NI Plant on May 1, 1992. A duplicate set of water samples was collected from the NW Sump. The sample location for these duplicate samples was denoted as the NWD Sump. All sump water samples were submitted to two independent analytical laboratories for testing. One set of water samples was submitted to the National Environmental Testing, Inc. (NET) laboratory located in Auburn Hills, Michigan. The other set of water samples was submitted to the WW Engineering and Science, Inc. (WW) laboratory located in Grand Rapids, Michigan.

Table 1. Laboratory Data for Sump Samples
GMPT Castings - NI Plant
Saginaw, Michigan

USEPA METHOD 8010 SCAN	NE SUMP		NW SUMP		NWD SUMP		SE SUMP		SW SUMP	
	NET	WW	NET	WW	NET	WW	NET	WW	NET	WW
Bromodichloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0	<1.0
Bromomethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl Vinyl Ether	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromochloromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	**9.5**	**8.0**	**2.2**	**2.0**	<1.0	**2.0**	<1.0	<1.0	**4.7**	**4.0**
1,2-Dichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,1-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	**1.0**	<1.0	**2.0**	<1.0	<1.0	**4.8**	**3.0**
1,1,2-trichloroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene	<1.0	<1.0	**13**	**10**	**15**	**12**	<1.0	<1.0	**3.8**	**3.0**
Trichlorofluoromethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

All concentrations are reported as ug/L.
NA = not analyzed.

Table 1. Laboratory Data for Sump Samples (Continued)
GMPT Castings - NI Plant
Saginaw, Michigan

USEPA METHOD 8270 B/N/A SCAN	NE SUMP		NW SUMP		NWD SUMP		SE SUMP		SW SUMP	
	NET	WW	NET	WW	NET	WW	NET	WW	NET	WW
Acenapthene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Acenapthylene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Aniline	<20.	NA	<20.	NA	<20.	NA	<20.	NA	<20.	NA
Anthracene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzidine	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA
Benzo (a) Anthracene	<5	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzo (a) Pyrene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzo (b) Fluoranthene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzo (k) Fluoranthene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzo (g,h,I,) Perylene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Benzoic Acid	NA	<25	NA	<25	NA	<25	NA	<25	NA	<25
Benzyl Alcohol	NA	<12.5	NA	<12.5	NA	<12.5	NA	<12.5	NA	<12.5
Bis (2-Chloroethoxy) Methane	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Bis (2-Chloroethyl) Ether	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
Bis (2-Chloroisopropyl) Ether	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Bis (2-ethylhexyl) Phthalate	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
4-Bromophenyl Phenylether	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
Butyl Benzyl Phthalate	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
4-Chloro-3-Methylphenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
4-Chloroaniline	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5
2-Chloronaphthalene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2-Chlorophenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
4-Chlorophenylphenyl Ether	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
Chrysene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Di-n-Butyl Phthalate	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Di-n-Octylphthalate	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Dibenzo (a,h) Anthracene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Dibenzofuran	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25
1,2-Dichlorobenzene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
1,3-Dichlorobenzene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
1,4-Dichlorobenzene	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
3,3-Dichlorobenzidine	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2,4-Dichlorophenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Diethylphthalate	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Dimethylphthalate	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25

All concentrations are reported as ug/L.
NA = not analyzed.

Table 1. Laboratory Data for Sump Samples (Continued)
GMPT Castings - NI Plant
Saginaw, Michigan

USEPA METHOD 8270 B/N/A SCAN	NE SUMP		NW SUMP		NWD SUMP		SE SUMP		SW SUMP	
	NET	WW	NET	WW	NET	WW	NET	WW	NET	WW
2,4-Dimethylphenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
4,6-Dinitro-2-Methylphenol	NA	<12.5	NA	<12.5	NA	<12.5	NA	<12.5	NA	<12.5
2,4-Dinitrophenol	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5
2,4-Dinitrotoluene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2,6-Dinitrotoluene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
1,2-Diphenylhydrazine	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA
Fluroanthene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Fluorene	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
Hexachlorobenzene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Hexachloro-1,3-butadiene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Hexachlorocyclopentadiene	<5.0	<12.5	<5.0	<12.5	<5.0	<12.5	<5.0	<12.5	<5.0	<12.5
Hexachloroethane	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Indeno (1,2,3-cd) Pyrene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Isophorone	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2-Methyl-4,6-Dinitrophenol	<20.	NA	<20.	NA	<20.	NA	<20.	NA	<20.	NA
2-Methylnaphthalene	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25
2-Methylphenol	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25
4-Methylphenol	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25
N-Nitrosodimethylamine	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA	<5.0	NA
N-Nitrosodi-n-Propylamine	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
N-Nitrosodiphenylamine	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
Naphthalene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2-Nitroaniline	<20.	<1.25	<20.	<1.25	<20.	<1.25	<20.	<1.25	<20.	<1.25
3-Nitroaniline	<20.	<2.5	<20.	<2.5	<20.	<2.5	<20.	<2.5	<20.	<2.5
4-Nitroaniline	<20.	<1.25	<20.	<1.25	<20.	<1.25	<20.	<1.25	<20.	<1.25
Nitrobenzene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
2-Nitrophenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
4-Nitrophenol	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5
Pentachlorophenol	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5	<20.	<12.5
Phenanthrene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Phenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
Pyrene	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
1,2,4-Trichlorobenzene	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5	<5.0	<2.5
2,4,5-Trichlorophenol	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25	NA	<1.25
2,4,6-Trichlorophenol	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25

All concentrations are reported as ug/L.
NA = not analyzed.

Table 1. Laboratory Data for Sump Samples (Continued)
GMPT Castings - NI Plant
Saginaw, Michigan

USEPA METHOD 8080 SCAN	NE SUMP		NW SUMP		NWD SUMP		SE SUMP		SW SUMP	
	NET	WW	NET	WW	NET	WW	NET	WW	NET	WW
PCB-1016	<1.0	<5.0	<0.3	<0.20	<0.3	<0.5	<0.050	<3.5	<0.050	<2.0
PCB-1221	<1.0	<5.0	<0.3	<0.50	<0.3	<1.0	<0.050	<3.5	<0.050	<1.0
PCB-1232	<1.0	<10	<0.3	<0.50	<0.3	<1.0	<0.050	<10.5	<0.050	<4.0
PCB-1242	<1.0	<4.0	<0.3	<0.40	<0.3	<0.5	<0.050	<10.5	<0.050	<2.0
PCB-1248	<1.0	<4.0	<0.3	<0.40	<0.3	<1.0	<0.050	<3.5	<0.050	<2.0
PCB-1254	<1.0	<4.0	<0.3	<0.40	<0.3	<0.5	<0.050	<3.5	<0.050	<1.0
PCB-1260	<1.0	<2.0	<0.3	<0.20	<0.3	<0.25	<0.050	<1.8	<0.050	<1.0

All concentrations are reported as ug/L.
NA = not analyzed.

Table 2. Laboratory Data for Sump Samples
GMPT Castings - NI Plant
Saginaw, Michigan

Conventional "Chemicals of Concern"		NE SUMP NET	NE SUMP WW	NW SUMP NET	NW SUMP WW	NWD SUMP NET	NWD SUMP WW	SE SUMP NET	SE SUMP WW	SW SUMP NET	SW SUMP WW
Arsenic	(ug/l)	7	9.3	2	2.8	1	3	64	80	5	5
Iron	(mg/l)	0.03	0.03	1.4	1.4	1.4	1.4	0.19	0.17	0.28	0.26
TSS	(mg/l)	<4	2	5	6	8	3	13	7	7	4
TDS	(mg/l)	650	635	760	750	770	746	850	850	490	501
Chlorides	(mg/l)	130	118	180	158	170	162	330	294	130	118
COD	(mg/l)	58	41	47	40	45	41	170	165	63	60
TOC	(mg/l)	10	14	22	17	16	16	28	30	43	23
TKN	(mg/l)	7.3	8.3	6.2	6.1	4.7	5.7	90	93	13	14
Phenolics	(ug/l)	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25	<5.0	<1.25
O & G	(mg/l)	<5	1.2	<5	1.0	<5	1.0	<5	<1.0	<5	<1.0
D.O. (lab measured)	(mg/l)	13	1.7	7	1.7	4	1.7	3	NA	10	2.1
Ammonia-Nitrogen	(mg/l)	5.5	6.1	3.8	3	3.8	3.1	46	42	9.8	7.5

NOTE: NA - Not analyzed.

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples

Submittal Number: 30249- 1
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	N.E. Mold-Line	N.W. Core-Room	S.E. Cleaning Room	Detection Limit	Units
WWES Sample No:	15020	15021	15022		
BOD, (5-Day)	2.7	13	11	1.0	mg/l
Chemical Oxygen Demand	137	30	165	5.0	mg/l
Residue, Suspended	26	5	6	1	mg/l
Residue, Dissolved	428	600	612	1	mg/l
Nitrogen, Ammonia	6.1	3.6	32	0.05	mg/l
Phosphorus, Total	0.08	0.10	0.06	0.02	mg/l
Oil & Grease	<1.0	<1.0	<1.0	1.0	mg/l
Temperature, Celsius	2.8	9.1		0.1	deg. C
pH (Field)	7.19	7.40		1.00	pH Uni
Arsenic, Total	<0.10	<0.10	<0.10	0.10	mg/l
Cadmium, Total	<0.01	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	<0.05	0.05	mg/l
Cyanide, Total	<0.05	<0.05	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	<0.05	0.05	mg/l
Mercury, Total	<0.2	0.4	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	<0.01	0.01	mg/l
Selenium, Total	<2.0	<2.0	<2.0	2.0	ug/l
Zinc, Total	0.67	0.09	0.31	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed	Enclosed		
USEPA-608 Scan					
Copper, Total	0.02	<0.01	0.01	0.01	mg/l
Sampled by:	J. Wooster	J. Wooster	J. Wooster		
Date Sampled:	03/11/92	03/11/92	03/11/92		
Time Sampled:	13:15	12:50	14:10		
Date Received:	03/12/92	03/12/92	03/12/92		
Time Received:	07:30	07:30	07:30		

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples

Submittal Number: 30249- 1
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	S.W. Pattern Shop	N.E. 6 Mold Line	Detection Limit	Units
WWES Sample No:	15023	15024		
BOD, (5-Day)	11	11	1.0	mg/l
Chemical Oxygen Demand	22	52	5.0	mg/l
Residue, Suspended	44	12	1	mg/l
Residue, Dissolved	1370	635	1	mg/l
Nitrogen, Ammonia	4.6	9.9	0.05	mg/l
Phosphorus, Total	0.06	0.79	0.02	mg/l
il & Grease	<1.0	<1.0	1.0	mg/l
Temperature, Celsius	17.8	2.5	0.1	deg
pH (Field)	7.30	10.52	1.00	pH
Arsenic, Total	<0.10	<0.10	0.10	mg/l
Cadmium, Total	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	0.05	mg/l
Cyanide, Total	<0.05	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	0.05	mg/l
Mercury, Total	<0.2	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	0.01	mg/l
Selenium, Total	<2.0	<2.0	2.0	ug/l
Zinc, Total	<0.02	<0.02	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed		
USEPA-608 Scan				
Copper, Total	0.01	<0.01	0.01	mg/l
Sampled by:	J. Wooster	J. Wooster		
Date Sampled:	03/11/92	03/11/92		
Time Sampled:	14:30	13:40		
Date Received:	03/12/92	03/12/92		
Time Received:	07:30	07:30		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples
Sample: N.E.
Mold-Line

Submittal Number 30249- 1
Date Sampled: 03/11/92 Time: 13:15
Date Received: 03/12/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15020

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples
Sample: N.W.
Core-Room

Submittal Number 30249- 1
Date Sampled: 03/11/92 Time: 12:5[illegible]
Date Received: 03/12/92 Time: 07:3[illegible]
Analysis Date: 03/23/92
Sample No: 15021

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

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Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples
Sample: S.E. Cleaning Room

Submittal Number 30249- 1
Date Sampled: 03/11/92 Time: 14:10
Date Received: 03/12/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15022

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

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Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples
Sample: S.W. Pattern Shop

Submittal Number 30249- 1
Date Sampled: 03/11/92 Time: 14:30
Date Received: 03/12/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15023

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

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Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 11, 1992 Samples
Sample: N.E.
6 Mold
Line

Submittal Number : 30249- 1
Date Sampled: 03/11/92 Time: 13:4
Date Received: 03/12/92 Time: 07:3
Analysis Date: 03/23/92
Sample No: 15024

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<2.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples

Submittal Number: 30249- 2
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	N.W. Core Room	N.E. Mold Line	N.E. 6 Mold Line	Detection Limit	Units
WWES Sample No:	15098	15099	15100		
BOD, (5-Day)	9.4	2.1	12	1.0	mg/l
Chemical Oxygen Demand	31	39	64	5.0	mg/l
Residue, Suspended	6	18	5	1	mg/l
Residue, Dissolved	593	424	596	1	mg/l
Nitrogen, Ammonia	3.4	6.0	10	0.05	mg/l
Phosphorus, Total	0.06	0.08	0.16	0.02	mg/l
Oil & Grease	<1.0	1.1	<1.0	1.0	mg/l
Temperature, Celsius	9.2	3.8	2.4	0.1	deg
pH (Field)	7.54	9.86	11.06	1.00	pH
Arsenic, Total	<0.10	<0.10	<0.10	0.10	mg/l
Cadmium, Total	<0.01	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	<0.05	0.05	mg/l
Cyanide, Total	<0.05	<0.05	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	<0.05	0.05	mg/l
Mercury, Total	<0.2	<0.2	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	<0.01	0.01	mg/l
Selenium, Total	<2.0	<2.0	<2.0	2.0	ug/l
Zinc, Total	0.06	0.37	<0.02	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed	Enclosed		
USEPA-608 Scan					
Copper, Total	0.02	0.01	0.01	0.01	mg/l
Sampled by:	J. Wooster	J. Wooster	J. Wooster		
Date Sampled:	03/12/92	03/12/92	03/12/92		
Time Sampled:	08:40	09:10	09:40		
Date Received:	03/13/92	03/13/92	03/13/92		
Time Received:	08:00	08:00	08:00		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples
Sample: N.W. Core
Room

Submittal Number 30249- 2
Date Sampled: 03/12/92 Time: 08:40
Date Received: 03/13/92 Time: 08:00
Analysis Date: 03/23/92
Sample No: 15098

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples
Sample: N.E. Mold Line

Submittal Number 30249- 2
Date Sampled: 03/12/92 Time: 09:10
Date Received: 03/13/92 Time: 08:00
Analysis Date: 03/23/92
Sample No: 15099

Parameter	Result ug/l
PCB-1016	<1.0
PCB-1221	<1.0
PCB-1232	<1.0
PCB-1242	<1.0
PCB-1248	<1.0
PCB-1254	<1.0
PCB-1260	<1.0

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples
Sample: N.E. 6
Mold Line

Submittal Number 30249- 2
Date Sampled: 03/12/92 Time: 09:40
Date Received: 03/13/92 Time: 08:00
Analysis Date: 03/23/92
Sample No: 15100

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples

Submittal Number: 30249- 2
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	S.E. Cleaning Room	S.W. Pattern Shop	Detection Limit	Units
WWES Sample No:	15101	15102		
BOD, (5-Day)	14	11	1.0	mg/l
Chemical Oxygen Demand	166	20	5.0	mg/l
Residue, Suspended	4	29	1	mg/l
Residue, Dissolved	798	1320	1	mg/l
Nitrogen, Ammonia	38	4.6	0.05	mg/l
Phosphorus, Total	0.05	0.03	0.02	mg/l
il & Grease	<1.0	1.3	1.0	mg/l
Temperature, Celsius	3.0	23.8	0.1	de
pH (Field)		8.01	1.00	pH
Arsenic, Total	<0.20	<0.10	Varies	mg/l
Cadmium, Total	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	0.05	mg/l
Cyanide, Total	0.13	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	0.05	mg/l
Mercury, Total	0.3	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	0.01	mg/l
Selenium, Total	<2.0	<2.0	2.0	ug/l
Zinc, Total	0.18	<0.02	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed		
USEPA-608 Scan				
Copper, Total	0.02	0.01	0.01	mg/l
Sampled by:	J. Wooster	J. Wooster		
Date Sampled:	03/12/92	03/12/92		
Time Sampled:	10:05	10:40		
Date Received:	03/13/92	03/13/92		
Time Received:	08:00	08:00		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples
Sample: S.E. Cleaning Room

Submittal Number 30249- 2
Date Sampled: 03/12/92 Time: 10:0
Date Received: 03/13/92 Time: 08:0
Analysis Date: 03/23/92
Sample No: 15101

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 12, 1992 Samples
Sample: S.W. Pattern Shop

Submittal Number 30249- 2
Date Sampled: 03/12/92 Time: 10:40
Date Received: 03/13/92 Time: 08:00
Analysis Date: 03/23/92
Sample No: 15102

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples

Submittal Number: 30249- 3
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	NW-Core Room	NE-Mold Line	NE-6 Mold Line	Detection Limit	Units
WWES Sample No:	15270	15271	15272		
BOD, (5-Day)	8.9	2.3	11	1.0	mg/l
Chemical Oxygen Demand	66	44	55	5.0	mg/l
Residue, Suspended	11	9	11	1	mg/l
Residue, Dissolved	655	603	650	1	mg/l
Nitrogen, Ammonia	3.6	7.9	9.4	0.05	mg/l
Phosphorus, Total	0.05	0.10	0.74	0.02	mg/l
Oil & Grease	<1.0	<1.0	<1.0	1.0	mg/l
Temperature, Celsius	9.8	3.7	2.0	0.1	deg. C
pH (Field)	7.45	10.15	11.12	1.00	pH Uni
Arsenic, Total	<0.10	<0.10	<0.10	0.10	mg/l
Cadmium, Total	<0.01	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	<0.05	0.05	mg/l
Cyanide, Total	<0.05	<0.05	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	<0.05	0.05	mg/l
Mercury, Total	<0.2	0.2	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	<0.01	0.01	mg/l
Selenium, Total	<2.0	<2.0	<2.0	2.0	ug/l
Zinc, Total	0.02	0.25	<0.02	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed	Enclosed		
USEPA-608 Scan					
Copper, Total	<0.01	0.02	<0.01	0.01	mg/l
Sampled by:	J.Wooster	J.Wooster	J.Wooster		
Date Sampled:	03/13/92	03/13/92	03/13/92		
Time Sampled:	09:30	10:00	10:25		
Date Received:	03/16/92	03/16/92	03/16/92		
Time Received:	07:30	07:30	07:30		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples
Sample: NW-Core
Room

Submittal Number 30249- 3
Date Sampled: 03/13/92 Time: 09:30
Date Received: 03/16/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15270

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples
Sample: NE-Mold Line

Submittal Number 30249- 3
Date Sampled: 03/13/92 Time: 10:00
Date Received: 03/16/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15271

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<2.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples
Sample: NE-6 Mold Line

Submittal Number 30249- 3
Date Sampled: 03/13/92 Time: 10:25
Date Received: 03/16/92 Time: 07:30
Analysis Date: 03/23/92
Sample No: 15272

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<4.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

ANALYTICAL REPORT

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples

Submittal Number: 30249- 3
Location:
Contact: Ron W. Hamilton
Phone: (616) 942-9600

	SE-Cleaning Room	SW-Pattern Shop	Detection Limit	Units
WWES Sample No:	15273	15274		
BOD, (5-Day)	11	10	1.0	mg/l
Chemical Oxygen Demand	105	19	5.0	mg/l
Residue, Suspended	4	42	1	mg/l
Residue, Dissolved	1090	1360	1	mg/l
Nitrogen, Ammonia	51	4.2	0.05	mg/l
Phosphorus, Total	0.13	0.05	0.02	mg/l
Oil & Grease	<1.0	<1.0	1.0	mg/l
Temperature, Celsius	3.0	14.6	0.1	deg. C
pH (Field)	7.0	7.46	1.00	pH Unit
Arsenic, Total	<0.10	<0.10	0.10	mg/l
Cadmium, Total	<0.01	<0.01	0.01	mg/l
Chromium, Total	<0.05	<0.05	0.05	mg/l
Cyanide, Total	0.12	<0.05	0.05	mg/l
Lead, Total	<0.05	<0.05	0.05	mg/l
Mercury, Total	<0.2	<0.2	0.2	ug/l
Nickel, Total	<0.01	<0.01	0.01	mg/l
Selenium, Total	2.6	<2.0	2.0	ug/l
Zinc, Total	0.12	<0.02	0.02	mg/l
Molybdenum, Total	<0.10	<0.10	0.10	mg/l
PCB Scan	Enclosed	Enclosed		
USEPA-608 Scan				
Copper, Total	0.01	<0.01	0.01	mg/l
Sampled by:	J.Wooster	J.Wooster		
Date Sampled:	03/13/92	03/13/92		
Time Sampled:	10:50	11:20		
Date Received:	03/16/92	03/16/92		
Time Received:	07:30	07:30		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples
Sample: SE-
Cleaning
Room

Submittal Number . 30249- 3
Date Sampled: 03/13/92 Time: 10:5
Date Received: 03/16/92 Time: 07:3
Analysis Date: 03/24/92
Sample No: 15273

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<2.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

WW Engineering & Science, Inc.
Environmental Laboratory Division

PCB SCAN
USEPA-608 SCAN

GM Central Foundries
Proj: Discharge Characterization

Subm: March 13, 1992 Samples
Sample: SW-Pattern Shop

Submittal Number 30249- 3
Date Sampled: 03/13/92 Time: 11:20
Date Received: 03/16/92 Time: 07:30
Analysis Date: 03/24/92
Sample No: 15274

Parameter	Result ug/l	Parameter	Result ug/l
PCB-1016	<1.0	PCB-1248	<1.0
PCB-1221	<1.0	PCB-1254	<1.0
PCB-1232	<1.0	PCB-1260	<1.0
PCB-1242	<1.0		

FREEDOM OF INFORMATION ACT REQUEST

AUG 08 1991

ENVIRONMENTAL LABORATORY DIVISION

FEB. 14, 1994

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

11 407

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION: CFD-SAGINAW - MODULAR TROF
SAMPLED BY: JIM WOOSTER
DESCRIPTION: GM BULLETIN

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/10/91
SCHEDULED COMPLETION: 07/09/91
ANALYST: GEP,DJ,KMV,RR,GR
QUALITY CONTROL REVIEW BY: CS
WORKSHEET NO: 20

	NW CORE ROOM SUMP	SW PATTERN SHOP SUMP	SE CLEAN ROOM SUMP	NE MOLD ROOM SUMP	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	67835	67836	67837	67838		
ALUMINUM,TOTAL	0.35	<0.20	0.42	0.29	0.20	mg/l
ANTIMONY,TOTAL	<2.0	<2.0	5.9	<2.0	2.0	ug/l
ARSENIC,TOTAL	<1.0	<1.0	<1.0	<1.0	1.0	ug/l
BARIUM,TOTAL	0.07	0.08	0.02	<0.02	0.02	mg/l
BERYLLIUM,TOTAL	<0.01	<0.01	<0.01	<0.01	0.01	mg/l
CADMIUM,TOTAL	0.01	<0.01	<0.01	<0.01	0.01	mg/l
CALCIUM, TOTAL	86	85	22	27	0.50	mg/l
CHROMIUM,TOTAL	<0.05	<0.05	<0.05	<0.05	0.05	mg/l
CHROMIUM,HEXAVALENT	<0.05	<0.05	<2.0*	<0.1*	0.05	mg/l
COPPER,TOTAL	<0.02	<0.02	<0.02	<0.02	0.02	mg/l
TIME SAMPLED:	11:00 AM	1:36 PM	12:50 PM	12:00 PM		

*DETECTION LIMIT CHANGED DUE TO MATRIX INTERFERENCE.

USEPA FOIA REQUEST
FEB. 14, 1994

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

11 409

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION: CFD-SAGINAW
SAMPLED BY: JIM WOOSTER
DESCRIPTION: GM BULLETIN

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/02/91
SCHEDULED COMPLETION: 07/09/91
ANALYST: GEP,LAB,AMF,BDH
QUALITY CONTROL REVIEW BY: BJD
WORKSHEET NO: 22

	NW CORE ROOM SUMP	SW PATTERN SHOP SUMP	SE CLEAN ROOM SUMP	NE MOLD ROOM SUMP	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	67835	67836	67837	67838		
BOD-5	4.1	32	40	4.4	1.0	mg/l
COD	34	44	113	55	5.0	mg/l
CHLORIDE	176	183	37	35	1.0	mg/l
CHLORINE, RESIDUAL	<0.2	<0.2	<0.2	<0.2	0.2	mg/l
CYANIDE, TOTAL	<0.05	<0.05	<0.05	<0.05	0.05	mg/l
CYANIDE,AMENABLE	*	*	*	*	---	----
FLUORIDE	5.1	2.7	4.9	2.7	0.1	mg/l
NITROGEN, AMMONIA	4.2	7.1	52	1.6	0.05	mg/l
NITROGEN, NITRATE	3.7	0.47	1.2	4.0	0.05	mg/l
NITROGEN, NITRITE	0.13	0.11	0.64	0.14	0.05	mg/l

*TOTAL CYANIDE <0.05 mg/l; THEREFORE,
AMENABLE CYANIDE <0.05 mg/l

USEPA FOIA REQUEST
FEB. 18, 1992

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

11 411

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION: CFD-SAGINAW
SAMPLED BY: JIM WOOSTER
DESCRIPTION: GM BULLETIN

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/11/91
SCHEDULED COMPLETION: 07/09/91
ANALYST: PT,JRS,CH,SB,KVH
QUALITY CONTROL REVIEW BY: RW,WH
WORKSHEET NO: 24

	NW CORE ROOM SUMP	SW PATTERN SHOP SUMP	SE CLEAN ROOM SUMP	NE MOLD ROOM SUMP	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	67835	67836	67837	67838		
GC/MS 624	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED		
GC/MS 625	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED		
GC 608	ENCLOSED	ENCLOSED	ENCLOSED	ENCLOSED		

USEPA FOIA REQUEST
RIN 768-99

FEB 14, 99

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

11 413

SEMI VOLATILES FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NW CORE ROOM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 07-02-1991
SAMPLE NO. 67835

COMPOUND	RESULT (mg/L)	COMPOUND	RESULT (mg/L)
Acenaphthene	< 0.002	Dimethyl Phthalate	< 0.002
Acenaphthylene	< 0.001	4,6-Dinitro-2-methylphenol	< 0.050
Anthracene	< 0.001	2,4-Dinitrophenol	< 0.050
Benzidine	< 0.050	2,4-Dinitrotoluene	< 0.010
Benzo (a) Anthracene	< 0.005	2,6-Dinitrotoluene	< 0.009
Benzo (b) Fluoranthene	< 0.005	Di-n-octylphthalate	< 0.001
Benzo (k) Fluoranthene	< 0.005	1,2-Diphenylhydrazine	< 0.001
Benzo (a) Pyrene	< 0.005	Fluoranthene	< 0.001
Benzo (g,h,i) Perylene	< 0.010	Fluorene	< 0.002
Bis (2-chloroethyl) ether	< 0.004	Hexachlorobenzene	< 0.005
Bis-(2-chloroethoxy) Methane	< 0.004	Hexachlorobutadiene	< 0.005
Bis-(2-chloroisopropyl) Ether	< 0.001	Hexachloroethane	< 0.007
Bis-(2-Ethyl Hexyl) Phthalate	< 0.002	Hexachlorocyclopentadiene	< 0.005
4-Bromophenyl Phenyl Ether	< 0.007	Indeno (1,2,3-cd) Pyrene	< 0.010
Butyl Benzyl Phthalate	< 0.003	Isophorone	< 0.002
4-Chloro-3-methylphenol	< 0.004	Naphthalene	< 0.001
2-Chloronaphthalene	< 0.002	Nitrobenzene	< 0.004
2-Chlorophenol	< 0.002	2-Nitrophenol	< 0.005
4-Chlorophenyl Phenyl Ether	< 0.003	4-Nitrophenol	< 0.015
Chrysene	< 0.005	N-Nitrosodimethylamine	< 0.050
Dibenzo (a,h) Anthracene	< 0.010	N-Nitrosodiphenylamine	< 0.003
Di-n-butyl Phthalate	< 0.001	N-Nitrosodi-n-propylamine	< 0.004
1,2-Dichlorobenzene	< 0.003	Pentachlorophenol	< 0.020
1,3-Dichlorobenzene	< 0.003	Phenanthrene	< 0.001
1,4-Dichlorobenzene	< 0.003	Phenol	< 0.002
3,3'-Dichlorobenzidine	< 0.020	Pyrene	< 0.001
2,4-Dichlorophenol	< 0.003	1,2,4-Trichlorobenzene	< 0.003
Diethylphthalate	< 0.002	2,4,6-Trichlorophenol	< 0.005
2,4-Dimethylphenol	< 0.003		

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

USEPA FOIA REQUEST
RIN 768-94
FEB. 13, 94

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

11 415

VOLATILE FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SW PATTERN SHOP SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 06-26-1991
SAMPLE NO. 67836

COMPOUND	RESULT (mg/L)
Acrolein	< 0.015
Acrylonitrile	< 0.010
Benzene	< 0.001
Bromodichloromethane	< 0.002
Bromoform	< 0.015
Bromomethane	< 0.010
Carbon Tetrachloride	< 0.004
Chlorobenzene	< 0.001
Chlorodibromomethane	< 0.003
Chloroethane	< 0.010
Chloroform	< 0.001
2-Chloroethyl Vinyl Ether	< 0.010
Chloromethane	< 0.010
1,1-Dichloroethane	< 0.002
1,2-Dichloroethane	< 0.002
1,1-Dichloroethylene	< 0.002
1,2-Dichloroethylene (total)	< 0.002
1,2-Dichloropropane	< 0.003
cis-1,3-Dichloropropylene	< 0.004
trans-1,3-Dichloropropylene	< 0.004
Ethylbenzene	< 0.001
Methylene Chloride	< 0.005
1,1,2,2-Tetrachloroethane	< 0.002
Tetrachloroethylene	< 0.002
Toluene	< 0.001
1,1,1-Trichloroethane	< 0.002
1,1,2-Trichloroethane	< 0.003
Trichloroethylene	0.003
Vinyl Chloride	< 0.010

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

WW ENGINEERING & SCIENCE
PRIORITY POLLUTANT ANALYSIS

11 417

USEPA REQUEST
RIN 708-94
FEB. 14, 1994

TABLE 4
PESTICIDES FRACTION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SW PATTERN SHOP SUMP

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/06/91

SAMPLE NO. 67836

COMPOUND	RESULT (ug/l)	D.L.	COMPOUND	RESULT (ug/l)	D.L.
ALDRIN	*	1.0	ENDRIN ALDEHYDE	*	1.0
A-BHC	*	1.0	HEPTACHLOR	*	1.0
B-BHC	*	1.0	HEPTACHLOR EPOXIDE	*	1.0
D-BHC	*	1.0	TOXAPHENE	*	1.0
G-BHC	*	1.0	CHLORDANE	*	1.0
4-4'DDD	*	1.0	PCB-1016	*	1.0
4-4'DDE	*	1.0	PCB-1221	*	1.0
4-4'DDT	*	1.0	PCB-1232	*	1.0
DIELDRIN	*	1.0	PCB-1242	*	1.0
A-ENDOSULFAN	*	1.0	PCB-1248	*	1.0
B-ENDOSULFAN	*	1.0	PCB-1254	*	1.0
ENDOSULFAN SULFATE	*	1.0	PCB-1260	*	1.0
ENDRIN	*	1.0	METHOXYCHLOR	*	1.0

*COMPOUND NOT PRESENT AT DETECTION LIMIT

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

11 419

USEPA FOIA REQUEST
RIN 768-94
FEB 14 1994

SEMI VOLATILES FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: SE CLEAN RM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 07-02-1991
SAMPLE NO. 67837

COMPOUND	RESULT (mg/L)	COMPOUND	RESULT (mg/L)
Acenaphthene	< 0.002	Dimethyl Phthalate	< 0.002
Acenaphthylene	< 0.001	4,6-Dinitro-2-methylphenol	< 0.050
Anthracene	< 0.001	2,4-Dinitrophenol	< 0.050
Benzidine	< 0.050	2,4-Dinitrotoluene	< 0.010
Benzo (a) Anthracene	< 0.005	2,6-Dinitrotoluene	< 0.009
Benzo (b) Fluoranthene	< 0.005	Di-n-octylphthalate	< 0.001
Benzo (k) Fluoranthene	< 0.005	1,2-Diphenylhydrazine	< 0.001
Benzo (a) Pyrene	< 0.005	Fluoranthene	< 0.001
Benzo (g,h,i) Perylene	< 0.010	Fluorene	< 0.002
Bis (2-chloroethyl) ether	< 0.004	Hexachlorobenzene	< 0.005
Bis-(2-chloroethoxy) Methane	< 0.004	Hexachlorobutadiene	< 0.005
Bis-(2-chloroisopropyl) Ether	< 0.001	Hexachloroethane	< 0.007
Bis-(2-Ethyl Hexyl) Phthalate	< 0.002	Hexachlorocyclopentadiene	< 0.005
4-Bromophenyl Phenyl Ether	< 0.007	Indeno (1,2,3-cd) Pyrene	< 0.010
Butyl Benzyl Phthalate	< 0.003	Isophorone	< 0.002
4-Chloro-3-methylphenol	< 0.004	Naphthalene	< 0.001
2-Chloronaphthalene	< 0.002	Nitrobenzene	< 0.004
2-Chlorophenol	< 0.002	2-Nitrophenol	< 0.005
4-Chlorophenyl Phenyl Ether	< 0.003	4-Nitrophenol	< 0.015
Chrysene	< 0.005	N-Nitrosodimethylamine	< 0.050
Dibenzo (a,h) Anthracene	< 0.010	N-Nitrosodiphenylamine	< 0.003
Di-n-butyl Phthalate	< 0.001	N-Nitrosodi-n-propylamine	< 0.004
1,2-Dichlorobenzene	< 0.003	Pentachlorophenol	< 0.020
1,3-Dichlorobenzene	< 0.003	Phenanthrene	< 0.001
1,4-Dichlorobenzene	< 0.003	Phenol	< 0.002
3,3'-Dichlorobenzidine	< 0.020	Pyrene	< 0.001
2,4-Dichlorophenol	< 0.003	1,2,4-Trichlorobenzene	< 0.003
Diethylphthalate	< 0.002	2,4,6-Trichlorophenol	< 0.005
2,4-Dimethylphenol	< 0.003		

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

ANALYTICAL SERVICES
PRIORITY POLLUTANT ANALYSIS

11 421

USEPA FOIA REQUEST
RIN 768-94
FEB. 14, 1994

VOLATILE FRACTION

CLIENT: GM CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NE MOLD ROOM SUMP

DATE SAMPLED: 06-17-1991 TIME:
DATE RECEIVED: 06-18-1991 TIME: 12:00 PM
TEST DATE: 06-22-1991
SAMPLE NO. 67838

COMPOUND	RESULT (mg/L)
Acrolein	< 0.015
Acrylonitrile	< 0.010
Benzene	< 0.001
Bromodichloromethane	< 0.002
Bromoform	< 0.015
Bromomethane	< 0.010
Carbon Tetrachloride	< 0.004
Chlorobenzene	< 0.001
Chlorodibromomethane	< 0.003
Chloroethane	< 0.010
Chloroform	< 0.001
2-Chloroethyl Vinyl Ether	< 0.010
Chloromethane	< 0.010
1,1-Dichloroethane	0.003
1,2-Dichloroethane	< 0.002
1,1-Dichloroethylene	< 0.002
1,2-Dichloroethylene (total)	< 0.002
1,2-Dichloropropane	< 0.003
cis-1,3-Dichloropropylene	< 0.004
trans-1,3-Dichloropropylene	< 0.004
Ethylbenzene	< 0.001
Methylene Chloride	< 0.005
1,1,2,2-Tetrachloroethane	< 0.002
Tetrachloroethylene	< 0.002
Toluene	< 0.001
1,1,1-Trichloroethane	< 0.002
1,1,2-Trichloroethane	< 0.003
Trichloroethylene	< 0.002
Vinyl Chloride	< 0.010

** A less than (<) sign indicates that the compound was nondetectable at the specified detection limit.

Burmah Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313/33

December 19,1988

General Motors Corporation
Central Foundry Division
Saginaw Nodular Iron Plant
Attn: Bill Hudson

Date Received: 11-8-88					
ALD Number:	47917	47918	47919	47920	47921
Client I.D.:	NW Core Room 11-2-88	NE #5 M.L 11-8-88	SE Pattern Shop 11-8-88	SW Eng. Storage 11-8-88	Outfall River Out 11-8-88
Base/Neutral Compounds (cont'd.), ug/l					
Indeno(1,2,3-cd)pyrene	BDL	BDL	BDL	BDL	BDL
Isophorone	BDL	BDL	BDL	BDL	BDL
Naphthalene	BDL	BDL	BDL	BDL	BDL
Nitrobenzene	BDL	BDL	BDL	BDL	BDL
N-Nitrosodimethylamine	BDL	BDL	BDL	BDL	BDL
N-Nitroso-di-n-propylamine	BDL	BDL	BDL	BDL	BDL
N-Nitrosodiphenylamine	BDL	BDL	BDL	BDL	BDL
Phenanthrene	BDL	BDL	BDL	BDL	BDL
Pyrene	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	BDL	BDL	BDL	BDL	BDL
Acid Compounds, ug/l					
2-Chlorophenol	BDL	BDL	BDL	BDL	BDL
2,4-Dichlorophenol	BDL	BDL	BDL	BDL	BDL
2,4-Dimethylphenol	BDL	BDL	30	BDL	BDL
4,6-Dinitro-o-cresol	BDL	BDL	BDL	BDL	BDL
2,4-Dinitrophenol	BDL	BDL	BDL	BDL	BDL
2-Nitrophenol	BDL	BDL	BDL	BDL	BDL
4-Nitrophenol	BDL	BDL	BDL	BDL	BDL
p-Chloro-m-cresol	BDL	BDL	BDL	BDL	BDL
Pentachlorophenol	BDL	BDL	BDL	BDL	BDL
Phenol	BDL	BDL	67	BDL	BDL
2,4,6-Trichlorophenol	BDL	BDL	BDL	BDL	BDL

USEPA REGION V
RIN 763-93
FEB 14 1994

AMMONIA DATA ON SNI SUMPS
(ALL DATA IN MG/L)

DATE	SW	NW	#5	NE(#6)	SE
10/26	10.5	4.1	6.9	2.3	102.6
10/28	6.0	2.7	1.9	2.9	42.9
11/2	7.4	4.2	4.0	3.1	84.3

USE
FEB 94

WW ENGINEERING & SCIENCE
PRIORITY POLLUTANT ANALYSIS

USEPA FOIA REQUEST
RIN 768-94
FEB 14 1994

11 426

TABLE 4
PESTICIDES FRACTION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
SAMPLE: NE MOLD ROOM SUMP

DATE SAMPLED: 06/17/91 TIME:
DATE RECEIVED: 06/18/91 TIME: 12:00 PM
DATE COMPLETED: 07/06/91

SAMPLE NO. 67838

COMPOUND	RESULT (ug/l)	D.L.	COMPOUND	RESULT (ug/l)	D.L.
ALDRIN	*	1.0	ENDRIN ALDEHYDE	*	1.0
A-BHC	*	1.0	HEPTACHLOR	*	1.0
B-BHC	*	1.0	HEPTACHLOR EPOXIDE	*	1.0
D-BHC	*	1.0	TOXAPHENE	*	1.0
G-BHC	*	1.0	CHLORDANE	*	1.0
4-4'DDD	*	1.0	PCB-1016	*	1.0
4-4'DDE	*	1.0	PCB-1221	*	1.0
4-4'DDT	*	1.0	PCB-1232	*	1.0
DIELDRIN	*	1.0	PCB-1242	*	1.0
A-ENDOSULFAN	*	1.0	PCB-1248	*	1.0
B-ENDOSULFAN	*	1.0	PCB-1254	*	1.0
ENDOSULFAN SULFATE	*	1.0	PCB-1260	*	1.0
ENDRIN	*	1.0	METHOXYCHLOR	*	1.0

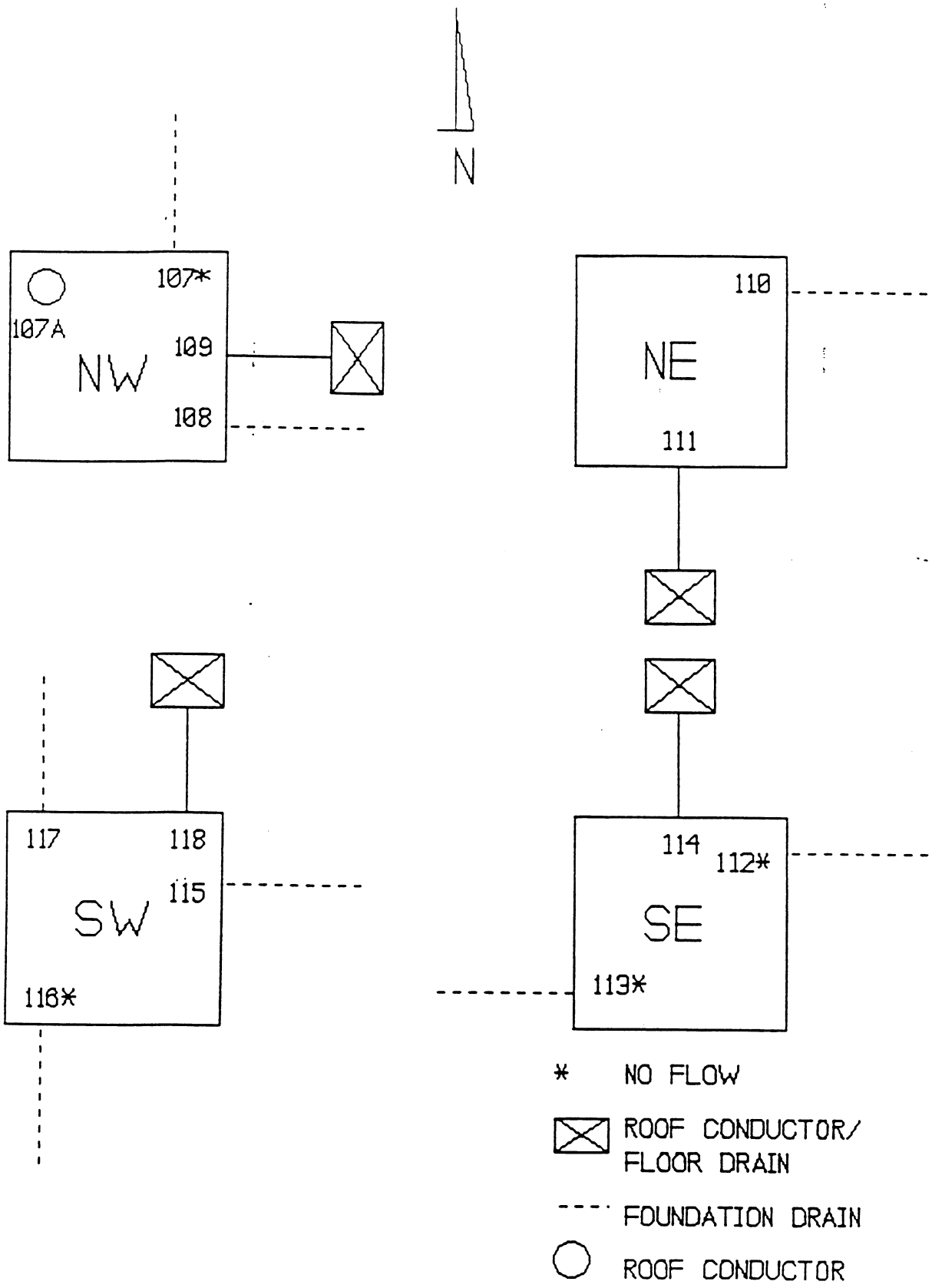
*COMPOUND NOT PRESENT AT DETECTION LIMIT

AMMONIA DATA ON SNI SUMPS
(ALL DATA IN MG/L)

DATE	SW	NW	#5	NE(#6)	SE
10/26	10.5	4.1	6.9	2.3	102.6
10/28	6.0	2.7	1.9	2.9	42.9
11/2	7.4	4.2	4.0	3.1	84.3
11/18	10.9	3.9	4.3	8.3	58.7

USEPA FOIA
RIN
FEB

ATTACHMENT 1



STORM LIFT PUMP STATIONS

SAMPLE POINTS 107 TO 118
SAGINAW NODULAR IRON PLANT

General Motors Corporation

Sample #: L8020-5 (Project)

Description : #107A TOP DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	5	1	mg/l	1	325.3
Chemical Oxygen Demand	21	5	mg/l	5	410.1
Total Chromium	ND	.001	mg/l	.001	218.2
Dissolved Oxygen	7.8	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	.18	.1	mg/l	.1	350.2
Total Nickel	ND	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	ND	.01	mg/l	.01	420.1
tal Dissolved Solids	105	1	mg/l	1	160.1
eldahl Nitrogen	ND	1	mg/l	1	351.3
Total Organic Carbon	3	1	mg/l	1	415.1
Total Suspended Solids	6	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	ND	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.004	.001	mg/l	.001	220.2
Total Iron	.25	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	ND	.009	mg/l	.009	200.7
Total Magnesium	2.77	.03	mg/l	.03	200.7
Total Manganese	.007	.002	mg/l	.002	200.7
Total Molybdenum	ND	.008	mg/l	.008	200.7
pH	7.8	.1	Units	.1	150.1
Total Lead	ND	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	.073	.05	mg/l	.05	200.7

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

Sample #: L8020-5 (Project)

Description : #107A TOP DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	5	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	ND	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	ND	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-5 (Project)

Description : #107A TOP DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
thracene	ND	1	ug/l	3	8270
izidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	10	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-5 (Project)

Description : #107A TOP DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
exachlorocyclopentadiene	ND	1	ug/l	3	8270
xachloroethane	ND	1	ug/l	3	8270
deno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4404

General Motors Corporation

Sample #: L8020-3 (Project)

Description : #108 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	190	1	mg/l	1	325.3
Chemical Oxygen Demand	35	5	mg/l	5	410.1
Total Chromium	.004	.001	mg/l	.001	218.2
Dissolved Oxygen	7.8	1	mg/l	1	360.1
Oil & Grease	1	1	mg/l	1	413.1
Ammonia Nitrogen	1.8	.1	mg/l	.1	350.2
Total Nickel	ND	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	ND	.01	mg/l	.01	420.1
Total Dissolved Solids	745	1	mg/l	1	160.1
Kjeldahl Nitrogen	ND	2	mg/l	1	351.3
Total Organic Carbon	14	1	mg/l	1	415.1
Total Suspended Solids	22	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.001	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	4.72	.01	mg/l	.01	200.7
Total Iron	4.55	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	ND	.009	mg/l	.009	200.7
Total Magnesium	20.8	.03	mg/l	.03	200.7
Total Manganese	.287	.002	mg/l	.002	200.7
Total Molybdenum	.034	.008	mg/l	.008	200.7
pH	6.4	.1	Units	.1	150.1
Total Lead	.002	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	ND	.05	mg/l	.05	200.7

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) 477-6660 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-3 (Project)

Description : #108 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	ND	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	3	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-3 (Project)

Description : #108 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
Anthracene	ND	1	ug/l	3	8270
Benzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-3 (Project)

Description : #108 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-4 (Project)

Description : #109 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	.004	.001	mg/l	.001	204.2
Chloride	34	1	mg/l	1	325.3
Chemical Oxygen Demand	270	50	mg/l	50	410.1
Total Chromium	.081	.001	mg/l	.001	218.2
Dissolved Oxygen	5.6	1	mg/l	1	360.1
Oil & Grease	23	1	mg/l	1	413.1
Ammonia Nitrogen	2.4	.5	mg/l	.1	350.2
Total Nickel	.028	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	.13	.02	mg/l	.01	420.1
[illegible]al Dissolved Solids	196	1	mg/l	1	160.1
[illegible]ldahl Nitrogen	ND	5	mg/l	1	351.3
Total Organic Carbon	3	1	mg/l	1	415.1
Total Suspended Solids	668	1	mg/l	1	160.2
Total Silver	.0005	.0005	mg/l	.0005	272.2
Total Arsenic	.019	.001	mg/l	.001	206.2
Total Cadmium	.0038	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.187	.001	mg/l	.001	220.2
Total Iron	88.5	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	.012	.009	mg/l	.009	200.7
Total Magnesium	10.6	.03	mg/l	.03	200.7
Total Manganese	1.67	.002	mg/l	.002	200.7
Total Molybdenum	.014	.008	mg/l	.008	200.7
pH	8.4	.1	Units	.1	150.1
Total Lead	.102	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	3.68	.05	mg/l	.05	200.7

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

Sample #: L8020-4 (Project)

Description : #109 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
chlorodifluoromethane	ND	1	ug/l	1	601
1-Dichloroethane	ND	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	ND	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-4 (Project)

Description : #109 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
thracene	ND	1	ug/l	3	8270
izidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	10	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	10	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-4 (Project)

Description : #109 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-7 (Project)

Description : #110 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	65	1	mg/l	1	325.3
Chemical Oxygen Demand	49	5	mg/l	5	410.1
Total Chromium	.002	.001	mg/l	.001	218.2
Dissolved Oxygen	8	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	13.5	1	mg/l	.1	350.2
Total Nickel	ND	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	.021	.01	mg/l	.01	420.1
tal Dissolved Solids	410	1	mg/l	1	160.1
eldahl Nitrogen	13.6	1	mg/l	1	351.3
Total Organic Carbon	16	1	mg/l	1	415.1
Total Suspended Solids	4	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.015	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.004	.001	mg/l	.001	220.2
al Iron	.967	.05	mg/l	.05	200.7
tal Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	ND	.009	mg/l	.009	200.7
Total Magnesium	8.31	.03	mg/l	.03	200.7
Total Manganese	.4	.002	mg/l	.002	200.7
Total Molybdenum	.072	.008	mg/l	.008	200.7
pH	8.7	.1	Units	.1	150.1
Total Lead	ND	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	ND	.05	mg/l	.05	200.7

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

Sample #: L8020-7 (Project)

Description : #110 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
chlorodifluoromethane	ND	1	ug/l	1	601
1-Dichloroethane	ND	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	ND	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-7 (Project)

Description : #110 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
thracene	ND	1	ug/l	3	8270
nzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-[illegible]

General Motors Corporation

Sample #: L8020-7 (Project)

Description : #110 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-6 (Project)

Description : #111 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	.003	.001	mg/l	.001	204.2
Chloride	45	1	mg/l	1	325.3
Chemical Oxygen Demand	180	50	mg/l	50	410.1
Total Chromium	.043	.001	mg/l	.001	218.2
Dissolved Oxygen	6	1	mg/l	1	360.1
Oil & Grease	3	1	mg/l	1	413.1
Ammonia Nitrogen	1.7	.5	mg/l	.1	350.2
Total Nickel	.01	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	.044	.01	mg/l	.01	420.1
Total Dissolved Solids	260	1	mg/l	1	160.1
Kjeldahl Nitrogen	ND	2	mg/l	1	351.3
Total Organic Carbon	7	1	mg/l	1	415.1
Total Suspended Solids	476	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.015	.001	mg/l	.001	206.2
Total Cadmium	.0042	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.084	.001	mg/l	.001	220.2
Total Iron	39.5	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	.017	.009	mg/l	.009	200.7
Total Magnesium	10.7	.03	mg/l	.03	200.7
Total Manganese	.45	.002	mg/l	.002	200.7
Total Molybdenum	.016	.008	mg/l	.008	200.7
pH	9	.1	Units	.1	150.1
Total Lead	.05	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	1.98	.05	mg/l	.05	200.7

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

Sample #: L8020-6 (Project)

Description : #111 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	ND	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	ND	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-6 (Project)

Description : #111 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
thracene	ND	1	ug/l	3	8270
nzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

RMT INC
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40081
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40096
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40100
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40101
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40216
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40217
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40218
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40223
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT, INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40224 REPORT DATE: 07/20/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3H 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40073
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 9-10'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	2.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40074
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 10-11'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	3.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40075
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/20/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 11-12'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.®
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40035
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 4-5'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40036
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40037
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40038
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40039
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40040
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40043
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 15-16'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40068 REPORT DATE: 07/03/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 4-5'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40041
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 10-11'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40042
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 11-12'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40069 REPORT DATE: 07/03/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40070
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner

Kenneth C. Brunner, Operations Manager

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LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40071 REPORT DATE: 07/03/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40072
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 8-9'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	6.2	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41096
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/14/89
COLLECTION DATE: 07/25/89
STATION ID: B-N 9-10'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	4.2	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation or other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40076
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 4-5'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	4.9	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C. Brunner, Operations Manager

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41103
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/14/89
COLLECTION DATE: 07/25/89
STATION ID: COMPOSITE DECON
SAMPLE COLLECTOR: 07/25

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	ug/1
AROCLOR - 1221	<1.0	ug/1
AROCLOR - 1232	<1.0	ug/1
AROCLOR - 1242	<1.0	ug/1
AROCLOR - 1248	<1.0	ug/1
AROCLOR - 1254	<1.0	ug/1
AROCLOR - 1260	<1.0	ug/1

Alan Doughty, Ph.D., Laboratory Director

744 Heartland Trail, P.O. Box 8923, Madison, WI 53708-8923. Ph:(608)831-[illegible]

APPENDIX A

PCB LABORATORY RESULTS

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION:
SAMPLED BY:
DESCRIPTION: PCB ANALYSIS

DATE SAMPLED: 00/00/00 TIME:
DATE RECEIVED: 12/05/90 TIME: 1:00 PM
DATE COMPLETED: 12/13/90
SCHEDULED COMPLETION: 12/14/90
ANALYST: AAL
QUALITY CONTROL REVIEW BY: RWH
WORKSHEET NO: 98

	#1	#2	#3	#4	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	53897	53898	53899	53900		
PCB: AROCLOR 1016	<0.08	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1221	<0.08	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1232	<0.08	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1242	<0.08	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1248	0.13	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1254	<0.08	<0.08	<0.08	<0.08	0.08	mg/kg
PCB: AROCLOR 1260	<0.08	0.14	<0.08	2.1	0.08	mg/kg

WW ENGINEERING & SCIENCE
ENVIRONMENTAL LABORATORY DIVISION

CLIENT: CENTRAL FOUNDRY
PROJECT NO.: 25744
LOCATION:
SAMPLED BY:
DESCRIPTION: PCB ANALYSIS

DATE SAMPLED: 00/00/00 TIME:
DATE RECEIVED: 12/05/90 TIME: 1:00 PM
DATE COMPLETED: 12/13/90
SCHEDULED COMPLETION: 12/14/90
ANALYST: AAL
QUALITY CONTROL REVIEW BY: RWH
WORKSHEET NO: 99

	#5	DETECTION LIMIT	UNITS
LAB SAMPLE NO:	53901		
PCB: AROCLOR 1016	<0.08	0.08	mg/kg
PCB: AROCLOR 1221	<0.08	0.08	mg/kg
PCB: AROCLOR 1232	<0.08	0.08	mg/kg
PCB: AROCLOR 1242	<0.08	0.08	mg/kg
PCB: AROCLOR 1248	<0.08	0.08	mg/kg
PCB: AROCLOR 1254	<0.08	0.08	mg/kg
PCB: AROCLOR 1260	0.76	0.08	mg/kg

Appendix 12.5
Available Laboratory Analytical Data
Former Virgin Oil Storage Pad

PCB Cleanup Sample Analysis
6/20/89

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

MEETING WITH MDNR
AUGUST 8, 1989
DISCUSS 4 RCRA CLOSURES
AND PCB CLEANUP ACTIVITIES
GMC-CFD
SAGINAW NODULAR IRON

1125.23 gmc30813

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40022
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE:
STATION ID: COMPOSITE BANK
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	4.4	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40023 REPORT DATE: 06/28/89
PROJECT #: 01125.30 COLLECTION DATE: 06/20/89
WORK ORDER #: 062289-0112530 STATION ID: B-4 0-1'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	36.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40024
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-4 1-2'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	1.3	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40025
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-4 2-3'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40026
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-4 3-4'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40027
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-4 4-4.5'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	5.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C. Brunner, Operations Manager

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LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40028 REPORT DATE: 06/28/89
PROJECT #: 01125.30 COLLECTION DATE: 06/20/89
WORK ORDER #: 062289-0112530 STATION ID: B-3 0-1'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40029
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-2 0-1'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40030
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-2 1-2'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<2.0	mg/kg dry wt.
AROCLOR - 1221	<2.0	mg/kg dry wt.
AROCLOR - 1232	<2.0	mg/kg dry wt.
AROCLOR - 1242	<2.0	mg/kg dry wt.
AROCLOR - 1248	<2.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.®
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40031 REPORT DATE: 06/28/89
PROJECT #: 01125.30 COLLECTION DATE: 06/20/89
WORK ORDER #: 062289-0112530 STATION ID: B-2 2-3'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<4.0	mg/kg dry wt.
AROCLOR - 1221	<4.0	mg/kg dry wt.
AROCLOR - 1232	<4.0	mg/kg dry wt.
AROCLOR - 1242	<4.0	mg/kg dry wt.
AROCLOR - 1248	<4.0	mg/kg dry wt.
AROCLOR - 1254	<4.0	mg/kg dry wt.
AROCLOR - 1260	<4.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.®
LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40032 REPORT DATE: 06/28/89
PROJECT #: 01125.30 COLLECTION DATE: 06/20/89
WORK ORDER #: 062289-0112530 STATION ID: B-1 0-1'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40033
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-1 1-2'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<2.0	mg/kg dry wt.
AROCLOR - 1221	<2.0	mg/kg dry wt.
AROCLOR - 1232	<2.0	mg/kg dry wt.
AROCLOR - 1242	<2.0	mg/kg dry wt.
AROCLOR - 1248	<2.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40034
PROJECT #: 01125.30
WORK ORDER #: 062289-0112530
REPORT DATE: 06/28/89
COLLECTION DATE: 06/20/89
STATION ID: B-1 2-3'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0	mg/kg dry wt.
AROCLOR - 1221	<5.0	mg/kg dry wt.
AROCLOR - 1232	<5.0	mg/kg dry wt.
AROCLOR - 1242	<5.0	mg/kg dry wt.
AROCLOR - 1248	<5.0	mg/kg dry wt.
AROCLOR - 1254	<5.0	mg/kg dry wt.
AROCLOR - 1260	<5.0	mg/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

1406 East Washington Ave., Madison, WI 53703, Phone: 608-255-2134

TABLE 1
SAGINAW NODULAR IRON
NICP Results
AROCLOR - 1260

PTH	UNITS	BH-L	BH-K	B-M	B-O	BH-3C	BH-3A	BH-3E	BH-3D	BH-3H	ELEVATION
0	mg/kg										591
1	mg/kg										590
2	mg/kg										589
3	mg/kg	NEW BROWN SAND FILL UNDER LINER									588
4	mg/kg	<1.0	<1.0			4.9	<2.0	4.6	38.0	159.0	587
5	mg/kg	<1.0	<1.0			1.0	<5.0	<2.0	<10.0	**<5.0	586
6	mg/kg	<1.0	<1.0			<1.0	<5.0	<5.0	<1.0	No Recovery	585
7	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	&UNSAMPLED	<1.0	<5.0	584
8	mg/kg	<1.0	@6.2	1.4	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	583
9	mg/kg	<1.0	2.0	1.7	<1.0	<1.0		<1.0	<1.0	<1.0	582
10	mg/kg	<1.0	3.0	2.0	<1.0			***			581
11	mg/kg	<1.0	<1.0	<1.0	<10.0			***			580
12	mg/kg	*UNSAMPLED		<1.0							579
[redacted]	mg/kg	*UNSAMPLED									578
14	mg/kg	*UNSAMPLED									577
15	mg/kg	<1.0									576

1 D#1015 1125.30
Concrete Saddle for Underground Storage Tank
Replicate was also <5.0
Extracted but not analyzed
Piece of wood
Reanalyzed - Confirmed at 3.5
ES: Rinseate <1.0 ug/l
Detection limit changes due to matrix interferences

TABLE 2
SAGINAW NODULAR IRON
NICP Results
CHLOROBENZENE

DEPTH	UNITS	B-L	BH-K	BH-3C	BH-3A	BH-3E	BH-3D	BH-3H	ELEVATION
0	mg/kg								591
1	mg/kg								590
2	mg/kg								589
3	mg/kg	NEW BROWN SAND FILL UNDER LINER							588
4	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	13	7	587
5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	586
6	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	**	No Recovery	585
7	mg/kg	<2.0	<2.0	<2.0	<2.0	&Unsampled	<2.0	<2.0	584
8	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		583
9	mg/kg	<2.0	<2.0	<2.0		<2.0	<2.0		582
10	mg/kg	<2.0	**			<2.0			581
11	mg/kg	<2.0	<2.0			<2.0			580
12	mg/kg	*Unsampled							579
13	mg/kg	*Unsampled							578
14	mg/kg	*Unsampled							577
15	mg/kg	<2.0							576

NICP2 D#1015 1125.30

* Concrete Saddle for Underground Storage Tank
** Poor Recovery; No VOA Sample
& Piece of wood

TABLE 3
SAGINAW NODULAR IRON
NICP Results
BENZENE

DEPTH	UNITS	B-L	BH-K	BH-3C	BH-3A	BH-3E	BH-3D	BH-3H	ELEVATION
0	mg/kg								591
1	mg/kg								590
2	mg/kg								589
3	mg/kg	NEW BROWN SAND FILL UNDER LINER							588
4	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	587
5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	586
6	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	**	No Recovery	585
7	mg/kg	<2.0	<2.0	<2.0	<2.0	&Unsampled	<2.0	<2.0	584
8	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		583
9	mg/kg	<2.0	<2.0	<2.0		<2.0	<2.0		582
10	mg/kg	<2.0	**			<2.0			581
11	mg/kg	<2.0	<2.0			<2.0			580
12	mg/kg								579
13	mg/kg								578
14	mg/kg								577
15	mg/kg	<2.0							576

NICP3 D#1015 1125.30
* Concrete Saddle for Underground Storage Tank
** Poor Recovery; No VOA Sample
& Piece of wood

TABLE 4
SAGINAW NODULAR IRON
NICP Results
TOLUENE

DEPTH	UNITS	B-L	BH-K	BH-3C	BH-3A	BH-3E	BH-3D	BH-3H	ELEVATION
0	mg/kg								591
1	mg/kg								590
2	mg/kg								589
3	mg/kg	NEW BROWN SAND FILL UNDER LINER							588
4	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	587
5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	586
6	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0		No Recovery	585
7	mg/kg	<2.0	<2.0	<2.0	<2.0	&Unsampled	LTE	<2.0	584
8	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		583
9	mg/kg	<2.0	<2.0	<2.0		<2.0	<2.0		582
10	mg/kg	<2.0	**			<2.0			581
11	mg/kg	<2.0	<2.0			<2.0			580
12	mg/kg	*Unsampled							579
13	mg/kg	*Unsampled							578
14	mg/kg	*Unsampled							577
15	mg/kg	<2.0							576

NICP4 D#1015 1125.30
* Concrete Saddle for Underground Storage Tank
** Poor Recovery; No VOA Sample
& Piece of wood

TABLE 5
SAGINAW NODULAR IRON
NICP Results
XYLENES

DEPTH	UNITS	B-L	BH-K	BH-3C	BH-3A	BH-3E	BH-3D	BH-3H	ELEVATION
0	mg/kg								591
1	mg/kg								590
2	mg/kg								589
3	mg/kg	NEW BROWN SAND FILL UNDER LINER							588
4	mg/kg	<2.0	<2.0	<2.0	<2.0	LTE 3.0	LTE 8.7	LTE 5.1	587
5	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	586
6	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	**	No Recovery	585
7	mg/kg	<2.0	<2.0	<2.0	<2.0	&Unsampled	<2.0	<2.0	584
8	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		583
9	mg/kg	<2.0	<2.0	<2.0		<2.0	<2.0		582
10	mg/kg	<2.0	**			<2.0			581
11	mg/kg	<2.0	<2.0			<2.0			580
12	mg/kg	*Unsampled							579
13	mg/kg	*Unsampled							578
14	mg/kg	*Unsampled							577
15	mg/kg	<2.0							576

NICP5 D#1015 1125.30
* Concrete Saddle for Underground Storage Tank
** Poor Recovery; No VOA Sample
& Piece of Wood
NOTE: LTE x.y = Less than or equal to x.y mg/kg due to Interfering peaks.

Table 2

RMT Laboratories

PCBs Volatile Organic Compounds
Analytical Results
of
May 24, 1989

Parameters (ug/kg)

Sample Identification	Benzene	Chlorobenzene	Toluene	Xylene	PCBs
A	<1.0	3.5	41	<3.0	400
B	<1.0	<1.0	<1.0	<3.0	500
C	<1.0	<1.0	4.3	<3.0	500
D	4,700	146,000	≤7,000	<3,000	45,000
E	<100	6,200	1,600	<3,000	48,000
F	2.3	<1.0	<1.0	<3,000	500
G	560	3,500	88	<150	800
H	4,900	130,000	≤6,100	<3,000	120,000
I	<100	580	<1,000	<3,000	7,100
		(ug/l)			
Composite 1	<1.0	1.2	<1.0	<3.0	75.0
Composite 2	<1.0	<1.0	<3.0	<3.0	57.0
Composite 3	<1.0	<1.0	<1.0	<3.0	170.0
J*	<1.0	8.2	<1.0	<3.0	15.0

*Pooled Water

PCB Cleanup Sample Analysis
9/20/88

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43878
Client I.D.:	E87-2693-22 Soil Behind Oil House West
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	88
Oil & Grease, mg/kg	410
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 13 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/5L

Susan K. Scott
Laboratory Supervisor

Burmah

LDH

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43880
Client I.D.:	E87-2693-24 Soil Behind Oil House North
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	89
Oil & Grease, mg/kg	350
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 18 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/7L

Susan K. Scott
Laboratory Supervisor

Burman

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43876
Client I.D.:	E87-2693-20 Soil Behind Oil House East End 9-1-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	90
Oil & Grease, mg/kg	170
Volatile Organic Analysis:	
Xylenes, mg/kg	25-30

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.001
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 9 mls of 0.5 N acetic acid, the final pH was 4.9.

WA/3L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43882
Client I.D.:	E87-2693-26 South Pattern Spray Tank West End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	90
Oil & Grease, mg/kg	5400
Volaitle Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.12
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.10
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	0.05

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 80 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/9L

Susan K. Scott
Laboratory Supervisor

Burman

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number: 43884

Client I.D.: E87-2693-28
Waste Oil Tank
West End
9-2-88

Physical Description: 100% Soil

As Received:

Total Solids @ 104°C, %	86
Oil & Grease, mg/kg	150
Volatile Organic Analysis:	No Compounds Detected
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.15
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.20
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 70 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/11L

Susan K. Scott
Laboratory Supervisor

Burmah

6
3
4
5

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43888
Client I.D.:	E87-2693-32 Air Line Lube Oil Tank West End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	82
Oil & Grease, mg/kg	110
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.20
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.06
Nickel, Ni, mg/l	0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 80 mls of 0.5 N acetic acid, the final pH was 5.1.

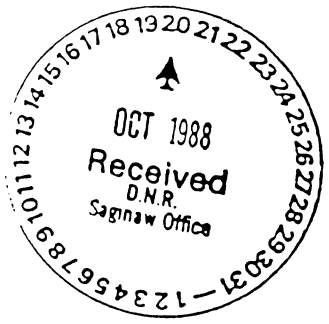
WA/15L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988



PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43890
Client I.D.:	E87-2693-34 Air Line Lube Oil Tank East End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	84
Oil & Grease, mg/kg	2400
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.06
Nickel, Ni, mg/l	0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 43 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/17L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50195
Client I.D.:	E87-2693-46 Southwest 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	84
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.31
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	0.03

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 200 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/6L

Christopher P. Jork
Laboratory Manager

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50193
Client I.D.:	E87-2693-44 South Center 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	83
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.22
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.10
Nickel, Ni, mg/l	0.06

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 180 mls of 0.5 N. acetic acid, the final pH was 5.1.

Ana/4L

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50191
Client I.D.:	E87-2693-42 Southeast 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	81
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	0.04

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 11 mls of 0.5 N. acetic acid, the final pH was 5.0.

Ana/2L

Will Thurson NW-1D

Burman Technical Services, Inc.
Analytical Laboratories Division
408 Auburn Avenue
Pontiac, Michigan 48058
313-334-4747

Samples taken after soil excavation, south of oil storage pad.

Bierlein Environmental Service
2903 S. Graham Road
Saginaw, MI 48603
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50190
Client I.D.:	E87-2693-41 Northeast 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	75
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	8

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02
Nickel, Ni, mg/l	0.09

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 20 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/1L

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50192
Client I.D.:	E87-2693-43 North Center 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	85
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.17
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.23
Nickel, Ni, mg/l	0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 134 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/3L

Burmah

Bierlein Environmental Service
Attn: Ron Pomranky

January 20, 1989

Job# E87-2693-Extra

PROGRAM: GM CENTRAL FOUNDRY - NODULAR IRON

Date Received: 12-28-88

ALD Number:	50194
Client I.D.:	E87-2693-45 Northwest 12-9-88
Physical Description:	100% Black Soil

As Received:

Total Solids @ 104°C, %	79
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.46
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.07
Nickel, Ni, mg/l	0.06

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 400 mls of 0.5 N. acetic acid, the final pH was 4.8.

Ana/5L

General Motors Corporation

Sample #: L8020-2 (Project)

Description : #118 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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

General Motors Corporation

Sample #: L8020-2 (Project)

Description : #118 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
Anthracene	ND	1	ug/l	3	8270
Benzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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.

24450 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-2 (Project)

Description : #118 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	11	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	3	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	3	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-2 (Project)

Description : #118 MAN. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	28	1	mg/l	1	325.3
Chemical Oxygen Demand	25	5	mg/l	5	410.1
Total Chromium	ND	.001	mg/l	.001	218.2
Dissolved Oxygen	7.8	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	8	.5	mg/l	.1	350.2
Total Nickel	.004	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	.012	.01	mg/l	.01	420.1
Total Dissolved Solids	143	1	mg/l	1	160.1
Kjeldahl Nitrogen	9.4	1	mg/l	1	351.3
Total Organic Carbon	8	1	mg/l	1	415.1
Total Suspended Solids	2	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.008	.001	mg/l	.001	206.2
Total Cadmium	.0004	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.008	.001	mg/l	.001	220.2
Total Iron	.443	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	ND	.009	mg/l	.009	200.7
Total Magnesium	3.11	.03	mg/l	.03	200.7
Total Manganese	.055	.002	mg/l	.002	200.7
Total Molybdenum	.016	.008	mg/l	.008	200.7
pH	8.9	.1	Units	.1	150.1
Total Lead	.01	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	.704	.05	mg/l	.05	200.7

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

Sample #: L8020-10 (Project)

Description : #117 S.W. SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-10 (Project)

Description : #117 S.W. SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
Anthracene	ND	1	ug/l	3	8270
Benzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-10 (Project)

Description : #117 S.W. SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	41	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	1	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	8	1	ug/l	1	601
1,1,2-Trichloroethane	5	1	ug/l	1	601
Trichloroethene	87	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-10 (Project)

Description : #117 S.W. SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	298	1	mg/l	1	325.3
Chemical Oxygen Demand	19	5	mg/l	5	410.1
Total Chromium	ND	.001	mg/l	.001	218.2
Dissolved Oxygen	7.5	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	3.5	1	mg/l	1	350.2
Total Nickel	ND	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	ND	.01	mg/l	.01	420.1
Total Dissolved Solids	1086	1	mg/l	1	160.1
Kjeldahl Nitrogen	4.8	1	mg/l	1	351.3
Total Organic Carbon	5	1	mg/l	1	415.1
Total Suspended Solids	7	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.007	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.001	.001	mg/l	.001	220.2
Total Iron	4.44	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	.013	.009	mg/l	.009	200.7
Total Magnesium	39.9	.03	mg/l	.03	200.7
Total Manganese	.261	.002	mg/l	.002	200.7
Total Molybdenum	.017	.008	mg/l	.008	200.7
pH	7.3	.1	Units	.1	150.1
Total Lead	.002	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	ND	.05	mg/l	.05	200.7

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) 477-8894

General Motors Corporation

Sample #: L8020-1 (Project)

Description : #115 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4504

General Motors Corporation

Sample #: L8020-1 (Project)

Description : #115 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	ND	1	ug/l	3	8270
2-Methylphenol	ND	1	ug/l	3	8270
3&4-Methylphenol	ND	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	ND	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
Acenaphthylene	ND	1	ug/l	3	8270
Anthracene	ND	1	ug/l	3	8270
Benzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	10	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	8270

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-1 (Project)

Description : #115 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	8	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	2	1	ug/l	1	601
1,1,2-Trichloroethane	1	1	ug/l	1	601
Trichloroethene	16	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	1	ug/l	3	8270

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-1 (Project)

Description : #115 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	ND	.001	mg/l	.001	204.2
Chloride	200	1	mg/l	1	325.3
Chemical Oxygen Demand	15	5	mg/l	5	410.1
Total Chromium	.002	.001	mg/l	.001	218.2
Dissolved Oxygen	8.2	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	2.4	.5	mg/l	.1	350.2
Total Nickel	ND	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	ND	.01	mg/l	.01	420.1
Total Dissolved Solids	796	1	mg/l	1	160.1
Kjeldahl Nitrogen	2.9	1	mg/l	1	351.3
Total Organic Carbon	13	1	mg/l	1	415.1
Total Suspended Solids	13	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.006	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.003	.001	mg/l	.001	220.2
Total Iron	7.23	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	.021	.009	mg/l	.009	200.7
Total Magnesium	31.9	.03	mg/l	.03	200.7
Total Manganese	.46	.002	mg/l	.002	200.7
Total Molybdenum	.015	.008	mg/l	.008	200.7
pH	7.3	.1	Units	.1	150.1
Total Lead	.002	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	ND	.05	mg/l	.05	200.7

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-8 (Project)

Description : #114 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4404

General Motors Corporation

Sample #: L8020-8 (Project)

Description : #114 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
4-Chloro-3-methylphenol	ND	1	ug/l	3	8270
2-Chlorophenol	ND	1	ug/l	3	8270
2,4-Dichlorophenol	ND	1	ug/l	3	8270
2,6-Dichlorophenol	ND	1	ug/l	3	8270
2,4-Dimethylphenol	37	1	ug/l	3	8270
2-Methylphenol	14	1	ug/l	3	8270
3&4-Methylphenol	42	1	ug/l	3	8270
2-Nitrophenol	ND	1	ug/l	3	8270
4-Nitrophenol	ND	1	ug/l	3	8270
Pentachlorophenol	ND	1	ug/l	3	8270
Phenol	56	1	ug/l	3	8270
2,3,4,6-Tetrachlorophenol	ND	1	ug/l	3	8270
2,4,5-Trichlorophenol	ND	1	ug/l	3	8270
2,4,6-Trichlorophenol	ND	1	ug/l	3	8270
Acenaphthene	ND	1	ug/l	3	8270
[illegible]naphthylene	ND	1	ug/l	3	8270
[illegible]thracene	ND	1	ug/l	3	8270
Benzidine	ND	1	ug/l	3	8270
Benzo(a)anthracene	ND	1	ug/l	3	8270
Benzo(b+k)fluoranthene	ND	1	ug/l	3	8270
Benzo(ghi)perylene	ND	1	ug/l	3	8270
Benzo(a)pyrene	ND	1	ug/l	3	8270
Benzyl alcohol	ND	1	ug/l	3	8270
Bis(2-Chlorethoxy)methane	ND	1	ug/l	3	8270
Bis(2-Chloroethyl)ether	ND	1	ug/l	3	8270
Bis(2-Chloroisopropyl)ether	ND	1	ug/l	3	8270
Bis(2-Ethylhexyl)phthalate	ND	1	ug/l	3	8270
4-Bromophenyl phenyl ether	ND	1	ug/l	3	8270
Butyl benzyl phthalate	ND	1	ug/l	3	8270
4-Chloroaniline	ND	1	ug/l	3	8270
2-Chloronaphthalene	ND	1	ug/l	3	8270
4-Chlorophenyl phenyl ether	ND	1	ug/l	3	8270
Dibenzo(a,h)anthracene	ND	1	ug/l	3	8270
Dibenzofuran	ND	1	ug/l	3	8270
Chrysene	ND	1	ug/l	3	8270
Di-n-butyl phthalate	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-8 (Project)

Description : #114 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PURGEABLE HALOCARBONS (LL)					
Bromodichloromethane	ND	1	ug/l	1	601
Bromoform	ND	1	ug/l	1	601
Bromomethane	ND	1	ug/l	1	601
Carbon Tetrachloride	ND	1	ug/l	1	601
Chlorobenzene	ND	1	ug/l	1	601
Chloroethane	ND	1	ug/l	1	601
2-Chloroethylvinyl ether	ND	1	ug/l	1	601
Chloroform	ND	1	ug/l	1	601
Chloromethane	ND	1	ug/l	1	601
Dibromochloromethane	ND	1	ug/l	1	601
1,2-Dichlorobenzene	ND	1	ug/l	1	601
1,3-Dichlorobenzene	ND	1	ug/l	1	601
1,4-Dichlorobenzene	ND	1	ug/l	1	601
Dichlorodifluoromethane	ND	1	ug/l	1	601
1,1-Dichloroethane	1	1	ug/l	1	601
1,2-Dichloroethane	ND	1	ug/l	1	601
1,1-Dichloroethene	ND	1	ug/l	1	601
trans-1,2-Dichloroethene	ND	1	ug/l	1	601
1,2-Dichloropropane	ND	1	ug/l	1	601
cis-1,3-Dichloropropene	ND	1	ug/l	1	601
trans-1,3-Dichloropropene	ND	1	ug/l	1	601
Methylene chloride	ND	1	ug/l	1	601
1,1,2,2-Tetrachloroethane	ND	1	ug/l	1	601
Tetrachloroethene	ND	1	ug/l	1	601
1,1,1-Trichloroethane	ND	1	ug/l	1	601
1,1,2-Trichloroethane	ND	1	ug/l	1	601
Trichloroethene	ND	1	ug/l	1	601
Trichlorofluoromethane	ND	1	ug/l	1	601
Vinyl chloride	ND	1	ug/l	1	601
SEMIVOLATILES					
Benzoic Acid	ND	10	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-8 (Project)

Description : #114 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Antimony	.009	.001	mg/l	.001	204.2
Chloride	470	3	mg/l	1	325.3
Chemical Oxygen Demand	300	50	mg/l	50	410.1
Total Chromium	.002	.001	mg/l	.001	218.2
Dissolved Oxygen	7.4	1	mg/l	1	360.1
Oil & Grease	ND	1	mg/l	1	413.1
Ammonia Nitrogen	51	1	mg/l	1	350.2
Total Nickel	.009	.002	mg/l	.002	249.2
PCB-1016	ND	.2	ug/l	.2	608
PCB-1221	ND	.2	ug/l	.2	608
PCB-1232	ND	.2	ug/l	.2	608
PCB-1242	ND	.2	ug/l	.2	608
PCB-1248	ND	.2	ug/l	.2	608
PCB-1254	ND	.2	ug/l	.2	608
PCB-1260	ND	.2	ug/l	.2	608
Phenols	.44	.1	mg/l	.01	420.1
Total Dissolved Solids	699	1	mg/l	1	160.1
Kjeldahl Nitrogen	133	1	mg/l	1	351.3
Total Organic Carbon	27	1	mg/l	1	415.1
Total Suspended Solids	7	1	mg/l	1	160.2
Total Silver	ND	.0005	mg/l	.0005	272.2
Total Arsenic	.072	.001	mg/l	.001	206.2
Total Cadmium	ND	.0002	mg/l	.0002	213.2
Total Cobalt	ND	.006	mg/l	.006	200.7
Total Copper	.005	.001	mg/l	.001	220.2
Total Iron	.603	.05	mg/l	.05	200.7
Total Mercury	ND	.0005	mg/l	.0005	245.1
Total Lithium	ND	.009	mg/l	.009	200.7
Total Magnesium	.86	.03	mg/l	.03	200.7
Total Manganese	.01	.002	mg/l	.002	200.7
Total Molybdenum	.1	.008	mg/l	.008	200.7
pH	10.1	.1	Units	.1	150.1
Total Lead	.002	.001	mg/l	.001	239.2
Total Selenium	ND	.002	mg/l	.002	270.2
Total Zinc	.157	.05	mg/l	.05	200.7

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 (800) 477-6666 FAX (810) 477-4604

General Motors Corporation

Sample #: L8020-6 (Project)

Description : #111 SUB. DRAIN

Collected: 06-DEC-93 Matrix: Water Submitted: 06-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
1,3-Dichlorobenzene	ND	1	ug/l	3	8270
1,4-Dichlorobenzene	ND	1	ug/l	3	8270
1,2-Dichlorobenzene	ND	1	ug/l	3	8270
3,3'-Dichlorobenzidine	ND	1	ug/l	3	8270
3,4-Benzofluoranthene	ND	1	ug/l	3	8270
Diethyl phthalate	ND	1	ug/l	3	8270
Dimethyl phthalate	ND	1	ug/l	3	8270
2,4-Dinitrotoluene	ND	1	ug/l	3	8270
2,6-Dinitrotoluene	ND	1	ug/l	3	8270
Di-n-octyl phthalate	ND	1	ug/l	3	8270
1,2-Diphenylhydrazine	ND	1	ug/l	3	8270
Fluoranthene	ND	1	ug/l	3	8270
Fluorene	ND	1	ug/l	3	8270
Hexachlorobenzene	ND	1	ug/l	3	8270
Hexachlorobutadiene	ND	1	ug/l	3	8270
Hexachlorocyclopentadiene	ND	1	ug/l	3	8270
Hexachloroethane	ND	1	ug/l	3	8270
Indeno(1,2,3-cd)pyrene	ND	1	ug/l	3	8270
Isophorone	ND	1	ug/l	3	8270
2-Methylnaphthalene	ND	1	ug/l	3	8270
Naphthalene	ND	1	ug/l	3	8270
2-Nitroaniline	ND	1	ug/l	3	8270
3-Nitroaniline	ND	1	ug/l	3	8270
4-Nitroaniline	ND	1	ug/l	3	8270
Nitrobenzene	ND	1	ug/l	3	8270
n-Nitrosodimethylamine	ND	1	ug/l	3	8270
n-Nitrosodipropylamine	ND	1	ug/l	3	8270
n-Nitrosodiphenylamine	ND	1	ug/l	3	8270
Phenanthrene	ND	1	ug/l	3	8270
Pyrene	ND	1	ug/l	3	8270
1,2,4-Trichlorobenzene	ND	1	ug/l	3	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 (810) 477-6666 FAX (810) 477-4604

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40072 REPORT DATE: 07/20/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 8-9'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	6.2*	mg/kg dry wt.

PCB's identified as Aroclor 1260. Therefore, quantitation of other Aroclor's is Not Applicable.
* Sample reanalyzed and Aroclor 1260 confirmed in sample at a concentration of 3.5 mg/kg.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40074 REPORT DATE: 07/20/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 10-11'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	3.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

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RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41094
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/14/89
COLLECTION DATE: 07/25/89
STATION ID: B-N 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41095
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/14/89
COLLECTION DATE: 07/25/89
STATION ID: B-N 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41101
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-O 11-12'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<10.0	mg/kg dry wt.
AROCLOR - 1221	<10.0	mg/kg dry wt.
AROCLOR - 1232	<10.0	mg/kg dry wt.
AROCLOR - 1242	<10.0	mg/kg dry wt.
AROCLOR - 1248	<10.0	mg/kg dry wt.
AROCLOR - 1254	<10.0	mg/kg dry wt.
AROCLOR - 1260	<10.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41100
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-O 10-11'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41099 REPORT DATE: 08/03/89
PROJECT #: 01125.30 COLLECTION DATE: 07/25/89
WORK ORDER #: 072789-0112530 STATION ID: B-O 9-10'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41098 REPORT DATE: 08/03/89
PROJECT #: 01125.30 COLLECTION DATE: 07/25/89
WORK ORDER #: 072789-0112530 STATION ID: B-O 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41097
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-O 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41093
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-M 12-13'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41092
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-M 11-12'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41091 REPORT DATE: 08/03/89
PROJECT #: 01125.30 COLLECTION DATE: 07/25/89
WORK ORDER #: 072789-0112530 STATION ID: B-M 10-11'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	2.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41090
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-M 9-10'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	1.7	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41089
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-M 8-9'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	1.4	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 41088
PROJECT #: 01125.30
WORK ORDER #: 072789-0112530
REPORT DATE: 08/03/89
COLLECTION DATE: 07/25/89
STATION ID: B-M 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40225
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H RINSATE
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	ug/l
AROCLOR - 1221	<1.0	ug/l
AROCLOR - 1232	<1.0	ug/l
AROCLOR - 1242	<1.0	ug/l
AROCLOR - 1248	<1.0	ug/l
AROCLOR - 1254	<1.0	ug/l
AROCLOR - 1260	<1.0	ug/l

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40222 REPORT DATE: 07/10/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3H 7-8' REP
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0*	mg/kg dry wt.
AROCLOR - 1221	<5.0*	mg/kg dry wt.
AROCLOR - 1232	<5.0*	mg/kg dry wt.
AROCLOR - 1242	<5.0*	mg/kg dry wt.
AROCLOR - 1248	<5.0*	mg/kg dry wt.
AROCLOR - 1254	<5.0*	mg/kg dry wt.
AROCLOR - 1260	<5.0*	mg/kg dry wt.

* Detection limits raised due to interferring peaks.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40221
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0*	mg/kg dry wt.
AROCLOR - 1221	<5.0*	mg/kg dry wt.
AROCLOR - 1232	<5.0*	mg/kg dry wt.
AROCLOR - 1242	<5.0*	mg/kg dry wt.
AROCLOR - 1248	<5.0*	mg/kg dry wt.
AROCLOR - 1254	<5.0*	mg/kg dry wt.
AROCLOR - 1260	<5.0*	mg/kg dry wt.

* Detection limits raised due to interferring peaks.

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40220
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0*	mg/kg dry wt.
AROCLOR - 1221	<5.0*	mg/kg dry wt.
AROCLOR - 1232	<5.0*	mg/kg dry wt.
AROCLOR - 1242	<5.0*	mg/kg dry wt.
AROCLOR - 1248	<5.0*	mg/kg dry wt.
AROCLOR - 1254	<5.0*	mg/kg dry wt.
AROCLOR - 1260	<5.0*	mg/kg dry wt.

* Detection limits raised due to interferring peaks.

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40219
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H 4-5'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	159.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40215
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40214
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/10/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<10.0*	mg/kg dry wt.
AROCLOR - 1221	<10.0*	mg/kg dry wt.
AROCLOR - 1232	<10.0*	mg/kg dry wt.
AROCLOR - 1242	<10.0*	mg/kg dry wt.
AROCLOR - 1248	<10.0*	mg/kg dry wt.
AROCLOR - 1254	<10.0*	mg/kg dry wt.
AROCLOR - 1260	<10.0*	mg/kg dry wt.

* Detection limits raised due to interferring peaks.

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40213 REPORT DATE: 07/10/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3D 4-5'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	38.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40099
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/05/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0	mg/kg dry wt.
AROCLOR - 1221	<5.0	mg/kg dry wt.
AROCLOR - 1232	<5.0	mg/kg dry wt.
AROCLOR - 1242	<5.0	mg/kg dry wt.
AROCLOR - 1248	<5.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40098 REPORT DATE: 07/05/89
PROJECT #: 01125.30 COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530 STATION ID: BH3E 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<2.0	mg/kg dry wt.
AROCLOR - 1221	<2.0	mg/kg dry wt.
AROCLOR - 1232	<2.0	mg/kg dry wt.
AROCLOR - 1242	<2.0	mg/kg dry wt.
AROCLOR - 1248	<2.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40097 REPORT DATE: 07/05/89
PROJECT #: 01125.30 COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530 STATION ID: BH3E 4-5'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	4.6	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40095
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/05/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40094
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/05/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0	mg/kg dry wt.
AROCLOR - 1221	<5.0	mg/kg dry wt.
AROCLOR - 1232	<5.0	mg/kg dry wt.
AROCLOR - 1242	<5.0	mg/kg dry wt.
AROCLOR - 1248	<5.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40093 REPORT DATE: 07/05/89
PROJECT #: 01125.30 COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530 STATION ID: BH3A 5-6'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<5.0	mg/kg dry wt.
AROCLOR - 1221	<5.0	mg/kg dry wt.
AROCLOR - 1232	<5.0	mg/kg dry wt.
AROCLOR - 1242	<5.0	mg/kg dry wt.
AROCLOR - 1248	<5.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40092
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 07/05/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 4-5'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<2.0	mg/kg dry wt.
AROCLOR - 1221	<2.0	mg/kg dry wt.
AROCLOR - 1232	<2.0	mg/kg dry wt.
AROCLOR - 1242	<2.0	mg/kg dry wt.
AROCLOR - 1248	<2.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40080
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 8-9'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<2.0	mg/kg dry wt.
AROCLOR - 1221	<2.0	mg/kg dry wt.
AROCLOR - 1232	<2.0	mg/kg dry wt.
AROCLOR - 1242	<2.0	mg/kg dry wt.
AROCLOR - 1248	<2.0	mg/kg dry wt.
AROCLOR - 1254	<2.0	mg/kg dry wt.
AROCLOR - 1260	<2.0	mg/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40079
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 7-8'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40078
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 6-7'
SAMPLE COLLECTOR: CC

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<1.0	mg/kg dry wt.
AROCLOR - 1221	<1.0	mg/kg dry wt.
AROCLOR - 1232	<1.0	mg/kg dry wt.
AROCLOR - 1242	<1.0	mg/kg dry wt.
AROCLOR - 1248	<1.0	mg/kg dry wt.
AROCLOR - 1254	<1.0	mg/kg dry wt.
AROCLOR - 1260	<1.0	mg/kg dry wt.

Kenneth C. Brunner, Operations Manager

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LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40077
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 07/03/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 5-6'
SAMPLE COLLECTOR: CC

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	N/A	mg/kg dry wt.
AROCLOR - 1254	N/A	mg/kg dry wt.
AROCLOR - 1260	1.0	mg/kg dry wt.

PCB'S identified as Aroclor 1260. Therefore, quantitation of other Aroclors is Not Applicable.

Kenneth C Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40221 REPORT DATE: 07/07/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3H 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	2.0	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering stoddard solvent peaks.
Less than or equal to 2.6

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40220
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3H 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	4.4	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40219 REPORT DATE: 08/09/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3H 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	7000	ug/kg dry wt.
BENZENE	250	ug/kg dry wt.
TOLUENE	220*	ug/kg dry wt.
XYLENES	2800*	ug/kg dry wt.

* Subsequent analysis by GC/MS resulted in quantitation of xylene and toluene. Report revised & reissued: 08/09/89.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40219 REPORT DATE: 07/07/89
PROJECT #: 01125.30 COLLECTION DATE: 06/26/89
WORK ORDER #: 062789-0112530 STATION ID: BH3H 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	7000	ug/kg dry wt.
BENZENE	250	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	LTE*	ug/kg dry wt.

* Interfering stoddard solvent peaks. Toluene less than or equal to 680. Xylenes less than or equal to 5100.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40218
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 9-10'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40217
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	2.1	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40216
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering stoddard solvent peaks.
Less than or equal to 2.1

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40214
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	0.84	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	3.6	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40213
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 08/09/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	13000	ug/kg dry wt.
BENZENE	<1000	ug/kg dry wt.
TOLUENE	<1000	ug/kg dry wt.
XYLENES	3400*	ug/kg dry wt.

* Subsequent analysis by GC/MS resulted in quantitation of xylene. Report revised & reissued: 08/09/89.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40213
PROJECT #: 01125.30
WORK ORDER #: 062789-0112530
REPORT DATE: 07/07/89
COLLECTION DATE: 06/26/89
STATION ID: BH3D 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	13000	ug/kg dry wt.
BENZENE	<1000	ug/kg dry wt.
TOLUENE	<1000	ug/kg dry wt.
XYLENES	LTE*	ug/kg dry wt.

* Interfering stoddard solvent peaks.
Less than or equal to 8700.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40106
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 11-12'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40102
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 10-11'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	1.4	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40101
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 9-10'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	35	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40100
REPORT DATE: 06/30/89
PROJECT #: 01125.30
COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530
STATION ID: BH3E 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40099
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 6-7'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40098
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3E 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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LABORATORIES

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40097 REPORT DATE: 06/30/89
PROJECT #: 01125.30 COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530 STATION ID: BH3E 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	260	ug/kg dry wt.
BENZENE	<50	ug/kg dry wt.
TOLUENE	350	ug/kg dry wt.
XYLENES	LTE	ug/kg dry wt.

Less than or equal to 3000

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40096
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40095 REPORT DATE: 06/30/89
PROJECT #: 01125.30 COLLECTION DATE: 06/23/89
WORK ORDER #: 062489-0112530 STATION ID: BH3A 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	0.80	ug/kg dry wt.
BENZENE	3.4	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering peak
Less than or equal to

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40094
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 6-7'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	7.1	ug/kg dry wt.
BENZENE	2.4	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering peak
Less than or equal to 6.3

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40093
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	3.7	ug/kg dry wt.
BENZENE	1.9	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering peak
Less than or equal to 4.5.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40092
PROJECT #: 01125.30
WORK ORDER #: 062489-0112530
REPORT DATE: 06/30/89
COLLECTION DATE: 06/23/89
STATION ID: BH3A 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	3.7	ug/kg dry wt.
TOLUENE	LTE*	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

* Interfering peak
Less than or equal to 10.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40081
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 9-10'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40080
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40079
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	1.6	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40078
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BH3C 6-7'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40077 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BH3C 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40076 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BH3C 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40075 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 11-12'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40073 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 9-10'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40072 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40071
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40070
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 6-7'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40069
PROJECT #: 01125.30
WORK ORDER #: 062389-0112530
REPORT DATE: 06/27/89
COLLECTION DATE: 06/22/89
STATION ID: BHK 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40068 REPORT DATE: 06/27/89
PROJECT #: 01125.30 COLLECTION DATE: 06/22/89
WORK ORDER #: 062389-0112530 STATION ID: BHK 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Alan Doughty, Ph.D., Laboratory Director

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40043 REPORT DATE: 06/29/89
PROJECT #: 01125.30 COLLECTION DATE: 06/21/89
WORK ORDER #: 062289-A112530 STATION ID: B-L 15-16'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40042
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 11-12'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40041
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 10-11'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40040
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 9-10'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner, Operations Manager

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page: 1 of 1

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40039 REPORT DATE: 06/29/89
PROJECT #: 01125.30 COLLECTION DATE: 06/21/89
WORK ORDER #: 062289-A112530 STATION ID: B-L 8-9'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40038 REPORT DATE: 06/29/89
PROJECT #: 01125.30 COLLECTION DATE: 06/21/89
WORK ORDER #: 062289-A112530 STATION ID: B-L 7-8'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40037
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 6-7'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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RMT INC.
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CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40035
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 4-5'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner, Operations Manager

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APPENDIX B

BTEX LABORATORY RESULTS

RMT INC.
LABORATORIES

CLIENT: GMC CFD SAGINAW NODULAR IRON
SAMPLE #: 40036
PROJECT #: 01125.30
WORK ORDER #: 062289-A112530
REPORT DATE: 06/29/89
COLLECTION DATE: 06/21/89
STATION ID: B-L 5-6'
SAMPLE COLLECTOR: CC

VOLATILE ORGANIC COMPOUNDS ANALYSIS REPORT

PARAMETER	RESULT	UNITS
CHLOROBENZENE	<0.50	ug/kg dry wt.
BENZENE	<1.0	ug/kg dry wt.
TOLUENE	<1.0	ug/kg dry wt.
XYLENES	<3.0	ug/kg dry wt.

Kenneth C. Brunner
Kenneth C. Brunner, Operations Manager

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Appendix 12.6
Available Laboratory Analytical Data
Former Nodular Iron Core Sand

Waste Charaterization Study of Foundry Process Solid Wastes

January 1984

Revised February 1984

Residuals Management Technology, Inc.

1406 East Washington Avenue
Suite 124
Madison, Wisconsin 53703
(608) 255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
SAGINAW NODULAR AND GREY IRON
CASTING PLANTS

January 1984

Revised February 1984

Dennis E. Strutz
Environmental Specialist

William A. Stephens, P.E.
Manager, Engineering

Thomas P. Kunes, P.E.
Executive Vice President

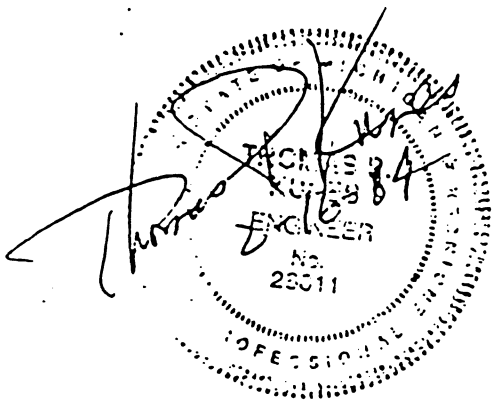


TABLE II
ASTM LEACHING TEST RESULTS ON WASTES
INERT FOR DISPOSAL AT SPECIFIC SITES

PARAMETER[1]	DRINKING WATER STANDARDS	METALS RECLAMATION RESIDUALS PILE	GREY IRON CORE WASTE COMPOSITE (ISO, OIL, SHELL, & HOT)	NODULAR IRON CORE WASTE COMPOSITE	CLASSIFIED SAND PILE	COMPOSITE CORES CLASSIFIED SAND, METALS RECLAMATION RESIDUALS
Arsenic	0.05[2]	0.059	< 0.001	0.002	0.001	0.024
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	1.4 - 2.4[2]	5.3	< 0.1	< 0.1	8.9	5.9
Lead	0.05[2]	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	< 0.001	< 0.002	< 0.001	0.001	< 0.001
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	< 0.01	0.01	< 0.01	< 0.01	< 0.01
pH	6.5 - 8.5[3]	11.2	6.4	7.9	9.8	11.5
Phenols	3.5[4]	0.165	0.270	48.4	< 0.025	1.3

(D130)

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 19[illegible]e 79331.

Waste Charaterization Study of Foundry Process Solid Wastes
January 1986

RIN 758-94

FEBRUARY 14 1994

RMT INC.

NUD-17
NUD-18
NUD-6
NUD-7
NUD-14?

WASTE CHARACTERIZATION STUDY OF FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

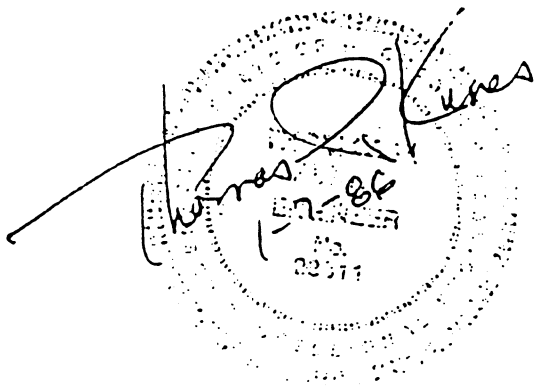
NODULAR IRON CASTING PLANT
SAGINAW MICHIGAN

JANUARY 1986

James E. Vondracek
Project Engineer

William A. Stephens, P.E.
Manager of Engineering

Thomas P. Kunes, P.E.
Executive Vice President



129.04 926:RPTa:Saginaw

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14, 1994

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

PROJECT #: 129.02

P.O. #: 8260

SAMPLE #: 9788

SAMPLE DESCRIPTION: Nodular Iron Cores Composite--#23 Waste Shell Cores, #24 Waste Hot Box Cores, and #22 Waste Oil Sand Cores (2/4-8/85)

COMPOSITIONAL ANALYSIS

PARAMETER	CONCENTRATION	UNITS
TOTAL PCB'S	< 0.1	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

USEPA FOIA REQUEST
RI 2-18-94

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

PROJECT #: 129.04

P.O. #: 8260

SAMPLE #S: 9788

SAMPLE DESCRIPTION: Nodular Iron Cores Composite - #23 Waste Shell Cores, #24 Waste Hot Box Cores, and #22 Waste Oil Sand Cores (2/4-8/85)

ASTM LEACH TEST

PARAMETER	RESULT	UNITS
Arsenic	< 0.001	mg/l
Barium	< 0.2	mg/l
Cadmium	< 0.01	mg/l
Chromium, Total	< 0.05	mg/l
COD	662	mg/l
Copper	0.05	mg/l
Cyanide, Total	< 0.02	mg/l
Fluoride	< 0.1	mg/l
Lead	0.2	mg/l
Mercury	< 0.0002	mg/l
pH	7.0	pH Units
Phenols	19.1	mg/l
Selenium	< 0.001	mg/l
Silver	< 0.02	mg/l
TOC	233	mg/l
Zinc	0.19	mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

USEPA FOIA REQUEST
RIN 768-94
FEBRUARY 14 1994

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw DATE: 4/2/85

PROJECT #: 129.04 P.O. #: 8260

SAMPLE #: 9788

SAMPLE DESCRIPTION: Nodular Iron Cores Composite - #23 Waste Shell Cores, #24 Waste Hot Box Cores, and #22 Waste Oil Sand Cores (2/4-8/85)

EP TOXICITY TEST

WEIGHT USED: 100.2 grs. INITIAL PH: 5.7 FINAL PH: 5.1 ACID USED: 5 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	< 0.2	100.0 mg/l
CADMIUM	< 0.01	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0 mg/l
LEAD	0.2	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.001	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	0.02	100.0 mg/l
CYANIDE	< 0.02	20.0 mg/l
ZINC	0.37	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

Appendix 12.7
Available Laboratory Analytical Data
Oil House North UST - N.I. #1

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43875
Client I.D.:	E87-2693-19 Regular Gasoline Tank @ Oil House West End 8-30-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	79
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.05
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 4 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/2L

Susan K. Scott
Laboratory Supervisor

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Bierlein Environmental Services
2903 South Graham
Saginaw, MI 48603
Attn: Stanley Baker

September 20, 1988

Follow-up Report

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43874
Client I.D.:	E87-2693-18 Regular Gasoline Tank @ Oil House East End
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	86
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02
Nickel, Ni, mg/l	0.08
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 2 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/1L

Susan K. Scott
Laboratory Supervisor

Appendix 12.8
Available Laboratory Analytical Data
Nodular Gasoline UST - N.I. #2

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number:	41743
Client I.D.:	E87-2693-10 #2 No Lead Gas West End 7-15-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	94
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 5 mls of 0.5 N acetic acid was 5.0.

WA/11c

Susan K. Scott
Laboratory Supervisor

Burman

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number: 41744

Client I.D.: E87-2693-11
#2 No Lead Gas
East End
7-15-88

Physical Description: 100% Soil

As Received:

Total Solids @ 104°C, %	94
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 6 mls of 0.5 N acetic acid was 5.0.

WA/12c

Susan K. Scott
Laboratory Supervisor

Appendix 12.9
Available Laboratory Analytical Data
Oil House South USTs - N.I. #3, #4, #5, #6

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43880
Client I.D.:	E87-2693-24 Soil Behind Oil House North
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	89
Oil & Grease, mg/kg	350
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 18 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/7L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43879
Client I.D.:	E87-2693-23 Soil Behind Oil House South 9-1-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	91
Oil & Grease, mg/kg	350
Volatile Organic Analysis:	
Xylenes, mg/kg	40-45

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	<0.02
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 16 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/6L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43878
Client I.D.:	E87-2693-22 Soil Behind Oil House West
Physical Description:	100% Soil

As Received

Total Solids @ 104°C, %	88
Oil & Grease, mg/kg	410
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 13 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/5L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43877
Client I.D.:	E87-2693-21 Soil Behind Oil House Southwest 9-1-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	93
Oil & Grease, mg/kg	390
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 13 mls of 0.5 N acetic acid, the final pH was 5.0.

WA/4L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number: 43876

Client I.D.: E87-2693-20
Soil Behind
Oil House
East End
9-1-88
100% Soil

Physical Description

As Received:

Total Solids @ 104°C, %	90
Oil & Grease, mg/kg	170
Volatile Organic Analysis:	
Xylenes, mg/kg	25-30

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.001
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 9 mls of 0.5 N acetic acid, the final pH was 4.9.

WA/3L

Susan K. Scott
Laboratory Supervisor

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Bierlein Environmental Service
2903 S. Graham Road
Saginaw, MI 48603
Attn: Stanley Baker

October 26, 1988

Proj.# E87-2693

PROJECT: CENTRAL FOUNDRY DIV.

PROGRAM: Nodular Iron Tank Removal

Date Received: 10-14-88

ALP Number: 46343

Client I.D.: E87-2693-35

Benzene, ug/l	<2
Toluene, ug/l	<2
Xylenes, ug/l	<2

Water in pit behind oil house

Susan K. Scott
Laboratory Supervisor

Misc/1L

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43890
Client I.D.:	E87-2693-34 Air Line Lube Oil Tank East End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 103°C, %	84
Oil & Grease, mg/kg	2400
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.06
Nickel, Ni, mg/l	0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 43 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/17L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number: 43888

Client I.D.: E87-2693-32
Air Line Lube
Oil Tank
West End

Physical Description: 100% Soil

As Received:

Total Solids @ 104°C, %	82
Oil & Grease, mg/kg	110
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.20
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.06
Nickel, Ni, mg/l	0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 80 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/15L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43889
Client I.D.:	E87-2693-33 South Pattern Spray Tank East End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	89
Oil & Grease, mg/kg	4700
Volatile Organic Analysis:	
Ethyl Benzene, mg/kg	10-15
Xylenes, mg/kg	30-35

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.15
Cadmium, Cd, mg/l	<0.02
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.08
Nickel, Ni, mg/l	<0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 70 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/16L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number: 43882

Client I.D.: E87-2693-26
South Pattern
Spray Tank
West End
9-2-88

Physical Description: Wet Soil

As Received:

Total Solids @ 104°C, %	90
Oil & Grease, mg/kg	5400
Volaitle Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.12
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.10
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	0.05

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 80 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/9L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43885
Client I.D.:	E87-2693-29 North Pattern Spray Tank West End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 103°C, %	[illegible]
Oil & Grease, mg/kg	350
Volatile Ogranic Analysis:	
Xylenes, mg/kg	25-30

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.25
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.05
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 140 mls of 0.5 N acetic acid, the final pH was 5.0.

WA/12L

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43883
Client I.D.:	E87-2693-27 North Pattern Spray Tank Front End
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	86
Oil & Grease, mg/kg	430
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.20
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	0.02
Zinc, Zn, mg/l	0.15
Nickel, Ni, mg/l	0.02
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 100 mls of 0.5 N acetic acid, the final pH was 5.0.

WA/10L

Susan K. Scott
Laboratory Supervisor

WASTE COMPLIANCE SERVICES

12255 Wormer • Redford, Michigan 48239 • 313-255-9600

RESULTS: Expressed in mg/kg (ppm) on the sample labeled:
CFNI #001 (S-11429).

PARAMETER	SAMPLE RESULT	DETECTION LIMIT
Bromodichloromethane	N.D.	4.0
Bromoform	N.D.	5.0
Bromomethane	N.D.	4.0
Carbon Tetrachloride	N.D.	4.0
Chlorobenzene	N.D.	0.10
Chloroethane	N.D.	1.0
2-Chloroethylvinyl Ether	N.D.	2.5
Chloroform	N.D.	2.0
Chloromethane	N.D.	2.5
[illegible]	[illegible]	[illegible].0
[illegible]	[illegible].D.	0.2
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	5.0
1,1-Dichloroethane	N.D.	1.0
1,2-Dichloroethane	N.D.	1.0
1,1-Dichloroethene	N.D.	1.0
Trans-1,2-Dichloroethene	N.D.	1.0
1,2-Dichloropropane	N.D.	1.0
Cis-1,3-Dichloropropene	N.D.	1.0
Trans-1,3-Dichloropropene	N.D.	1.0
Methylene Chloride	N.D.	2.0
1,1,2,2-Tetrachloroethane	N.D.	1.0
Tetrachloroethene	N.D.	1.0
1,1,1-Trichloroethane	N.D.	1.0
1,1,2-Trichloroethane	N.D.	1.0
Trichloroethene	N.D.	1.0
Trichlorofluoromethane	N.D.	4.0
Vinyl Chloride	N.D.	2.5
Benzene	N.D.	1.0
Toluene	N.D.	1.0
Ethylbenzene	N.D.	1.0

WASTE COMPLIANCE SERVICES

Analysis by Vishu Peketi

Vishu Peketi
Chemist

WASTE COMPLIANCE SERVICES

Specialists in Industrial Waste Analysis

12255 WORMER • REDFORD, MI 48239 • (313) 255-9600

REPORT OF ANALYSIS

August 31, 1988

SAMPLE SUBMITTED BY:	Bierlein Environmental
	ATTN: STAN BAKER
DATE RECEIVED:	August 23, 1988
PROJECT NUMBER:	P-4275
	[illegible] Cu and Zn analysis on the EP Extract.
METHOD OF ANALYSIS:	EPA test procedures, Federal Register Vol. 45 Part 261
RESULTS:	Expressed in ug/ml (ppm) on the sample labeled: CFNI - 001 (S-11429)

EPA HAZARDOUS WASTE NUMBER	CONTAMINANT	EP TOXIC LEVELS	SAMPLE RESULT (EXTRACT)
D004	Arsenic-As	5	< 0.050
D005	Barium-Ba	100	< 0.02
D006	Cadmium-Cd	1	< 0.003
D007	Chromium-Cr	5	0.020
D008	Lead-Pb	5	< 0.050
D009	Mercury-Hg	0.2	< 0.002
D010	Selenium-Se	1	< 0.050
D011	Silver-Ag	5	< 0.003
001D	Copper-Cu	100	0.020
003D	Zinc-Zn	500	0.040

1. Ignitability -- Non-ignitable (Flash Point: Greater than 140°F)
2. Reactivity ---- Non-reactive
   Total Available Cyanide: < 1.0 mg/kg
   Total Available Sulfide: < 2.0 mg/kg
3. Corrosivity --- Non-corrosive
4. pH -- 7.7

WASTE COMPLIANCE SERVICES

Analysis by Vishu Peketi

Vishu Peketi
Chemist

WASTE COMPLIANCE SERVICES

Specialists in Industrial Waste Analysis

12255 WORMER • REDFORD, MI 48239 • (313) 255-9600

REPORT OF ANALYSIS

August 31, 1988

SAMPLE SUBMITTED BY: Bierlein Environmental

ATTN: STAN BAKER

DATE RECEIVED: August 23, 1988

PROJECT NUMBER: P-4275

ANALYSIS REQUESTED: Extractable oil and grease analysis.

METHOD OF ANALYSIS: EPA test procedures.

RESULTS: Expressed in mg/kg (ppm).

CUSTOMER I.D.	WCS I.D.	PARAMETER	SAMPLE RESULT	DETECTION LIMIT
CFNI #001	S-11429	Extractable oil & grease	< 10	10
CFNI #002	S-11430	Extractable oil & grease	< 10	10

WASTE COMPLIANCE SERVICES

Analysis by Vishu Peketi

Vishu Peketi

Chemist

WASTE COMPLIANCE SERVICES

12255 Wormer • Redford, Michigan 48239 • 313-255-9600

RESULTS: Expressed in mg/kg (ppm) on the sample labeled:
CFNI #002 (S-11430).

PARAMETER	SAMPLE RESULT	DETECTION LIMIT
Bromodichloromethane	N.D.	4.0
Bromoform	N.D.	5.0
Bromomethane	N.D.	4.0
Carbon Tetrachloride	N.D.	4.0
Chlorobenzene	N.D.	0.10
Chloroethane	N.D.	1.0
2-Chloroethylvinyl Ether	N.D.	2.5
Chloroform	N.D.	2.0
Chloromethane	N.D.	2.5
[illegible]	[illegible]	4.0
[illegible]	[illegible]	[illegible]
1,3-Dichlorobenzene	N.D.	0.2
1,4-Dichlorobenzene	N.D.	0.2
Dichlorodifluoromethane	N.D.	5.0
1,1-Dichloroethane	N.D.	1.0
1,2-Dichloroethane	N.D.	1.0
1,1-Dichloroethene	N.D.	1.0
Trans-1,2-Dichloroethene	N.D.	1.0
1,2-Dichloropropane	N.D.	1.0
Cis-1,3-Dichloropropene	N.D.	1.0
Trans-1,3-Dichloropropene	N.D.	1.0
Methylene Chloride	N.D.	2.0
1,1,2,2-Tetrachloroethane	N.D.	1.0
Tetrachloroethene	N.D.	1.0
1,1,1-Trichloroethane	N.D.	1.0
1,1,2-Trichloroethane	N.D.	1.0
Trichloroethene	N.D.	1.0
Trichlorofluoromethane	N.D.	4.0
Vinyl Chloride	N.D.	2.5
Benzene	N.D.	1.0
Toluene	N.D.	1.0
Ethylbenzene	N.D.	1.0

WASTE COMPLIANCE SERVICES
Analysis by Vishu Peketi
Vishu Peketi
Chemist

WASTE COMPLIANCE SERVICES

Specialists in Industrial Waste Analysis

12255 WORMER • REDFORD, MI 48239 • (313) 255-9600

REPORT OF ANALYSIS

August 31, 1988

SAMPLE SUBMITTED BY: Bierlein Environmental

ATTN: STAN BAKER

DATE RECEIVED: August 23, 1988

PROJECT NUMBER: P-4275

ANALYSIS REQUESTED: As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu and Zn

METHOD OF ANALYSIS: EPA test procedures, Federal Register Vol. 45 Part 261

RESULTS: Expressed in ug/ml (ppm) on the sample labeled: CFNI #002 (S-11430).

EPA HAZARDOUS WASTE NUMBER	CONTAMINANT	EP TOXIC LEVELS	SAMPLE RESULT (EXTRACT)
D004	Arsenic-As	5	< 0.050
D005	Barium-Ba	100	< 0.02
D006	Cadmium-Cd	1	<0.003
D007	Chromium-Cr	5	0.020
D008	Lead-Pb	5	<0.050
D009	Mercury-Hg	0.2	<0.002
D010	Selenium-Se	1	<0.050
D011	Silver-Ag	5	<0.003
001D	Copper-Cu	100	0.010
003D	Zinc-Zn	500	0.020

1. Ignitability -- Non-ignitable (Flash Point: Greater than 140°F)
2. Reactivity ---- Non-reactive
   Total Available Cyanide:< 1.0 mg/kg
   Total Available Sulfide:< 2.0 mg/kg
3. Corrosivity --- Non-corrosive
4. pH -- 7.8

WASTE COMPLIANCE SERVICES

Analysis by Vishu Peketi

Vishu Peketi
Chemist

WASTE COMPLIANCE SERVICES

Specialists in Industrial Waste Analysis

12255 WORMER • REDFORD, MI 48239 • (313) 255-9600

REPORT OF ANALYSIS

July 20, 1988

SAMPLE SUBMITTED BY: Bierlein Environmental, Inc.

ATTN: Stan Baker

DATE RECEIVED: July 15, 1988

PROJECT NUMBER: P-4195

ANALYSIS REQUESTED: PCB Analysis

RESULTS: Expressed in mg/kg (ppm)

CUSTOMER ID	WCS ID	TOTAL PCB RESULT	DETECTION LIMIT
Central Foundry Div. Nodular Iron Waste Oil Tank 7/13/88 Sample #E87-2693-1	S-11240	< 1.0	1.0
Central Foundry Div. Nodular Iron Fuel Oil Composite of 3 Tanks Sample #E87-2693-2	S-11241	< 1.0	1.0

WASTE COMPLIANCE SERVICES
Analysis by Vishu Peketi
Vishu Peketi
Chemist

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43884
Client I.D.:	E87-2693-28 Waste Oil Tank West End 9-2-88
Physical Description:	100% Soil

Total Solids @ 104°C, %	86
Oil & Grease, mg/kg	150
Volatile Organic Analysis:	No Compounds Detected
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.15
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.20
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 70 mls of 0.5 N acetic acid, the final pH was 5.1.

WA/11L

Susan K. Scott

Burmah

Bierlein Environmental Services
Attn: Stanley Baker

September 20, 1988

PROGRAM: CFD - SNI

Date Received: 9-2-88

ALD Number:	43881
Client I.D.:	E87-2693-25 Waste Oil Tank East End 9-2-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	82
Oil & Grease, mg/kg	1300
Volatile Organic Analysis:	No Compounds Detected

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.24
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.05
Nickel, Ni, mg/l	0.03
Cyanide, CN, mg/l	<0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. After the addition of 100 mls of 0.5 N acetic acid, the final pH was 5.0.

WA/8L

Susan K. Scott
Laboratory Supervisor

Appendix 12.10
Available Laboratory Analytical Data
Cooling Tower UST - N.I. #7

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number:	41741
Client I.D.:	E87-2693-8 #7 Fuel Oil East End 7-15-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	85
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.12
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.11

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 94 mls of 0.5 N acetic acid was 5.0.

WA/9c

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number:	41742
Client I.D.:	E87-2693-9 #7 Fuel Oil West End 7-15-88
[illegible]	Soil

As Received:

Total Solids @ 104°C, %	84
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.06
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 30 mls of 0.5 N acetic acid was 5.2.

WA/10c

Susan K. Scott
Laboratory Supervisor

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Bierlein Environmental Services
2903 South Graham
Saginaw, MI 48603
Attn: Stanley Baker

August 25, 1988

PROGRAM: CFD-SNI

Date Received: 8-10-88

ALD Number: 42556

Client I.D.: E87-2693-14
Diesel Fuel Tank near
Pump House
Ground Water

Physical Description: 100% Turbid Liquid

As Received:

Total Solids by Filtration, 0.45u, %	<0.01
Cyanide, CN, mg/kg	<1
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2
Arsenic, As, mg/kg	<0.4
Barium, Ba, mg/kg	<1.8
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	<0.7
Lead, Pb, mg/kg	<1.8
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7
Copper, Cu, mg/kg	0.7
Zinc, Zn, mg/kg	3.3
Nickel, Ni, mg/kg	<0.7

Sample contained less than 0.5% solids, therefore, a leachate would be inappropriate. Results are reported on sample as received.

WA/13a

Susan K. Scott

Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number: 41740

Client I.D.: E87-2693-7
Contaminated Soil
@ Tank Battery
Behind Oil House
7-15-88

Physical Description: 100% Soil

As Received:

Total Solids @ 104°C, %	99
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 8 mls of 0.5 N acetic acid was 4.9.

WA/8c

Susan K. Scott

Appendix 12.11
Available Laboratory Analytical Data
Oil House West UST - N.I. #8

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

SAGINAW NODULAR IRON

M.E.R.A. - ACT 307
PROPOSED DELISTING REQUEST
JANUARY 14, 1991

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number:	41741
Client I.D.:	E87-2693-8 #7 Fuel Oil East End 7-15-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	85
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.12
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.11

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 94 mls of 0.5 N acetic acid was 5.0.

WA/9c

Susan K. Scott
Laboratory Supervisor

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number: 41742

Client I.D.: E87-2693-9
#7 Fuel Oil
West End
7-15-88

[illegible] Soil

As Received:

Total Solids @ 104°C, %	84
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	0.06
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.02

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 30 mls of 0.5 N acetic acid was 5.2.

WA/10c

Susan K. Scott
Laboratory Supervisor

Burmah

Burmah Technical Services, Inc.
Analytical Laboratories Division

408 Auburn Avenue
Pontiac, Michigan 48058

313-334-4747

Bierlein Environmental Services
2903 South Graham
Saginaw, MI 48603
Attn: Stanley Baker

August 25, 1988

PROGRAM: CFD-SNI

Date Received: 8-10-88

ALD Number: 42556

Client I.D.: E87-2693-14
Diesel Fuel Tank near
Pump House
Ground Water

Physical Description: 100% Turbid Liquid

As Received:

Total Solids by Filtration, 0.45u, %	<0.01
Cyanide, CN, mg/kg	<1
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2
Arsenic, As, mg/kg	<0.4
Barium, Ba, mg/kg	<1.8
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	<0.7
Lead, Pb, mg/kg	<1.8
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7
Copper, Cu, mg/kg	0.7
Zinc, Zn, mg/kg	3.3
Nickel, Ni, mg/kg	<0.7

Sample contained less than 0.5% solids, therefore, a leachate would be inappropriate. Results are reported on sample as received.

WA/13a

Susan K. Scott

Burmah

Bierlein Environmental Services
Attn: Stan Baker

August 19, 1988

PROGRAM: CFD - SNI

Date Received: 7-27-88

ALD Number:	41740
Client I.D.:	E87-2693-7 Contaminated Soil @ Tank Battery Behind Oil House 7-15-88
Physical Description:	100% Soil

As Received:

Total Solids @ 104°C, %	99
Benzene, mg/kg	<2
Toluene, mg/kg	<2
Xylenes, mg/kg	<2

EP Toxicity:

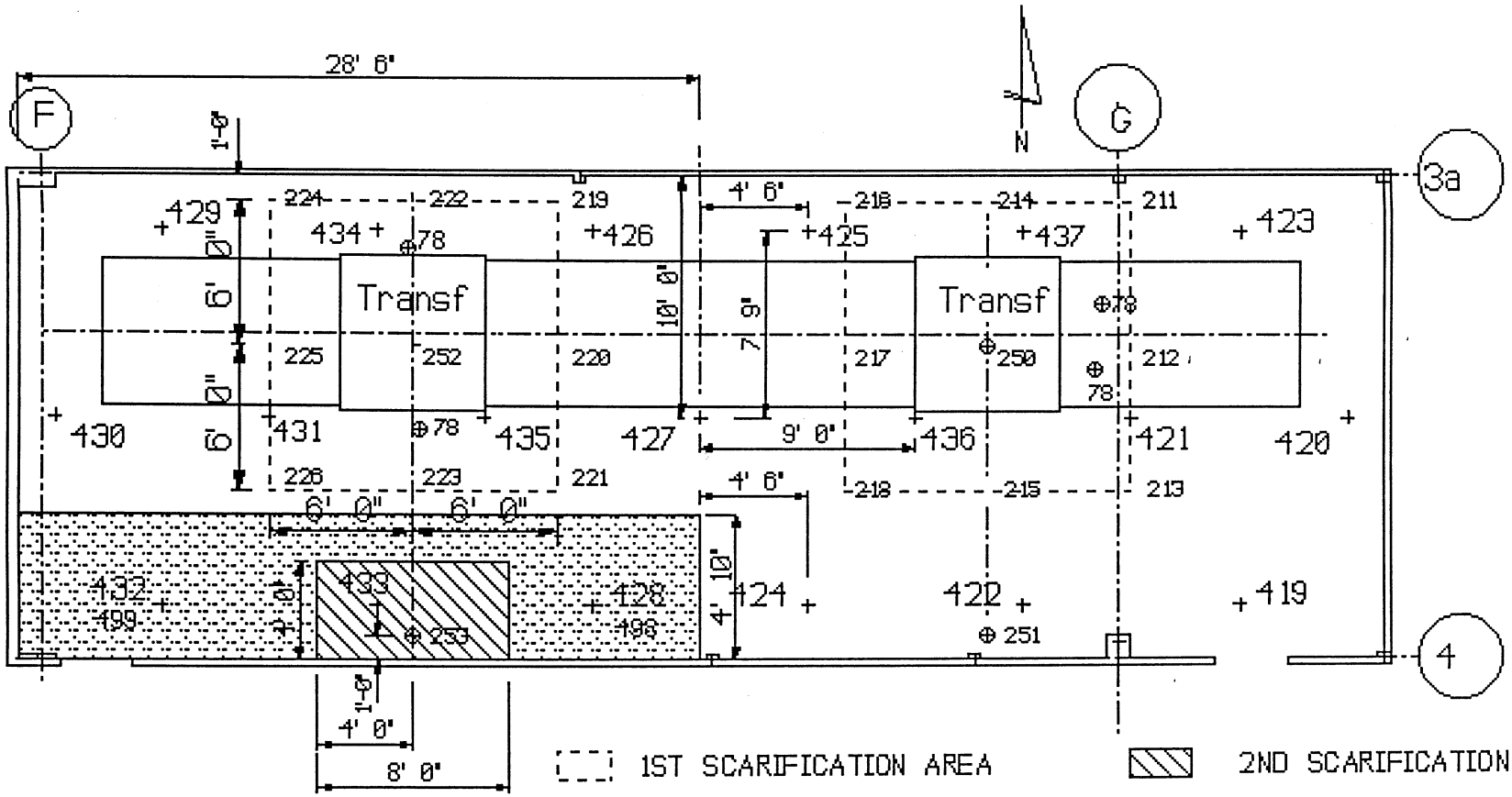
Arsenic, As, mg/l	<0.005
Barium, Ba, mg/l	<0.05
Cadmium, Cd, mg/l	<0.01
Chromium, Cr, mg/l	<0.02
Lead, Pb, mg/l	<0.05
Mercury, Hg, mg/l	<0.0005
Selenium, Se, mg/l	<0.005
Silver, Ag, mg/l	<0.02
Copper, Cu, mg/l	<0.02
Zinc, Zn, mg/l	0.04

100 grams of sample was leached into 1600 mls of deionized water and brought to a final volume of 2000 mls. Final pH after the addition of 8 mls of 0.5 N acetic acid was 4.9.

WA/8c

Susan K. Scott
Laboratory Supervisor

Appendix 12.12
Available Laboratory Analytical Data
PCB Floor Contamination



1ST SCARIFICATION AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 78 AND 211 THROUGH 226

SAMPLE POINTS AFTER 1ST SCARIFICATION 250. 251. 252. 253

2ND SCARIFICATION AREA

SAMPLE POINTS AFTER 2ND SCARIFICATION 419 THROUGH 437

3RD SCARIFICATION AREA

SAMPLE POINTS AFTER 3RD SCARIFICATION 498. 499

1-25-26-30-35

SUBSTATION 101

General Motors Corporation

Sample #: L7981-1 (Project)

Description : #78 101 SUB

Collected: 02-DEC-93 Matrix: Solid Submitted: 02-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	990	ug/kg	330	8080
PCB-1221	ND	990	ug/kg	330	8080
PCB-1232	ND	990	ug/kg	330	8080
PCB-1242	ND	990	ug/kg	330	8080
PCB-1248	ND	990	ug/kg	330	8080
PCB-1254	ND	990	ug/kg	330	8080
PCB-1260	2310	990	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.112	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.03	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	8240

Analytic & Biological Laboratories, Inc.

24950 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8671

General Motors Corporation

Sample #: L7981-1 (Project)

Description : #78 101 SUB

Collected: 02-DEC-93 Matrix: Solid Submitted: 02-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Vinyl chloride	ND	.005	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.

24950 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) [illegible] FAX (313) [illegible]

General Motors Corporation-Saginaw

Sample #: L9679-1 (Project)

Description : #211 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-3 (Project)

Description : #212 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-4 (Project)

Description : #213 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-2 (Project)

Description : #214 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-5 (Project)

Description : #215 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-8 (Project)

Description : #216 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-7 (Project)

Description : #217 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-6 (Project)

Description : #218 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-94

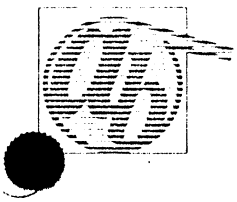
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604



General Motors Corporation-Saginaw

Sample #: L9679-15 (Project)

Description : #219 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-16 (Project)

Description : #220 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4404

General Motors Corporation-Saginaw

Sample #: L9679-12 (Project)

Description : #221 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-9666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-14 (Project)

Description : #222 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-11 (Project)

Description : #223 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6656 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-13 (Project)

Description : #224 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-10 (Project)

Description : #225 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-9 (Project)

Description : #226 101 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE, FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6566 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9689-3 (Project)

Description : #250 101 SUB

Collected: 21-APR-94 Matrix: Solid Submitted: 21-APR-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

Analytic & Biological Laboratories, Inc.
24850 ANDOVER CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-2033

General Motors Corporation-Saginaw

Sample #: L9689-4 (Project)

Description : #251 101 SUB

Collected: 21-APR-94 Matrix: Solid Submitted: 21-APR-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

Analytic & Biological Laboratories, Inc.
[illegible]

General Motors Corporation-Saginaw

Sample #: L9689-5 (Project)

Description : #252 101 SUB

Collected: 21-APR-94 Matrix: Solid Submitted: 21-APR-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

Analytic & Biological Laboratories, Inc.
[illegible]

General Motors Corporation-Saginaw

Sample #: L9689-6 (Project)

Description : #253 101 SUB

Collected: 21-APR-94 Matrix: Solid Submitted: 21-APR-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	1630	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6660 FAX (313) 477-8601

General Motors Corporation-Nodular

Sample #: L10602-1 (Project)

Description : #419 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8009

General Motors Corporation-Nodular

Sample #: L10602-2 (Project)

Description : #420 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6606 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L10602-3 (Project)

Description : #421 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L10602-4 (Project)

Description : #422 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4601

General Motors Corporation-Nodular

Sample #: L10602-5 (Project)

Description : #423 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477 4604

General Motors Corporation-Nodular

Sample #: L10602-6 (Project)

Description : #424 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L10602-7 (Project)

Description : #425 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L10602-8 (Project)

Description : #426 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L10602-9 (Project)

Description : #427 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L10602-10 (Project)

Description : #428 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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	693	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 8404

General Motors Corporation-Nodular

Sample #: L10602-11 (Project)

Description : #429 SUB STATION 101

Collected: 29-JUN-94 Matrix: Solid Submitted: 29-JUN-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L10685-1 Concrete Sample (Project P 1090.00)

Description : SAMPLE 430 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10685-2 Concrete Sample (Project P 1090.00)

Description : SAMPLE 431 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
28350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN

General Motors Corporation-Nodular

Sample #: L10685-3 Concrete Sample (Project P 1090.00)

Description : SAMPLE 432 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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	1090	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-Nodular

Sample #: L10685-4 Concrete Sample (Project P 1090.00)

Description : SAMPLE 433 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24950 Hallwood Circle Farmington Hills, Michigan 48335

General Motors Corporation-Nodular

Sample #: L10685-5 Concrete Sample (Project P 1090.00)

Description : SAMPLE 434 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10685-6 Concrete Sample (Project P 1090.00)

Description : SAMPLE 435 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10685-7 Concrete Sample (Project P 1090.00)

Description : SAMPLE 436 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10685-8 Concrete Sample (Project P 1090.00)

Description : SAMPLE 437 SUB 101

Collected: 06-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10880-4 (Project)

Description : #498 S.S. 101

Collected: 22-JUL-94 Matrix: Solid Submitted: 22-JUL-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

Analytic & Biological Laboratories, Inc.
24850 HALL CIRCLE FARMINGTON HILLS MICHIGAN

General Motors Corporation-Nodular

Sample #: L10880-3 (Project)

Description : #499 S.S. 101

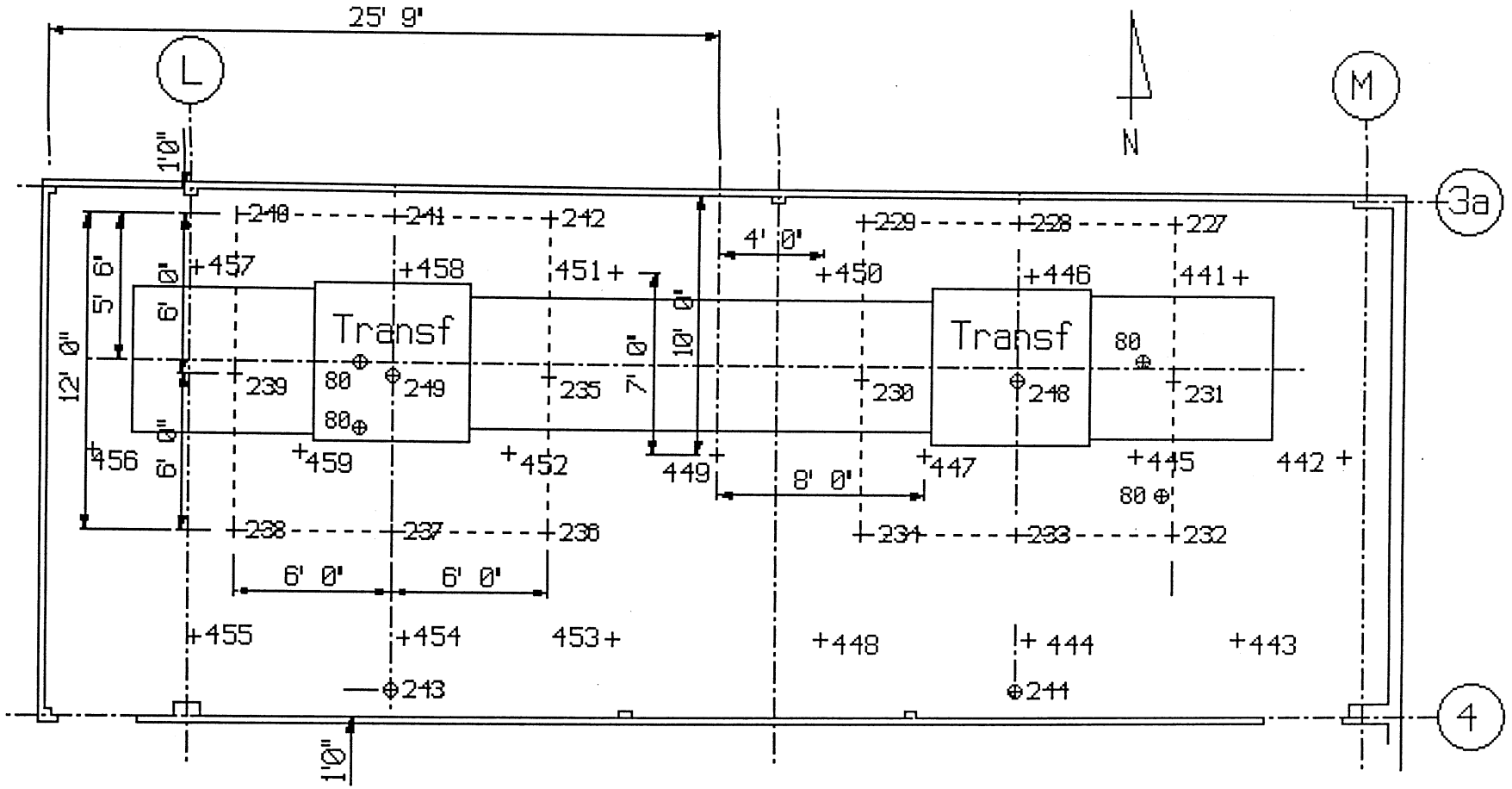
Collected: 22-JUL-94 Matrix: Solid Submitted: 22-JUL-94

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



SCARIFIED AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 80 AND 227 THROUGH 244 AND 248, 249

SAMPLE POINTS AFTER 1ST SCARIFICATION 441 THROUGH 459

SUBSTATION 102

2-31-32-33-34

General Motors Corporation

Sample #: L7981-3 (Project)

Description : #80 102 SUB

Collected: 02-DEC-93 Matrix: Solid Submitted: 02-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	990	ug/kg	330	8080
PCB-1221	ND	990	ug/kg	330	8080
PCB-1232	ND	990	ug/kg	330	8080
PCB-1242	ND	990	ug/kg	330	8080
PCB-1248	ND	990	ug/kg	330	8080
PCB-1254	ND	990	ug/kg	330	8080
PCB-1260	1330	990	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.072	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	601
TCLP Lead	ND	.042	mg/l	.042	601
TCLP Mercury	ND	.005	mg/l	.005	747
TCLP Selenium	ND	.075	mg/l	.075	601
TCLP Silver	ND	.007	mg/l	.007	601
TCLP Zinc	ND	.05	mg/l	.05	601
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.03	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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

General Motors Corporation-Saginaw

Sample #: L9679-19 (Project)

Description : #227 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-18 (Project)

Description : #228 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-17 (Project)

Description : #229 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-24 (Project)

Description : #230 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc
24350 INDOPLEX CIRCLE, FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-20 (Project)

Description : #231 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4604

General Motors Corporation-Saginaw

Sample #: L9679-21 (Project)

Description : #232 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9679-22 (Project)

Description : #233 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477 4604

General Motors Corporation-Saginaw

Sample #: L9679-23 (Project)

Description : #234 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4674

General Motors Corporation-Saginaw

Sample #: L9679-32 (Project)

Description : #235 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8661

General Motors Corporation-Saginaw

Sample #: L9679-25 (Project)

Description : #236 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9679-26 (Project)

Description : #237 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9679-27 (Project)

Description : #238 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9679-28 (Project)

Description : #239 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9679-29 (Project)

Description : #240 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
24950 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) [illegible] FAX (313) [illegible]

General Motors Corporation-Saginaw

Sample #: L9679-30 (Project)

Description : #241 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
[illegible]

General Motors Corporation-Saginaw

Sample #: L9679-31 (Project)

Description : #242 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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

Analytic & Biological Laboratories, Inc.
21880 ENDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (313) [illegible]6666 FAX (313) [illegible]

General Motors Corporation-Saginaw

Sample #: L9679-33 (Project)

Description : #243 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9679-34 (Project)

Description : #244 102 SUB

Collected: 20-APR-94 Matrix: Solid Submitted: 20-APR-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 #: L9689-1 (Project)

Description : #248 102 SUB

Collected: 21-APR-94 Matrix: Solid Submitted: 21-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8691

General Motors Corporation-Nodular

Sample #: L10686-6 Concrete Sample (Project P 1090.00)

Description : #446 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10686-7 Concrete Sample (Project P 1090.00)

Description : #447 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-8 Concrete Sample (Project P 1090.00)

Description : #448 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-9 Concrete Sample (Project P 1090.00)

Description : #449 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-10 Concrete Sample (Project P 1090.00)

Description : #450 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10686-11 Concrete Sample (Project P 1090.00)

Description : #451 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-12 Concrete Sample (Project P 1090.00)

Description : #452 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-13 Concrete Sample (Project P 1090.00)

Description : #453 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-8 Concrete Sample (Project P 1090.00)

Description : #448 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-9 Concrete Sample (Project P 1090.00)

Description : #449 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10686-10 Concrete Sample (Project P 1090.00)

Description : #450 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10686-11 Concrete Sample (Project P 1090.00)

Description : #451 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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

Analytic & Biological Laboratories, Inc.
24850 INDOFF CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10686-12 Concrete Sample (Project P 1090.00)

Description : #452 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-13 Concrete Sample (Project P 1090.00)

Description : #453 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-14 Concrete Sample (Project P 1090.00)

Description : #454 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-15 Concrete Sample (Project P 1090.00)

Description : #455 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-16 Concrete Sample (Project P 1090.00)

Description : #456 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-17 Concrete Sample (Project P 1090.00)

Description : #457 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-18 Concrete Sample (Project P 1090.00)

Description : #458 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-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-Nodular

Sample #: L10686-19 Concrete Sample (Project P 1090.00)

Description : #459 SUB 102

Collected: 07-JUL-94 Matrix: Solid Submitted: 08-JUL-94

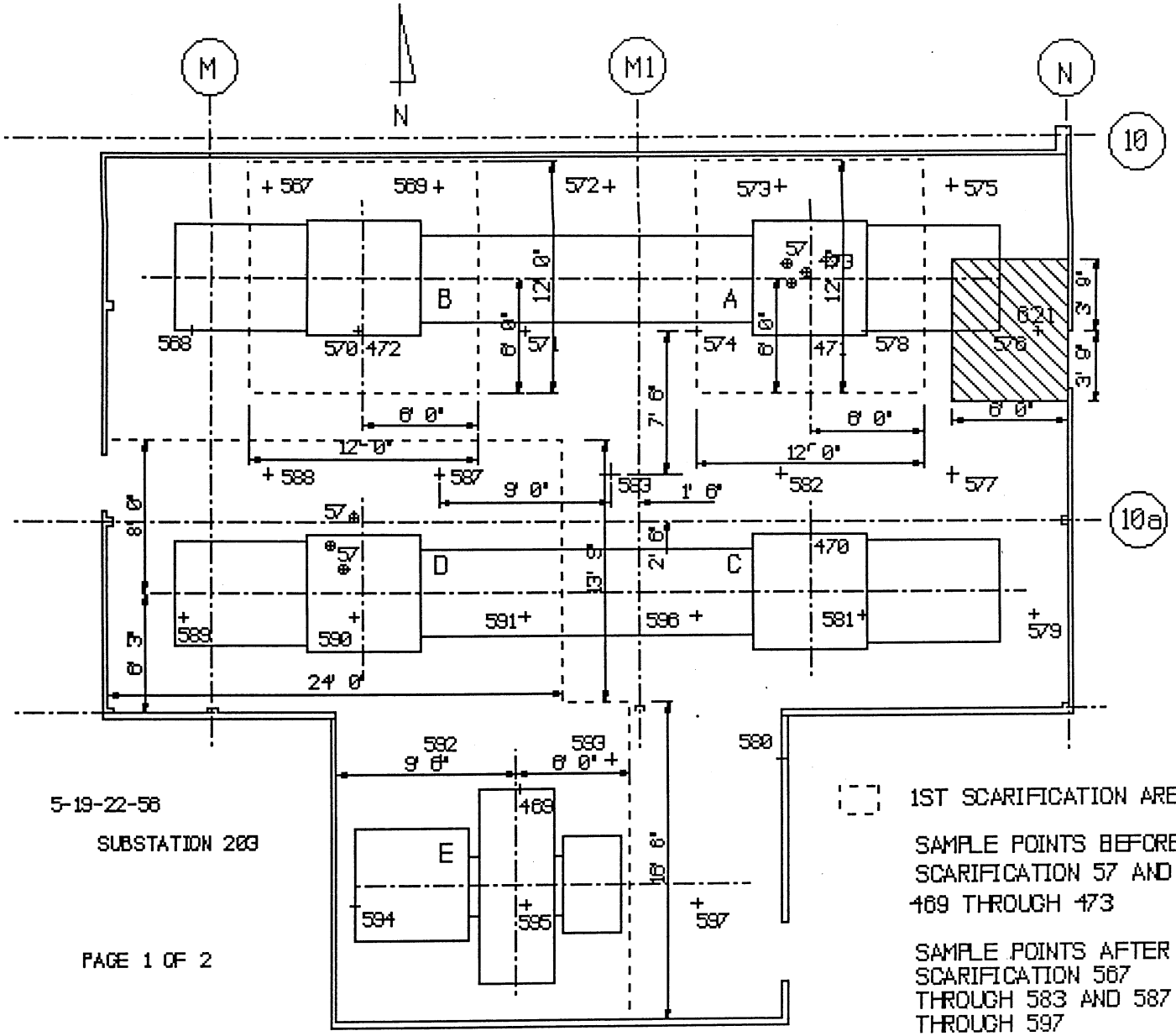
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

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

Analytic & Biological Laboratories, Inc.
[illegible]



5-19-22-56

SUBSTATION 203

PAGE 1 OF 2

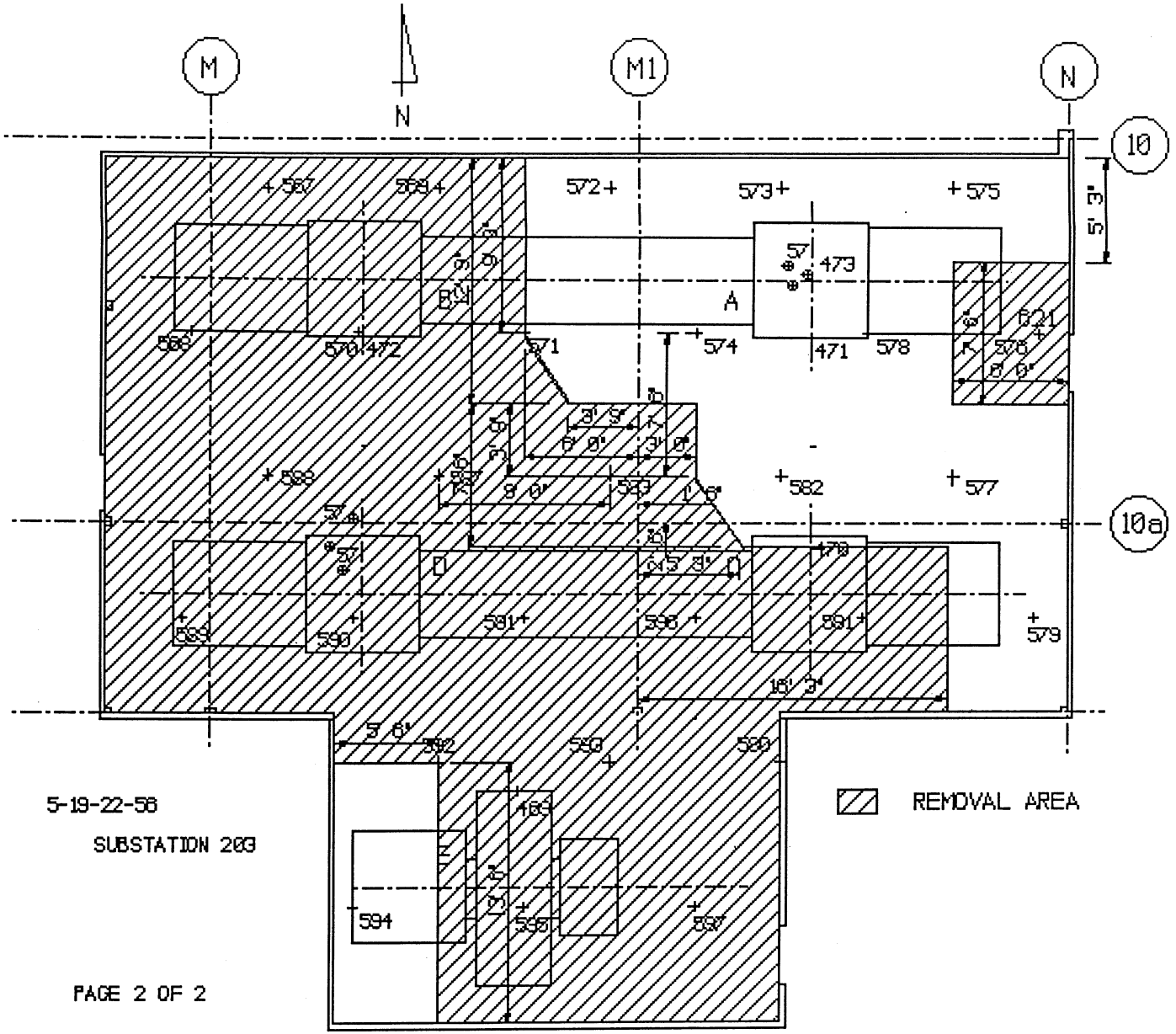
1ST SCARIFICATION AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 57 AND 469 THROUGH 473

SAMPLE POINTS AFTER 1ST SCARIFICATION 567 THROUGH 583 AND 587 THROUGH 597

2ND SCARIFICATION AREA

SAMPLE POINT AFTER 2ND SCARIFICATION 621



5-19-22-56

SUBSTATION 203

General Motors Corporation

Sample #: L7256-10 (Project)

Description : 57 203 SUB.

Collected: 08-OCT-93 Matrix: Solid Submitted: 11-OCT-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	10000	ug/kg	330	8080
PCB-1221	ND	10000	ug/kg	330	8080
PCB-1232	ND	10000	ug/kg	330	8080
PCB-1242	ND	10000	ug/kg	330	8080
PCB-1248	ND	10000	ug/kg	330	8080
PCB-1254	434150	10000	ug/kg	330	8080
PCB-1260	143690	10000	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.484	.05	mg/l	.05	6010
TCLP Cadmium	.004	.003	mg/l	.003	6010
TCLP Chromium	.014	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.005	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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

General Motors Corporation-Nodular

Sample #: L10822-8 (Project)

Description : #469

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	4923	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	ND	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-5656 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L10822-9 (Project)

Description : #470

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L10822-10 (Project)

Description : #471

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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	462	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

Analytic & Biological Laboratories, Inc.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L10822-11 (Project)

Description : #472

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	152167	33000	ug/kg	330	8080
PCB-1260	ND	33000	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L10822-12 (Project)

Description : #473

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	60260	33000	ug/kg	330	8080
PCB-1260	ND	33000	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L11537-1 (Project)

Description : #567 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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	2750	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6066 FAX (800) 477-4804

General Motors Corporation-Nodular

Sample #: L11537-2 (Project)

Description : #568 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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	870	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8809

General Motors Corporation-Nodular

Sample #: L11537-3 (Project)

Description : #569 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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	770	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
28330 INDUPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-6066 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L11537-4 (Project)

Description : #570 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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	920	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24450 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (800) 477-6666 FAX (810) 477-8005

General Motors Corporation-Nodular

Sample #: L11537-5 (Project)

Description : #571 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8895

General Motors Corporation-Nodular

Sample #: L11537-6 (Project)

Description : #572 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-1666 FAX (810) 477-1665

General Motors Corporation-Nodular

Sample #: L11537-7 (Project)

Description : #573 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L11537-8 (Project)

Description : #574 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-6565 FAX (810) 477-8009

General Motors Corporation-Nodular

Sample #: L11537-9 (Project)

Description : #575 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc
24336 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 472-6666 FAX (810) [illegible]

General Motors Corporation-Nodular

Sample #: L11537-10 (Project)

Description : #576 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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	590	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24550 INDUSTRY CIRCLE FARMINGTON HILLS MICHIGAN 48335 (800) 477-6606 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L11537-11 (Project)

Description : #577 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-6565 FAX (810) 477-8911

General Motors Corporation-Nodular

Sample #: L11537-12 (Project)

Description : #578 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (800) 477-6666 FAX (810) 477-8593

General Motors Corporation-Nodular

Sample #: L11537-13 (Project)

Description : #579 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11537-16 (Project)

Description : #582 SUB-STATION 203

Collected: 13-SEP-94 Matrix: Solid Submitted: 14-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L11596-1 (Project)

Description : #583 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	1910	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8431

General Motors Corporation-Nodular

Sample #: L11596-2 (Project)

Description : #587 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	740	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6656 FAX (313) 477-4104

General Motors Corporation-Nodular

Sample #: L11596-3 (Project)

Description : #588 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 471-6666 FAX (810) 471-6

General Motors Corporation-Nodular

Sample #: L11596-4 (Project)

Description : #589 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	4930	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8656

General Motors Corporation-Nodular

Sample #: L11596-5 (Project)

Description : #590 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	1650000	ug/kg	330	8080
PCB-1221	ND	1650000	ug/kg	330	8080
PCB-1232	ND	1650000	ug/kg	330	8080
PCB-1242	2997000	1650000	ug/kg	330	8080
PCB-1248	ND	1650000	ug/kg	330	8080
PCB-1254	ND	1650000	ug/kg	330	8080
PCB-1260	ND	1650000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-3686 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L11596-6 (Project)

Description : #591 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	570	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24150 HALSTED CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-6604

General Motors Corporation-Nodular

Sample #: L11596-7 (Project)

Description : #592 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (800) 477-7008

General Motors Corporation-Nodular

Sample #: L11596-8 (Project)

Description : #593 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	930	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8643

General Motors Corporation-Nodular

Sample #: L11596-9 (Project)

Description : #594 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (800) 477-8448

General Motors Corporation-Nodular

Sample #: L11596-10 (Project)

Description : #595 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	800	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8094

General Motors Corporation-Nodular

Sample #: L11596-11 (Project)

Description : #596 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	620	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6559 FAX (313) 477-6021

General Motors Corporation-Nodular

Sample #: L11596-12 (Project)

Description : #597 SUBSTATION 203

Collected: 16-SEP-94 Matrix: Solid Submitted: 16-SEP-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	700	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L11827-21 (Project)

Description : #621 SUSTATION 203
RESAMPLE #~~567~~ 576

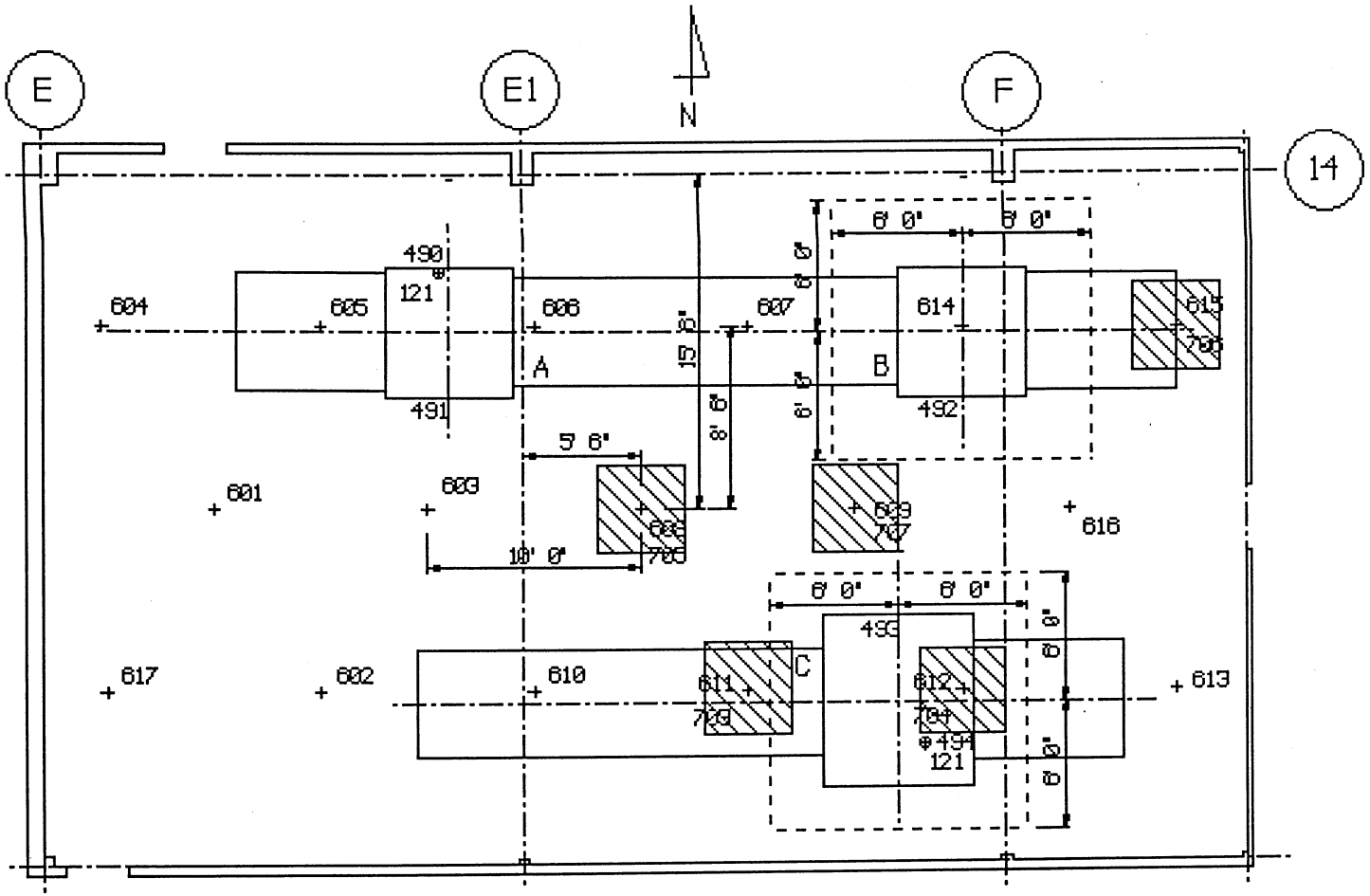
Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

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	820	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT



1ST SCARIFICATION AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 121 AND 490 THROUGH 494

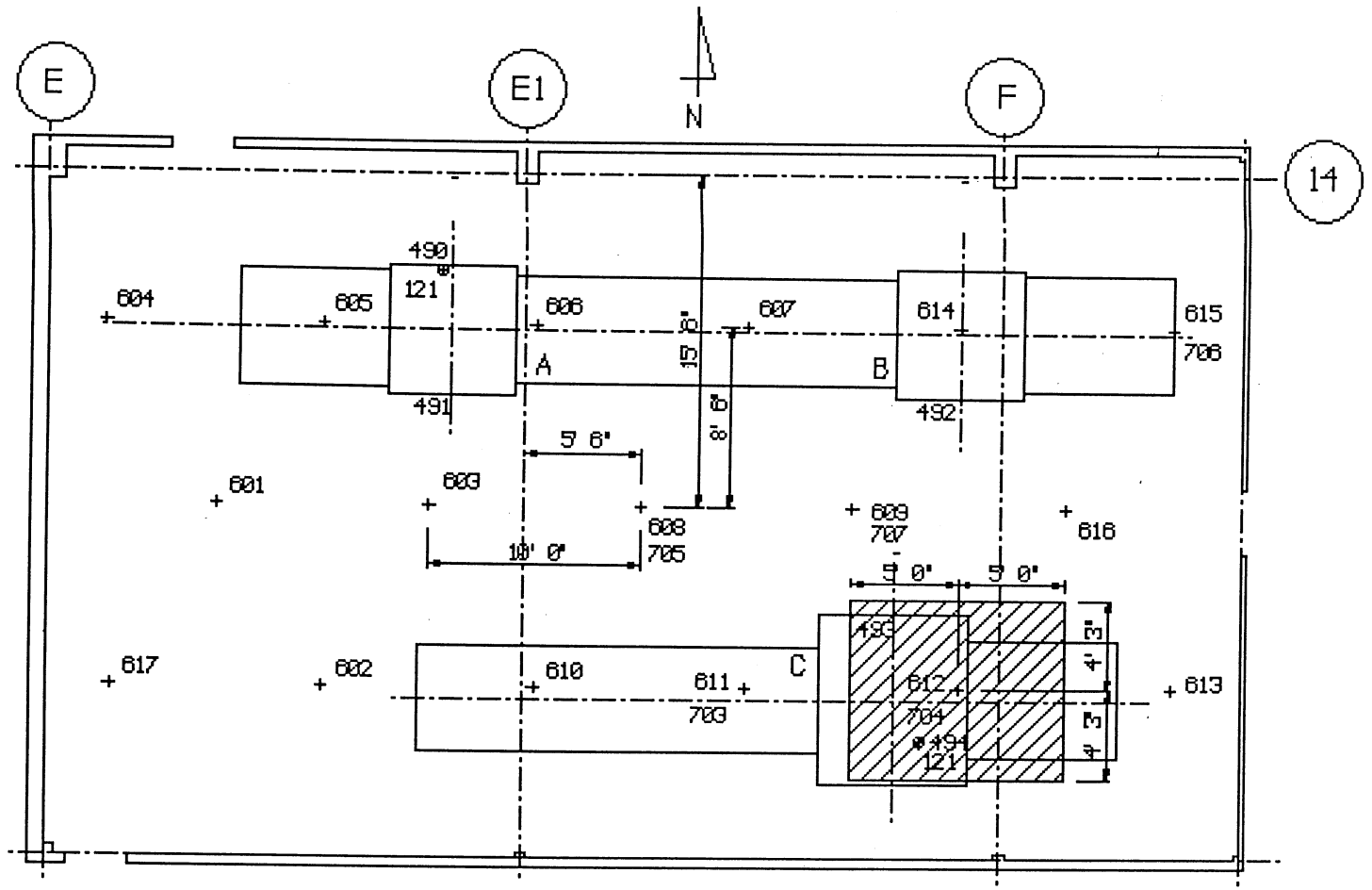
SAMPLE POINTS AFTER 1ST SCARIFICATION 601 THROUGH 617

2ND SCARIFICATION AREA

SAMPLE POINTS AFTER 2ND SCARIFICATION 703 THROUGH 707

7-43-44-45-60-62

SUBSTATION 301



7-43-44-45-60-62

SUBSTATION 301

REMOVAL AREA

General Motors Corporation

Sample #: L8063-6 (Project)

Description : #121 SUBSTATION 301

Collected: 08-DEC-93 Matrix: Solid Submitted: 08-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
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	6480	330	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	ND	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	.009	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.03	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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 (313) 477-6666 FAX (313) 477-7004

General Motors Corporation-Nodular

Sample #: L10841-7 (Project)

Description : #490 SUBSTATION #301

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4644

General Motors Corporation-Nodular

Sample #: L10841-8 (Project)

Description : #491 SUBSTATION #301

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-8666 FAX (810) 477-1638

General Motors Corporation-Nodular

Sample #: L10841-9 (Project)

Description : #492 SUBSTATION #301

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-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	722	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (810) 477-8671

General Motors Corporation-Nodular

Sample #: L10841-10 (Project)

Description : #493 SUBSTATION #301

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	1963	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-5656 FAX (810) 477-8691

General Motors Corporation-Nodular

Sample #: L10841-11 (Project)

Description : #494 SUBSTATION #301

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	2034	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L11827-9 (Project)

Description : #601 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-11 (Project)

Description : #602 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-12 (Project)

Description : #603 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
CB UG/KG (HL)					
CB-1016	ND	330	ug/kg	330	8080
CB-1221	ND	330	ug/kg	330	8080
CB-1232	ND	330	ug/kg	330	8080
CB-1242	ND	330	ug/kg	330	8080
CB-1248	ND	330	ug/kg	330	8080
CB-1254	ND	330	ug/kg	330	8080
CB-1260	ND	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-10 (Project)

Description : #604 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-13 (Project)

Description : #605 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
'CB UG/KG (HL)					
'CB-1016	ND	330	ug/kg	330	8080
'CB-1221	ND	330	ug/kg	330	8080
'CB-1232	ND	330	ug/kg	330	8080
'CB-1242	ND	330	ug/kg	330	8080
'CB-1248	ND	330	ug/kg	330	8080
'CB-1254	ND	330	ug/kg	330	8080
'CB-1260	ND	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-14 (Project)

Description : #606 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-1 (Project)

Description : #607 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
CB UG/KG (HL)					
CB-1016	ND	330	ug/kg	330	8080
CB-1221	ND	330	ug/kg	330	8080
CB-1232	ND	330	ug/kg	330	8080
CB-1242	ND	330	ug/kg	330	8080
CB-1248	ND	330	ug/kg	330	8080
CB-1254	ND	330	ug/kg	330	8080
CB-1260	ND	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-2 (Project)

Description : #608 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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	480	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-3 (Project)

Description : #609 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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	1250	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-4 (Project)

Description : #610 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-5 (Project)

Description : #611 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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	410	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-6 (Project)

Description : #612 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	1650	ug/kg	330	8080
PCB-1221	ND	1650	ug/kg	330	8080
PCB-1232	ND	1650	ug/kg	330	8080
PCB-1242	ND	1650	ug/kg	330	8080
PCB-1248	ND	1650	ug/kg	330	8080
PCB-1254	7720	1650	ug/kg	330	8080
PCB-1260	ND	1650	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-7 (Project)

Description : #613 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-15 (Project)

Description : #614 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-16 (Project)

Description : #615 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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	340	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L11827-17 (Project)

Description : #616 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L11827-8 (Project)

Description : #617 SUBSTATION 301

Collected: 05-OCT-94 Matrix: Solid Submitted: 05-OCT-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
CB UG/KG (HL)					
CB-1016	ND	330	ug/kg	330	8080
CB-1221	ND	330	ug/kg	330	8080
CB-1232	ND	330	ug/kg	330	8080
CB-1242	ND	330	ug/kg	330	8080
CB-1248	ND	330	ug/kg	330	8080
CB-1254	ND	330	ug/kg	330	8080
CB-1260	ND	330	ug/kg	330	8080

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

General Motors Corporation-Nodular

Sample #: L12116-18 (Project)

Description : #703 SUB 301
RESAMPLE 611

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 471-7666 FAX (810) 471-6433

General Motors Corporation-Nodular

Sample #: L12116-19 (Project)

Description : #704 SUB 301
RESAMPLE 612

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	13200	ug/kg	330	8080
PCB-1221	ND	13200	ug/kg	330	8080
PCB-1232	ND	13200	ug/kg	330	8080
PCB-1242	ND	13200	ug/kg	330	8080
PCB-1248	ND	13200	ug/kg	330	8080
PCB-1254	19100	13200	ug/kg	330	8080
PCB-1260	ND	13200	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-[illegible] FAX (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L12116-20 (Project)

Description : #705 SUB 301
RESAMPLE 608

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (313) 477-2...

General Motors Corporation-Nodular

Sample #: L12116-21 (Project)

Description : #706 SUB 301
RESAMPLE 615

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
CB UG/KG (HL)					
CB-1016	ND	330	ug/kg	330	8080
CB-1221	ND	330	ug/kg	330	8080
CB-1232	ND	330	ug/kg	330	8080
CB-1242	ND	330	ug/kg	330	8080
CB-1248	ND	330	ug/kg	330	8080
CB-1254	ND	330	ug/kg	330	8080
CB-1260	ND	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6660 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L12116-22 (Project)

Description : #707 SUB 301
RESAMPLE 609

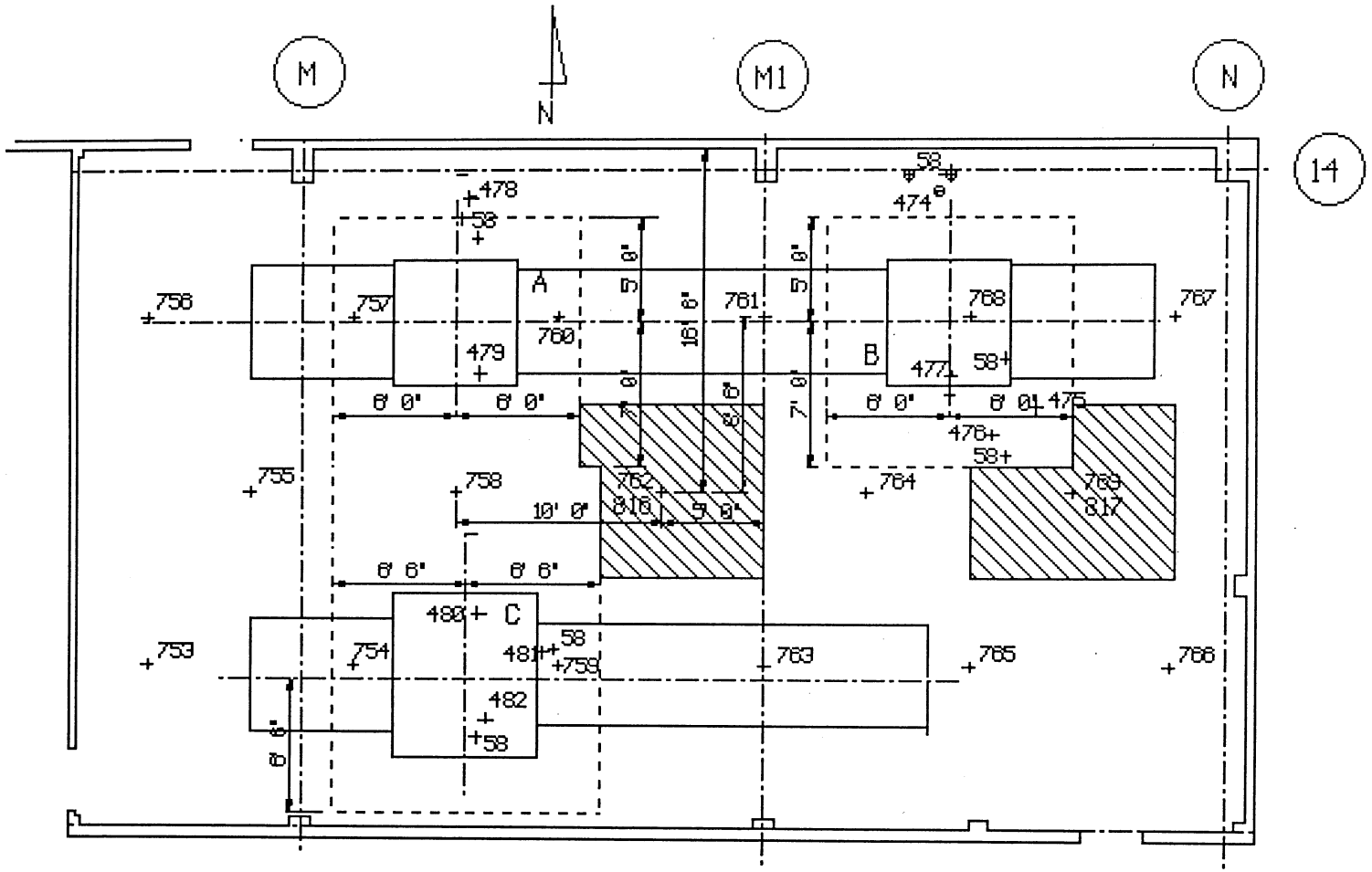
Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT



8-40-41-42

SUBSTATION 302

1ST SCARIFICATION AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 58 AND 474 THROUGH 482

SAMPLE POINTS AFTER 1ST SCARIFICATION 753 THROUGH 769

2ND SCARIFICATION AREA

SAMPLE POINTS AFTER 2ND SCARIFICATION 816, 817

General Motors Corporation

Sample #: L7256-9 (Project)

Description : 58 302 SUB.

Collected: 08-OCT-93 Matrix: Solid Submitted: 11-OCT-93

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	23425	330	ug/kg	330	8080
PCB-1260	8472	330	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.278	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	.035	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.005	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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.
21050 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8041

General Motors Corporation-Nodular

Sample #: L10822-1 (Project)

Description : #474

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
21950 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10822-2 (Project)

Description : #475

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6066 FAX (810) 477-1804

General Motors Corporation-Nodular

Sample #: L10822-3 (Project)

Description : #476

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10822-3 (Project)

Description : #476

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-[illegible] FAX (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L10822-4 (Project)

Description : #477

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	927	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-3626 FAX (810) 477-8687

General Motors Corporation-Nodular

Sample #: L10841-1 (Project)

Description : #478 SUBSTATION #302

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10841-2 (Project)

Description : #479 SUBSTATION #302

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	297000	ug/kg	330	8080
PCB-1221	ND	297000	ug/kg	330	8080
PCB-1232	ND	297000	ug/kg	330	8080
PCB-1242	ND	297000	ug/kg	330	8080
PCB-1248	ND	297000	ug/kg	330	8080
PCB-1254	ND	297000	ug/kg	330	8080
PCB-1260	823784	297000	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

Analytic & Biological Laboratories, inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10822-5 (Project)

Description : #480

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	1833	660	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

Analytic & Biological Laboratories, Inc
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-5656 FAX (313) 477-5656

General Motors Corporation-Nodular

Sample #: L10822-6 (Project)

Description : #481

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	1882	660	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-Nodular

Sample #: L10822-7 (Project)

Description : #482

Collected: 19-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	1071	660	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

Analytic & Biological Laboratories, Inc.
3350 RESEARCH CIRCLE FARMINGTON HILLS MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8021

General Motors Corporation-Nodular

Sample #: L13304-1 (Project)

Description : #753

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4634

General Motors Corporation-Nodular

Sample #: L13304-2 (Project)

Description : #754

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4644

General Motors Corporation-Nodular

Sample #: L13304-3 (Project)

Description : #755

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-0446 FAX (810) 477-8041

General Motors Corporation-Nodular

Sample #: L13304-4 (Project)

Description : #756

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/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-Nodular

Sample #: L13304-5 (Project)

Description : #757

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.

24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 447-8666 FAX (810) 477-3054

General Motors Corporation-Nodular

Sample #: L13304-6 (Project)

Description : #758

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 8654

General Motors Corporation-Nodular

Sample #: L13304-7 (Project)

Description : #759

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13304-8 (Project)

Description : #760

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6066 FAX (810) 477-7668

General Motors Corporation-Nodular

Sample #: L13304-9 (Project)

Description : #761

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-5050 FAX (810) 4[illegible]

General Motors Corporation-Nodular

Sample #: L13304-10 (Project)

Description : #762

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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	450	330	ug/kg	330	8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-0665 FAX (810) 477-7041

General Motors Corporation-Nodular

Sample #: L13304-11 (Project)

Description : #763

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L13304-12 (Project)

Description : #764

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-0600 FAX (810) 477-8079

General Motors Corporation-Nodular

Sample #: L13304-13 (Project)

Description : #765

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6656 FAX (810) 477-8438

General Motors Corporation-Nodular

Sample #: L13304-14 (Project)

Description : #766

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4661

General Motors Corporation-Nodular

Sample #: L13304-15 (Project)

Description : #767

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-0650 FAX (810) 477-7521

General Motors Corporation-Nodular

Sample #: L13304-16 (Project)

Description : #768

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 472-0668 FAX (313) 471-6448

General Motors Corporation-Nodular

Sample #: L13304-17 (Project)

Description : #769

Collected: 22-FEB-95 Matrix: Solid Submitted: 22-FEB-95

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	670	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 471-[illegible] FAX (810) 471-[illegible]

General Motors Corporation-Nodular

Sample #: L13994-1 (Project)

Description : #816
SUB 302

Collected: 20-APR-95 Matrix: Solid Submitted: 20-APR-95

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

Amy Arno/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-Nodular

Sample #: L13994-2 (Project)

Description : #817
SUB 302

Collected: 20-APR-95 Matrix: Solid Submitted: 20-APR-95

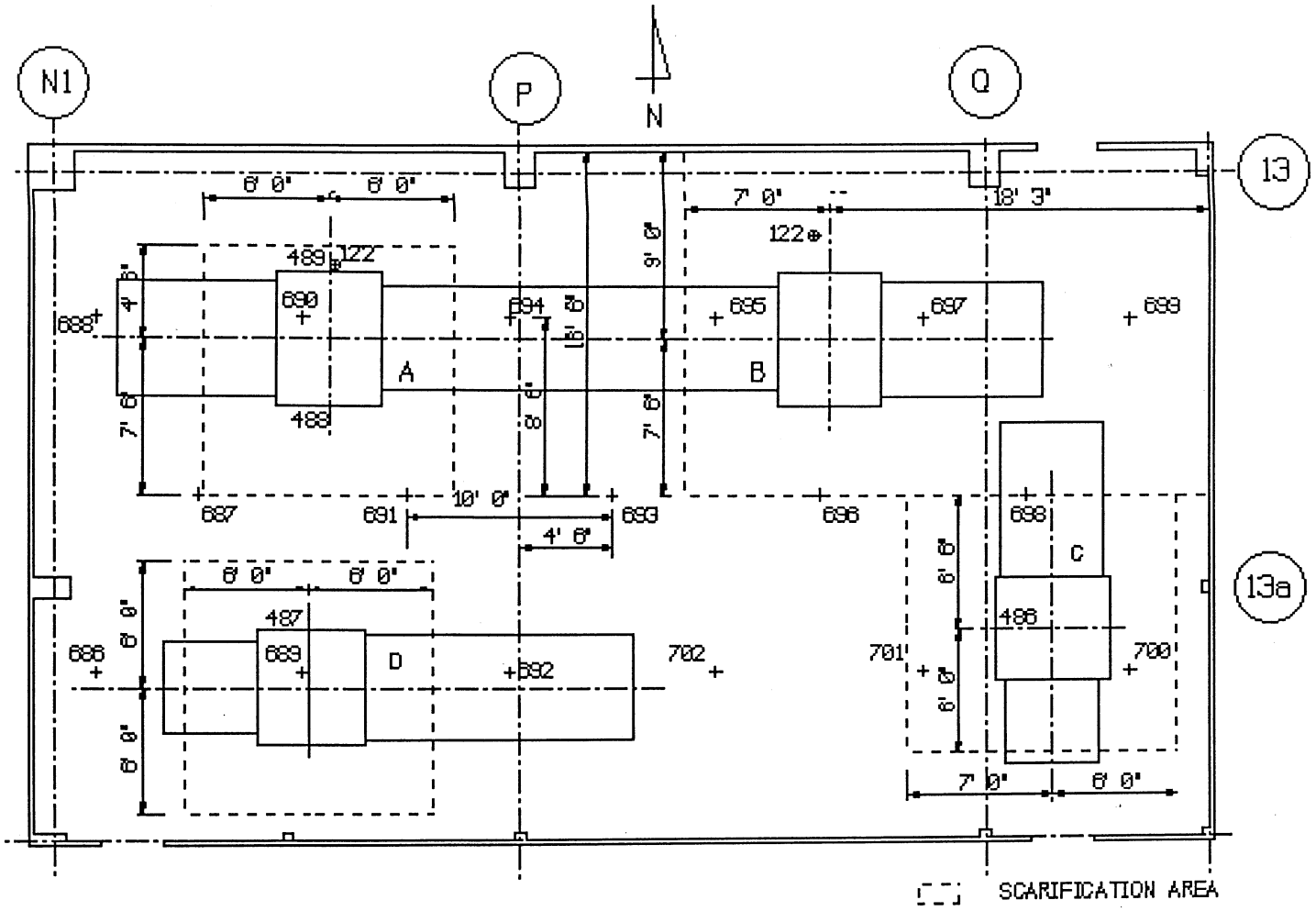
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

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

Amy Arno/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

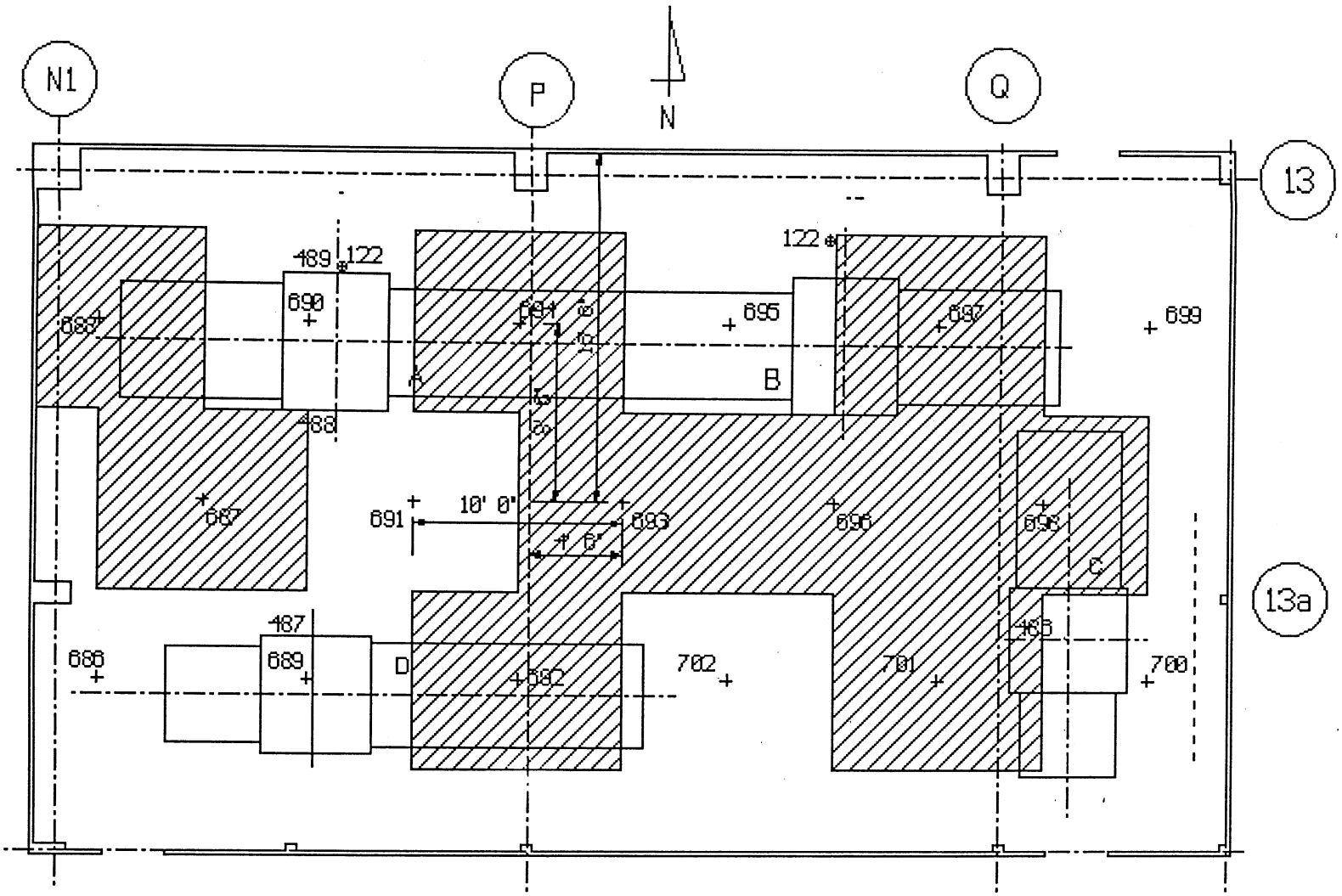


6-20-24-61

SUBSTATION 303

SAMPLE POINTS BEFORE SCARIFICATION 122 AND 486 THROUGH 489

SAMPLE POINTS AFTER SCARIFICATION 686 THROUGH 702



6-20-24-61

PAGE 2 OF 2

SUBSTATION 303

REMOVAL AREA
(8'-6" x 10'-0" AREAS CENTERED ON PTS 687, 688, 692, 693, 694, 696, 697, 698, 701)

General Motors Corporation

Sample #: L8063-5 (Project)

Description : #122 SUBSTATION 303

Collected: 08-DEC-93 Matrix: Solid Submitted: 08-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	66000	ug/kg	330	8080
PCB-1221	ND	66000	ug/kg	330	8080
PCB-1232	ND	66000	ug/kg	330	8080
PCB-1242	ND	66000	ug/kg	330	8080
PCB-1248	240300	66000	ug/kg	330	8080
PCB-1254	ND	66000	ug/kg	330	8080
PCB-1260	ND	66000	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	ND	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.03	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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

General Motors Corporation-Nodular

Sample #: L10841-3 (Project)

Description : #486 SUBSTATION #303

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	29700	ug/kg	330	8080
PCB-1221	ND	29700	ug/kg	330	8080
PCB-1232	ND	29700	ug/kg	330	8080
PCB-1242	ND	29700	ug/kg	330	8080
PCB-1248	45952	29700	ug/kg	330	8080
PCB-1254	ND	29700	ug/kg	330	8080
PCB-1260	ND	29700	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10841-4 (Project)

Description : #487 SUBSTATION #303

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	14850	ug/kg	330	8080
PCB-1221	ND	14850	ug/kg	330	8080
PCB-1232	ND	14850	ug/kg	330	8080
PCB-1242	ND	14850	ug/kg	330	8080
PCB-1248	ND	14850	ug/kg	330	8080
PCB-1254	ND	14850	ug/kg	330	8080
PCB-1260	16957	14850	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-Nodular

Sample #: L10841-5 (Project)

Description : #488 SUBSTATION #303

Collected: 20-JUL-94 Matrix: Solid Submitted: 20-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	29700	ug/kg	330	8080
PCB-1221	ND	29700	ug/kg	330	8080
PCB-1232	ND	29700	ug/kg	330	8080
PCB-1242	ND	29700	ug/kg	330	8080
PCB-1248	ND	29700	ug/kg	330	8080
PCB-1254	66470	29700	ug/kg	330	8080
PCB-1260	ND	29700	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

Analytic & Biological Laboratories, Inc
24150 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-5666 FAX (810) 471-1456

General Motors Corporation-Nodular

Sample #: L12116-6 (Project)

Description : #691 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE, FARMINGTON HILLS, MICHIGAN 48335 (800) 427-0660 FAX (810) 477-3648

General Motors Corporation-Nodular

Sample #: L12116-7 (Project)

Description : #692 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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	390	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-5656 FAX (810) 477-8560

General Motors Corporation-Nodular

Sample #: L12116-8 (Project)

Description : #693 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	34700	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	ND	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6646 FAX (810) 477-8431

General Motors Corporation-Nodular

Sample #: L12116-9 (Project)

Description : #694 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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	780	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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-0696 FAX (810) 477-8644

General Motors Corporation-Nodular

Sample #: L12116-10 (Project)

Description : #695 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 427-8686 FAX (810) 477-8443

General Motors Corporation-Nodular

Sample #: L12116-11 (Project)

Description : #696 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	1980	ug/kg	330	8080
PCB-1221	ND	1980	ug/kg	330	8080
PCB-1232	ND	1980	ug/kg	330	8080
PCB-1242	6380	1980	ug/kg	330	8080
PCB-1248	ND	1980	ug/kg	330	8080
PCB-1254	ND	1980	ug/kg	330	8080
PCB-1260	ND	1980	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L12116-12 (Project)

Description : #697 SUB 303

Collected: 27-OCT-94 Matrix: Solid Submitted: 27-OCT-94

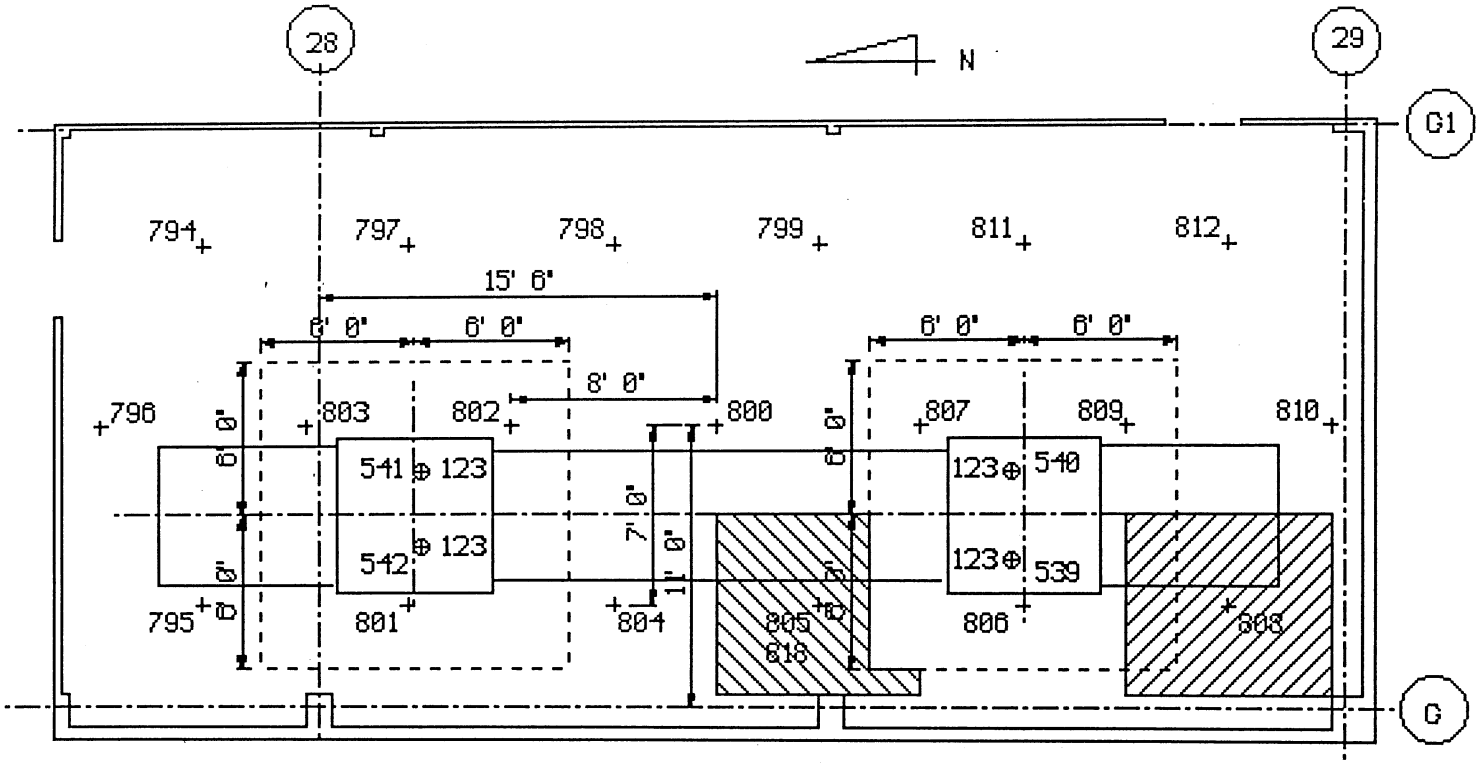
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	860	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (810) 477-8474



9-50-51-52

SUBSTATION 401

1ST SCARIFICATION AREA

SAMPLE POINTS BEFORE 1ST SCARIFICATION 123 AND 539 THROUGH 541

SAMPLE POINTS AFTER 1ST SCARIFICATION 794 THROUGH 812

2ND SCARIFICATION AREA

SAMPLE POINT AFTER 2ND SCARIFICATION 818

REMOVAL AREA

General Motors Corporation

Sample #: L8100-1 (Project)

Description : #123 SUBSTATION 401

Collected: 10-DEC-93 Matrix: Solid Submitted: 10-DEC-93

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
'CB UG/KG (HL)					
'CB-1016	ND	330	ug/kg	330	8080
'CB-1221	ND	330	ug/kg	330	8080
'CB-1232	ND	330	ug/kg	330	8080
'CB-1242	ND	330	ug/kg	330	8080
'CB-1248	ND	330	ug/kg	330	8080
'CB-1254	ND	330	ug/kg	330	8080
'CB-1260	3300	330	ug/kg	330	8080
'CLP METALS					
'CLP Arsenic	ND	.053	mg/l	.053	6010
'CLP Barium	ND	.05	mg/l	.05	6010
'CLP Cadmium	ND	.003	mg/l	.003	6010
'CLP Chromium	.01	.007	mg/l	.007	6010
'CLP Copper	ND	.01	mg/l	.01	6010
'CLP Lead	ND	.042	mg/l	.042	6010
'CLP Mercury	ND	.005	mg/l	.005	7470
'CLP Selenium	ND	.075	mg/l	.075	6010
'CLP Silver	ND	.007	mg/l	.007	6010
'CLP Zinc	ND	.05	mg/l	.05	6010
'CLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.015	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	8240

Analytic & Biological Laboratories, Inc.
24550 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6666 FAX (313) 477-8809

General Motors Corporation-Nodular

Sample #: L11062-1 (Project)

Description : #539 401 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	990	ug/kg	330	8080
PCB-1221	ND	990	ug/kg	330	8080
PCB-1232	ND	990	ug/kg	330	8080
PCB-1242	ND	990	ug/kg	330	8080
PCB-1248	ND	990	ug/kg	330	8080
PCB-1254	ND	990	ug/kg	330	8080
PCB-1260	1507	990	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

Analytic & Biological Laboratories, Inc.
24330 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 427 6666 FAX (810) 477 4644

General Motors Corporation-Nodular

Sample #: L11062-2 (Project)

Description : #540 401 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-7033

General Motors Corporation-Nodular

Sample #: L11062-3 (Project)

Description : #541 401 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8431

General Motors Corporation-Nodular

Sample #: L13610-1 (Project)

Description : #794
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L11062-4 (Project)

Description : #542 401 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	990	ug/kg	330	8080
PCB-1221	ND	990	ug/kg	330	8080
PCB-1232	ND	990	ug/kg	330	8080
PCB-1242	ND	990	ug/kg	330	8080
PCB-1248	ND	990	ug/kg	330	8080
PCB-1254	ND	990	ug/kg	330	8080
PCB-1260	1354	990	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

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6660 FAX (810) 477-8047

General Motors Corporation-Nodular

Sample #: L13610-2 (Project)

Description : #795
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L13610-3 (Project)

Description : #796
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13610-4 (Project)

Description : #797
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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

General Motors Corporation-Nodular

Sample #: L13610-5 (Project)

Description : #798
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6660 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13610-6 (Project)

Description : #799
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4004

General Motors Corporation-Nodular

Sample #: L13610-7 (Project)

Description : #800
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L13610-8 (Project)

Description : #801
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4904

General Motors Corporation-Nodular

Sample #: L13610-9 (Project)

Description : #802
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13610-10 (Project)

Description : #803
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L13610-11 (Project)

Description : #804
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L13610-12 (Project)

Description : #805
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	622	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4604

General Motors Corporation-Nodular

Sample #: L13610-13 (Project)

Description : #806
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13610-14 (Project)

Description : #807
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477 6666 FAX (810) 477 4004

General Motors Corporation-Nodular

Sample #: L13610-15 (Project)

Description : #808
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	28715	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477 4004

General Motors Corporation-Nodular

Sample #: L13610-16 (Project)

Description : #809
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L13610-17 (Project)

Description : #810
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6066 FAX (810) 477 4054

General Motors Corporation-Nodular

Sample #: L13610-18 (Project)

Description : #811
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4004

General Motors Corporation-Nodular

Sample #: L13610-19 (Project)

Description : #812
SUB 401

Collected: 22-MAR-95 Matrix: Solid Submitted: 22-MAR-95

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	150	ug/kg	150	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L13994-3 (Project)

Description : #818
SUB 401

Collected: 20-APR-95 Matrix: Solid Submitted: 20-APR-95

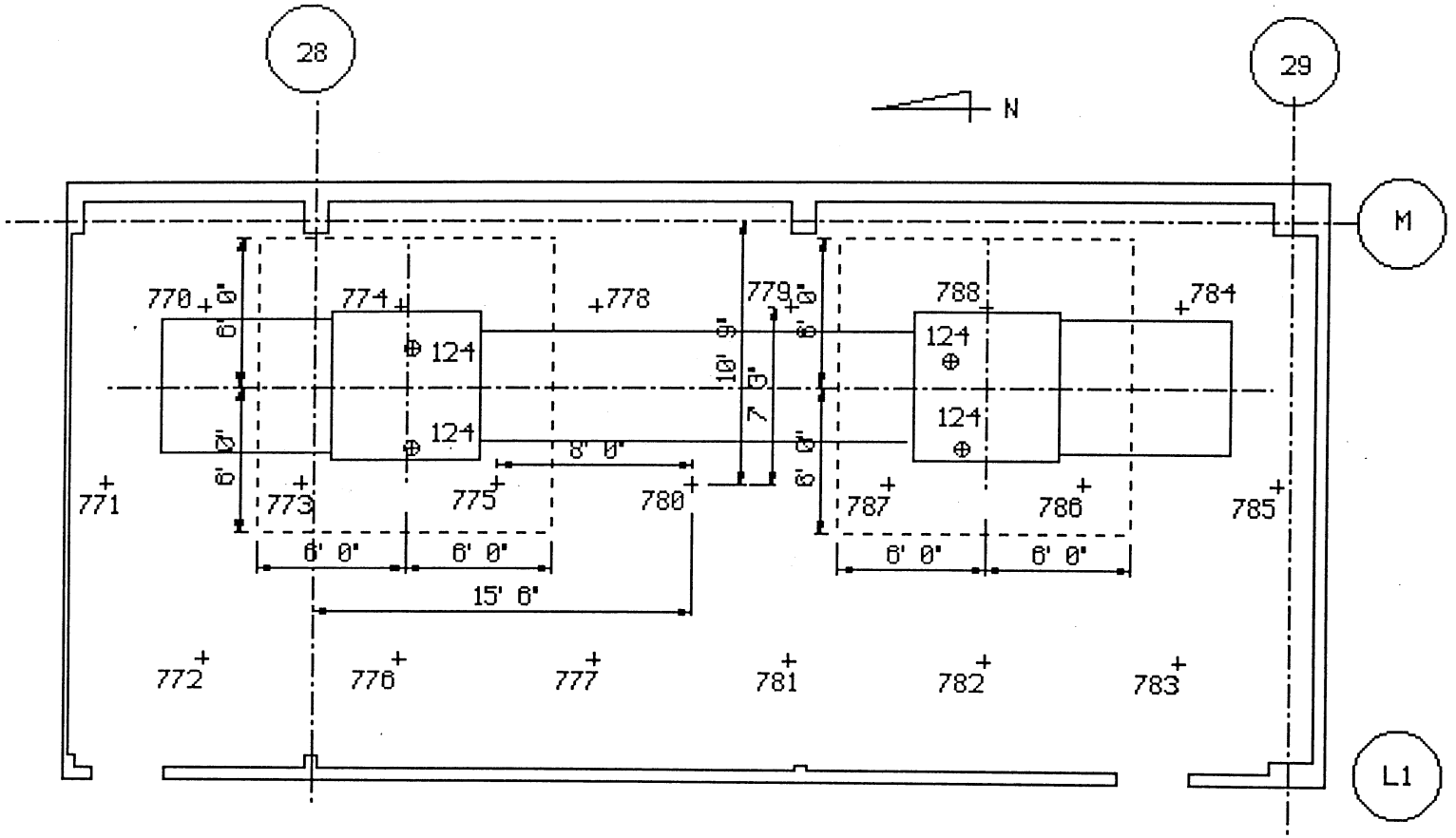
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	ND	330	ug/kg	330	8080

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

Amy Arno/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



10-53-54-55

SUBSTATION 402

SCARIFIED AREA

SAMPLE POINTS BEFORE SCARIFICATION 124

SAMPLE POINTS AFTER SCARIFICATION 770 THROUGH 788

COMPLETE FLOOR REMOVED

1W

General Motors Corporation

Sample #: L8100-2 (Project)

Description : #124 SUBSTATION 402

Collected: 10-DEC-93 Matrix: Solid Submitted: 10-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330000	ug/kg	330	8080
PCB-1221	ND	330000	ug/kg	330	8080
PCB-1232	ND	330000	ug/kg	330	8080
PCB-1242	ND	330000	ug/kg	330	8080
PCB-1248	ND	330000	ug/kg	330	8080
PCB-1254	ND	330000	ug/kg	330	8080
PCB-1260	1053900	330000	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	ND	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
TCLP Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.015	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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.
2350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (313) 477-9666 FAX (313) 477-8540

General Motors Corporation-Nodular

Sample #: L11062-7 (Project)

Description : #545 402 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	7060	3300	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8601

General Motors Corporation-Nodular

Sample #: L11062-8 (Project)

Description : #546 402 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
CB UG/KG (HL)					
CB-1016	ND	1320	ug/kg	330	8080
CB-1221	ND	1320	ug/kg	330	8080
CB-1232	ND	1320	ug/kg	330	8080
CB-1242	ND	1320	ug/kg	330	8080
CB-1248	ND	1320	ug/kg	330	8080
CB-1254	ND	1320	ug/kg	330	8080
CB-1260	2378	1320	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4641

General Motors Corporation-Nodular

Sample #: L11062-9 (Project)

Description : #547 402 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330000	ug/kg	330	8080
PCB-1221	ND	330000	ug/kg	330	8080
PCB-1232	ND	330000	ug/kg	330	8080
PCB-1242	ND	330000	ug/kg	330	8080
PCB-1248	ND	330000	ug/kg	330	8080
PCB-1254	ND	330000	ug/kg	330	8080
PCB-1260	1254633	330000	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-1923

General Motors Corporation-Nodular

Sample #: L11062-10 (Project)

Description : #548 402 SUB

Collected: 05-AUG-94 Matrix: Solid Submitted: 05-AUG-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330000	ug/kg	330	8080
PCB-1221	ND	330000	ug/kg	330	8080
PCB-1232	ND	330000	ug/kg	330	8080
PCB-1242	ND	330000	ug/kg	330	8080
PCB-1248	ND	330000	ug/kg	330	8080
PCB-1254	ND	330000	ug/kg	330	8080
PCB-1260	1291300	330000	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6066 FAX (810) 477-8911

General Motors Corporation-Nodular

Sample #: L13535-1 (Project)

Description : #770
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	21044	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4021

General Motors Corporation-Nodular

Sample #: L13535-2 (Project)

Description : #771
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

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	2146	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6600 FAX (810) 477-4644

General Motors Corporation-Nodular

Sample #: L13535-3 (Project)

Description : #772
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	14407	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-3636 FAX (810) 477-4684

General Motors Corporation-Nodular

Sample #: L13535-4 (Project)

Description : #773
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	11457	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4684

General Motors Corporation-Nodular

Sample #: L13535-5 (Project)

Description : #774
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-0696 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L13535-6 (Project)

Description : #775
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

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

Amy Arno/Martine Hurwitz
Project Managers

END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8894

General Motors Corporation-Nodular

Sample #: L13535-7 (Project)

Description : #776
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	189059	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 8684

General Motors Corporation-Nodular

Sample #: L13535-8 (Project)

Description : #777
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

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	673	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-[illegible] FAX (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L13535-9 (Project)

Description : #778
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	248952	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6669 FAX (810) 477-3604

General Motors Corporation-Nodular

Sample #: L13535-10 (Project)

Description : #779
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330000	ug/kg	330	8080
PCB-1221	ND	330000	ug/kg	330	8080
PCB-1232	ND	330000	ug/kg	330	8080
PCB-1242	ND	330000	ug/kg	330	8080
PCB-1248	ND	330000	ug/kg	330	8080
PCB-1254	ND	330000	ug/kg	330	8080
PCB-1260	2565750	330000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4684

General Motors Corporation-Nodular

Sample #: L13535-11 (Project)

Description : #780
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	257301	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4654

General Motors Corporation-Nodular

Sample #: L13535-12 (Project)

Description : #781
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	24057	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8651

General Motors Corporation-Nodular

Sample #: L13535-13 (Project)

Description : #782
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	963270	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4684

General Motors Corporation-Nodular

Sample #: L13535-14 (Project)

Description : #783
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	106920	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (810) 477-4804

General Motors Corporation-Nodular

Sample #: L13535-15 (Project)

Description : #784
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	219945	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477 6666 FAX (810) 477 4054

General Motors Corporation-Nodular

Sample #: L13535-16 (Project)

Description : #785
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	132429	33000	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4694

General Motors Corporation-Nodular

Sample #: L13535-17 (Project)

Description : #786
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	11154	3300	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) [illegible] FAX (810) 477-8605

General Motors Corporation-Nodular

Sample #: L13535-18 (Project)

Description : #787
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	3300	ug/kg	330	8080
PCB-1221	ND	3300	ug/kg	330	8080
PCB-1232	ND	3300	ug/kg	330	8080
PCB-1242	ND	3300	ug/kg	330	8080
PCB-1248	ND	3300	ug/kg	330	8080
PCB-1254	ND	3300	ug/kg	330	8080
PCB-1260	6138	3300	ug/kg	330	8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L13535-19 (Project)

Description : #788
SUB 402

Collected: 14-MAR-95 Matrix: Solid Submitted: 14-MAR-95

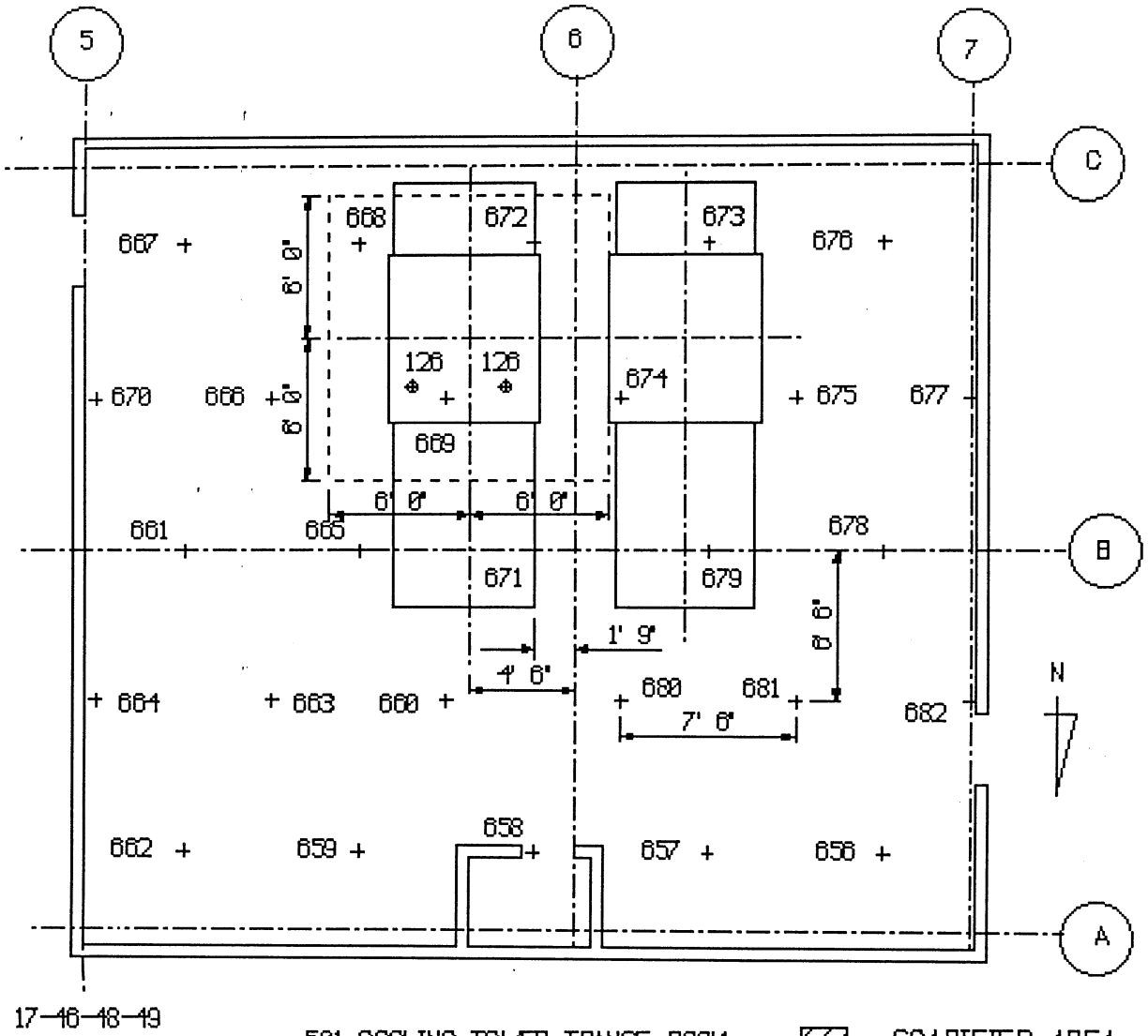
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	2329	330	ug/kg	330	8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8691



501 COOLING TOWER TRANSF. ROOM

SCARIFIED AREA

SAMPLE POINTS BEFORE SCARIFICATION 126

SAMPLE POINTS AFTER SCARIFICATION 656 THROUGH 682

General Motors Corporation

Sample #: L8088-5 (Project)

Description : #126 #501 COOLING TOWER

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	33000	ug/kg	330	8080
PCB-1221	ND	33000	ug/kg	330	8080
PCB-1232	ND	33000	ug/kg	330	8080
PCB-1242	ND	33000	ug/kg	330	8080
PCB-1248	ND	33000	ug/kg	330	8080
PCB-1254	ND	33000	ug/kg	330	8080
PCB-1260	111470	33000	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.441	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
P Chromium	.017	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.01	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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 (313) [illegible] FAX (313) [illegible]

General Motors Corporation-Nodular

Sample #: L11952-1 (Project)

Description : 656, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8432

General Motors Corporation-Nodular

Sample #: L11952-2 (Project)

Description : 657, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6665 FAX (810) 477-8651

General Motors Corporation-Nodular

Sample #: L11952-3 (Project)

Description : 658, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8593

General Motors Corporation-Nodular

Sample #: L11952-4 (Project)

Description : 659, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6066 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L11952-5 (Project)

Description : 660, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6660 FAX (810) 477-8341

General Motors Corporation-Nodular

Sample #: L11952-6 (Project)

Description : 661, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6900 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L11952-7 (Project)

Description : 662, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 471-[illegible] FAX (810) [illegible]

General Motors Corporation-Nodular

Sample #: L11952-8 (Project)

Description : 663, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6000 FAX (810) 477-7404

General Motors Corporation-Nodular

Sample #: L11952-9 (Project)

Description : 664, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24850 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8801

General Motors Corporation-Nodular

Sample #: L11952-10 (Project)

Description : 665, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8431

General Motors Corporation-Nodular

Sample #: L11952-19 (Project)

Description : 674, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6464 FAX (810) 477-4503

General Motors Corporation-Nodular

Sample #: L11952-20 (Project)

Description : 675, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/80
PCB-1254	ND	.2	ug/l	.1	1312/8
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477 6666 FAX (810) 477 4604

General Motors Corporation-Nodular

Sample #: L11952-21 (Project)

Description : 676, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6625 FAX (810) 477-4656

General Motors Corporation-Nodular

Sample #: L11952-22 (Project)

Description : 677, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-[illegible] FAX (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L11952-23 (Project)

Description : 678, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8004

General Motors Corporation-Nodular

Sample #: L11952-24 (Project)

Description : 679, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8603

General Motors Corporation-Nodular

Sample #: L11952-25 (Project)

Description : 680, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (800) 477-4691

General Motors Corporation-Nodular

Sample #: L11952-26 (Project)

Description : 681, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6620 FAX (810) 477-8648

General Motors Corporation-Nodular

Sample #: L11952-27 (Project)

Description : 682, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-8600 FAX (810) 477-8601

11-3-94

LECTROMELT FURNACE #1

ORIGINAL TEST COMPOSITE OF TWO LOCATIONS	12-10-93	#128	4.33 PPM
1ST SHOT PEENING AREA 1 (1/8")	3-9-94		
TEST SHOT PEENED AREA 1	3-22-94	#208	0.629 PPM
2ND SHOT PEENING ATTEMPT AREA 2 (1/8")	4-5-94		
TEST SHOT PEENED AREA 2	4-12-94	#210	ND
EPA TEST OF PARTIAL AREA POINTS 261 THROUGH 271	5-9-94	#261	1.075 PPM
		#265	1.869 PPM
		#266	0.996 PPM
		#267	0.520 PPM
		#271	7.370 PPM
SCARIFIED AREA 3 (1/2")	6-10-94		
TEST SCARIFIED AREA 3 POINTS 344 THROUGH 371	6-13-94	#355	1.25 PPM
		#357	0.340 PPM
		#363	1.900 PPM
		#369	1.650 PPM
SCARIFIED 4' SQUARE AREAS CENTERED ON POINTS 355, 357, 363 & 369 (1/2") AREA 4	7-1-94		
RETESTED 4' SQUARE AREAS AREA 4	1-25-94	#463	ND
		#464	ND
		#465	ND
		#466	ND

General Motors Corporation-Nodular

Sample #: L11952-21 (Project)

Description : 676, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-9660 FAX (810) 477-8601

General Motors Corporation-Nodular

Sample #: L11952-22 (Project)

Description : 677, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-[illegible] FAX (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L11952-23 (Project)

Description : 678, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L11952-24 (Project)

Description : 679, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L11952-25 (Project)

Description : 680, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOFLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (810) 477-4503

General Motors Corporation-Nodular

Sample #: L11952-26 (Project)

Description : 681, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8518

General Motors Corporation-Nodular

Sample #: L11952-27 (Project)

Description : 682, 501 COOLING TOWER

Collected: 14-OCT-94 Matrix: Solid Submitted: 14-OCT-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Amy Arno/Martine Hurwitz
Project Managers

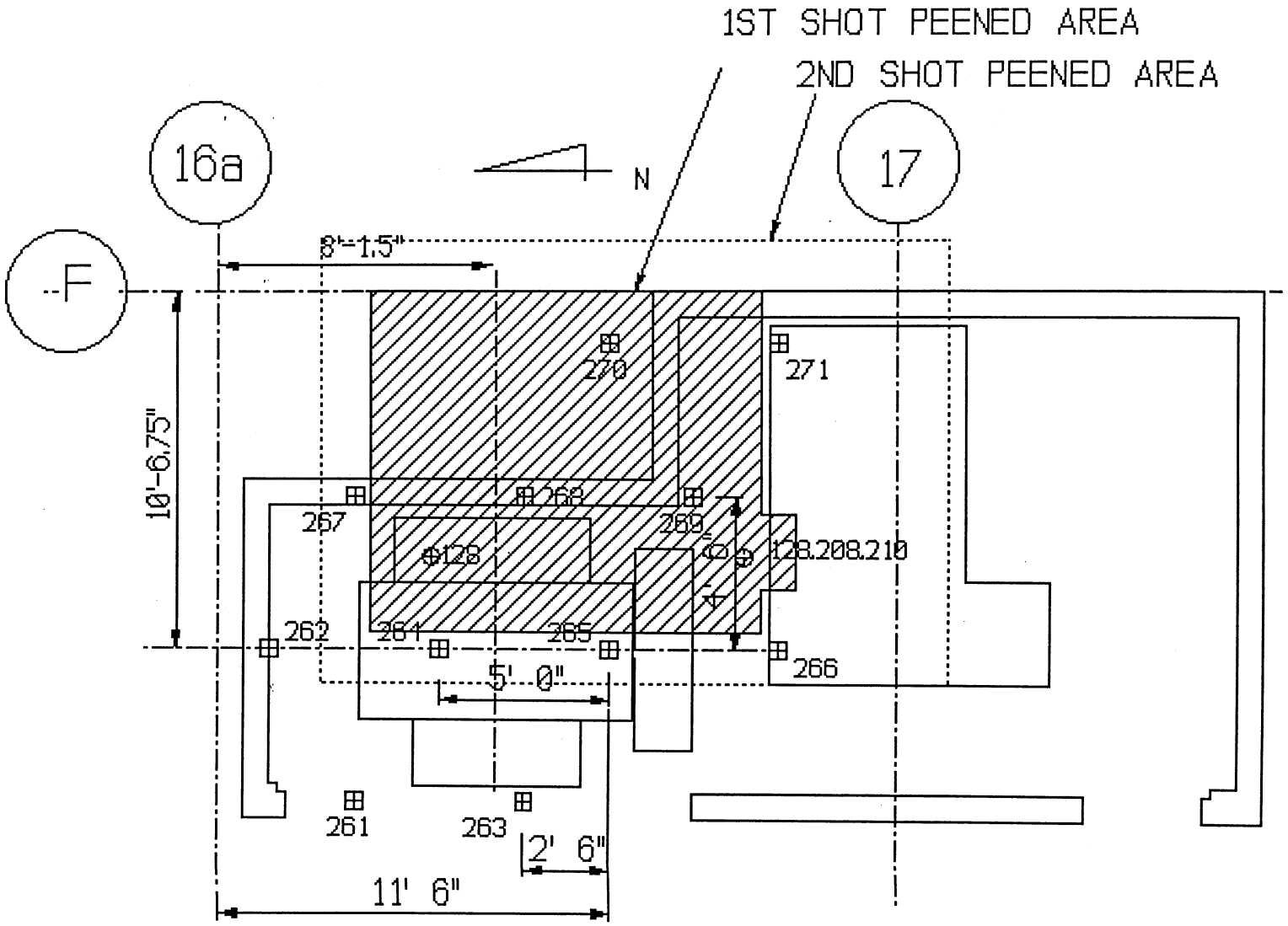
END OF REPORT

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (800) 477-4501

11-3-94

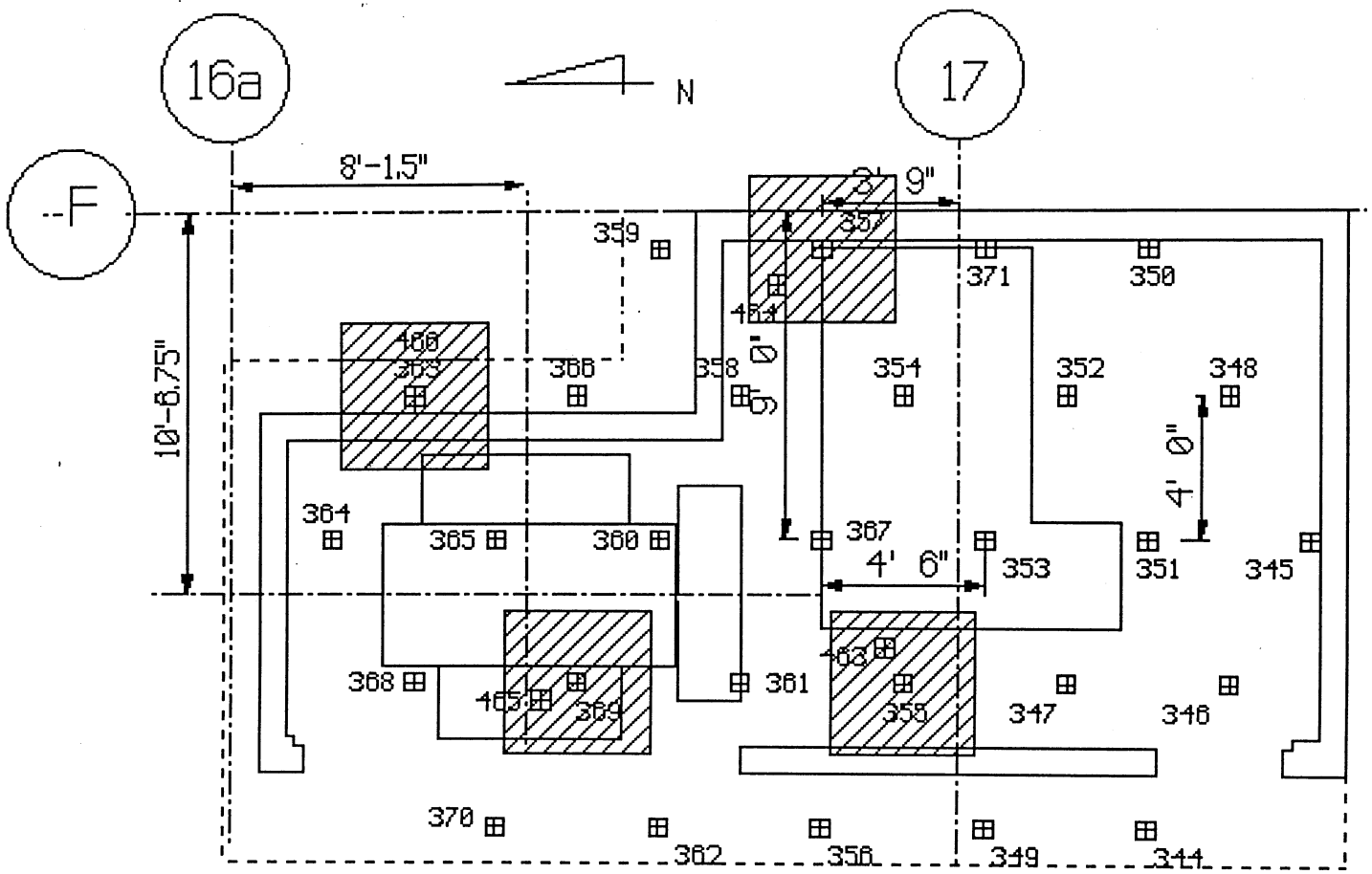
LECTROMELT FURNACE #1

ORIGINAL TEST COMPOSITE OF TWO LOCATIONS	12-10-93	#128	4.33 PPM
1ST SHOT PEENING AREA 1 (1/8")	3-9-94		
TEST SHOT PEENED AREA 1	3-22-94	#208	0.629 PPM
2ND SHOT PEENING ATTEMPT AREA 2 (1/8")	4-5-94		
TEST SHOT PEENED AREA 2	4-12-94	#210	ND
EPA TEST OF PARTIAL AREA POINTS 261 THROUGH 271	5-9-94	#261	1.075 PPM
		#265	1.869 PPM
		#266	0.996 PPM
		#267	0.520 PPM
		#271	7.370 PPM
SCARIFIED AREA 3 (1/2")	6-10-94		
TEST SCARIFIED AREA 3 POINTS 344 THROUGH 371	6-13-94	#355	1.25 PPM
		#357	0.340 PPM
		#363	1.900 PPM
		#369	1.650 PPM
SCARIFIED 4' SQUARE AREAS CENTERED ON POINTS 355, 357, 363 & 369 (1/2") AREA 4	7-1-94		
RETESTED 4' SQUARE AREAS AREA 4	1-25-94	#463	ND
		#464	ND
		#465	ND
		#466	ND



11-12-28-36-38
39-40-47-63

LECTROMELT FURNACE #1
SAMPLING GRID

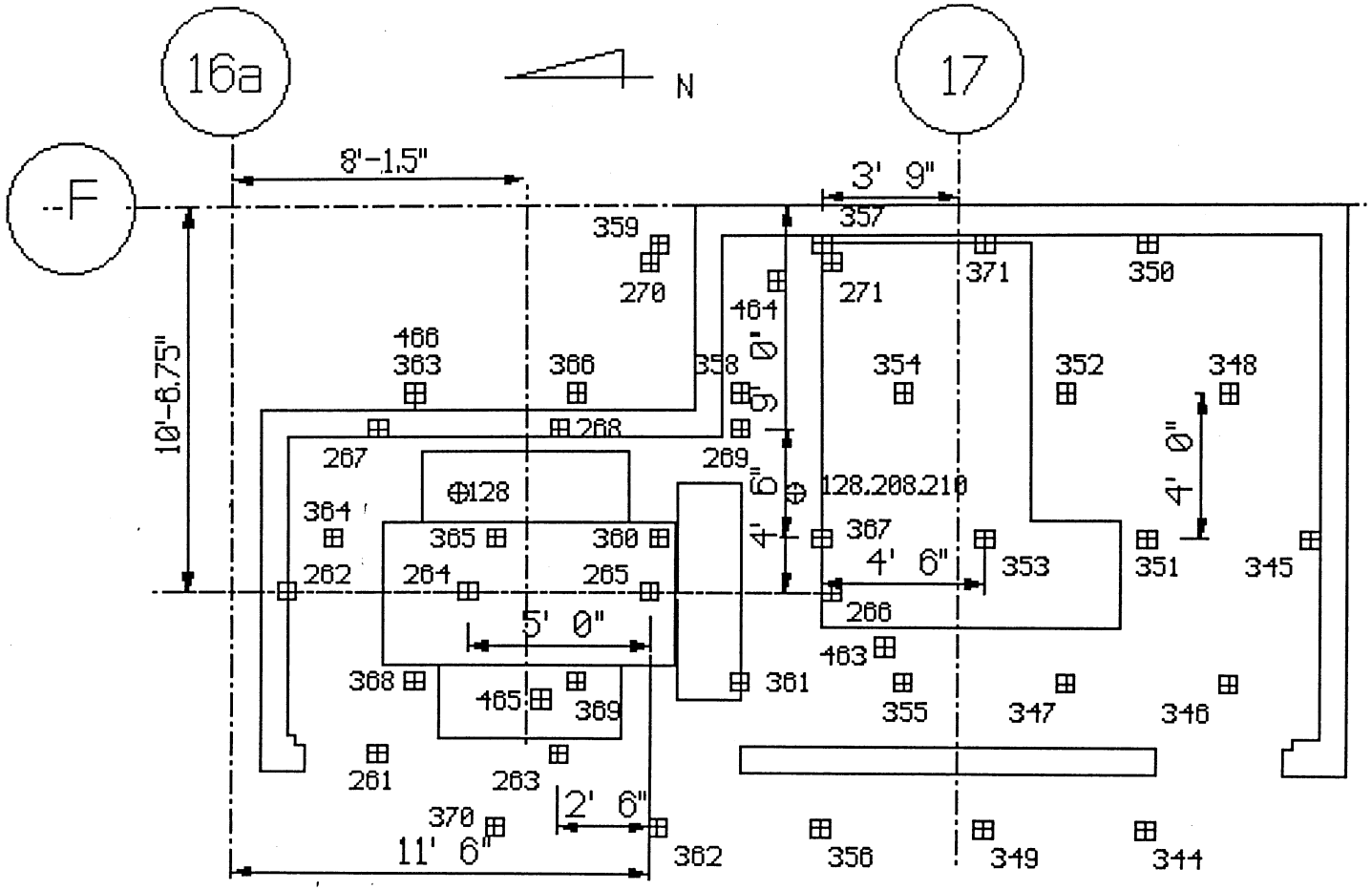


11-12-28-36-38
39-40-47-63

LECTROMELT FURNACE #1

SCARIFIED AREA 3

SCARIFIED AREA 4



11-12-28-36-38
39-40-47-63

LECTROMELT FURNACE #1
SAMPLING GRID

General Motors Corporation

Sample #: L8088-1 (Project)

Description : #128 #1 CUPOLA ARC

Main Floor

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
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	4330	330	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.271	.05	mg/l	.05	6010
TCLP Cadmium	.014	.003	mg/l	.003	6010
TCLP Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.01	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	8240

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) [illegible]

General Motors Corporation

Sample #: L9298-1 (Project)

Description : 128 RETAKE
#1 ARC FURNACE
TRANSFORMER ROOM
#208

Collected: 22-MAR-94 Matrix: Solid Submitted: 22-MAR-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	659	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Saginaw

Sample #: L9565-2 (Project)

Description : #210 #1 ARCH FURNACE TRANS

Collected: 12-APR-94 Matrix: Solid Submitted: 12-APR-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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L9911-1 (Project)

Description : #261 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	1075.4	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L9911-2 (Project)

Description : #262 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-3604

General Motors Corporation-Nodular

Sample #: L9911-3 (Project)

Description : #263 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6000 FAX (810) 477-3068

General Motors Corporation-Nodular

Sample #: L9911-4 (Project)

Description : #264 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-5666 FAX (810) 477-4601

General Motors Corporation-Nodular

Sample #: L9911-5 (Project)

Description : #265 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	1650	ug/kg	330	8080
PCB-1221	ND	1650	ug/kg	330	8080
PCB-1232	ND	1650	ug/kg	330	8080
PCB-1242	ND	1650	ug/kg	330	8080
PCB-1248	ND	1650	ug/kg	330	8080
PCB-1254	ND	1650	ug/kg	330	8080
PCB-1260	1869.8	1650	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4004

General Motors Corporation-Nodular

Sample #: L9911-6 (Project)

Description : #266 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	660	ug/kg	330	8080
PCB-1221	ND	660	ug/kg	330	8080
PCB-1232	ND	660	ug/kg	330	8080
PCB-1242	ND	660	ug/kg	330	8080
PCB-1248	ND	660	ug/kg	330	8080
PCB-1254	ND	660	ug/kg	330	8080
PCB-1260	996.3	660	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-6666 FAX (800) 477-6604

General Motors Corporation-Nodular

Sample #: L9911-7 (Project)

Description : #267 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-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	520.3	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L9911-8 (Project)

Description : #268 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc
24350 INDOPLEX CIRCLE, FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6000 FAX (810) 477-4606

General Motors Corporation-Nodular

Sample #: L9911-9 (Project)

Description : #269 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-4604

General Motors Corporation-Nodular

Sample #: L9911-10 (Project)

Description : #270 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	200	ug/kg	200	8080
PCB-1221	ND	200	ug/kg	200	8080
PCB-1232	ND	200	ug/kg	200	8080
PCB-1242	ND	200	ug/kg	200	8080
PCB-1248	ND	200	ug/kg	200	8080
PCB-1254	ND	200	ug/kg	200	8080
PCB-1260	ND	200	ug/kg	200	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (800) 477-[illegible] (313) (810) 477-[illegible]

General Motors Corporation-Nodular

Sample #: L9911-11 (Project)

Description : #271 #1 FURNACE

Collected: 09-MAY-94 Matrix: Solid Submitted: 09-MAY-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG (HL)					
PCB-1016	ND	1650	ug/kg	330	8080
PCB-1221	ND	1650	ug/kg	330	8080
PCB-1232	ND	1650	ug/kg	330	8080
PCB-1242	ND	1650	ug/kg	330	8080
PCB-1248	ND	1650	ug/kg	330	8080
PCB-1254	ND	1650	ug/kg	330	8080
PCB-1260	7370.5	1650	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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L10794-1 (Project)

Description : #344 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10794-2 (Project)

Description : #345 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 [illegible] FAX: 810-477-8561

General Motors Corporation-Nodular

Sample #: L10794-3 (Project)

Description : #346 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PLP PCB					
CB-1016	ND	.2	ug/l	.1	1312/8080
CB-1221	ND	.2	ug/l	.1	1312/8080
CB-1232	ND	.2	ug/l	.1	1312/8080
CB-1242	ND	.2	ug/l	.1	1312/8080
CB-1248	ND	.2	ug/l	.1	1312/8080
CB-1254	ND	.2	ug/l	.1	1312/8080
CB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-4 (Project)

Description : #347 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24850 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-3566 FAX (810) 477-7469

General Motors Corporation-Nodular

Sample #: L10794-5 (Project)

Description : #348 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-6 (Project)

Description : #349 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-7 (Project)

Description : #350 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24830 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-6666 FAX (810) 477-8431

General Motors Corporation-Nodular

Sample #: L10794-8 (Project)

Description : #351 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-9 (Project)

Description : #352 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10794-10 (Project)

Description : #353 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

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Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L10794-11 (Project)

Description : #354 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10794-12 (Project)

Description : #355 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

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Project Managers

END OF REPORT

General Motors Corporation-Nodular

Sample #: L10794-13 (Project)

Description : #356 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-14 (Project)

Description : #357 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-15 (Project)

Description : #358 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-16 (Project)

Description : #359 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-8866 FAX (810) 477-8895

General Motors Corporation-Nodular

Sample #: L10794-17 (Project)

Description : #360 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-18 (Project)

Description : #361 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
28350 Indoplex Circle Farmington Hills, Michigan 48331

General Motors Corporation-Nodular

Sample #: L10794-19 (Project)

Description : #362 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10794-20 (Project)

Description : #363 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-21 (Project)

Description : #364 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24950 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-5656 FAX (313) 477-8647

General Motors Corporation-Nodular

Sample #: L10794-22 (Project)

Description : #365 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-23 (Project)

Description : #366 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10794-24 (Project)

Description : #367 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24950 Hallwood Ct. Farmington Hills, Michigan 48335 (810) 477-6666 FAX (810) 477-8604

General Motors Corporation-Nodular

Sample #: L10794-25 (Project)

Description : #368 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
[illegible]

General Motors Corporation-Nodular

Sample #: L10794-26 (Project)

Description : #369 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-8666 FAX (810) 477-8693

General Motors Corporation-Nodular

Sample #: L10794-27 (Project)

Description : #370 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24850 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (810) 477-3600 FAX (810) 477-3604

General Motors Corporation-Nodular

Sample #: L10794-28 (Project)

Description : #371 #1 FURNACE

Matrix: Solid Submitted: 18-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 4833

General Motors Corporation-Nodular

Sample #: L10886-1 (Project)

Description : L10788-1, 463

Collected: 15-JUL-94 Matrix: Solid Submitted: 25-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
Total Lead	9.3	2.1	ug/g	2.1	6010
SEMIVOLATILES					
2-Chlorophenol	ND	1	ug/l	.7	1312/8270
2,4-Dichlorophenol	ND	1	ug/l	.7	1312/8270
(2,4) + (2,5)-Dimethylphenol	ND	1	ug/l	.7	1312/8270
2-Methylphenol	ND	1	ug/l	.7	1312/8270
4,6-Dinitro-2-methylphenol	ND	2	ug/l	1.4	1312/8270
3&4-Methylphenol	ND	1	ug/l	.7	1312/8270
Pentachlorophenol	3.3	1	ug/l	.7	1312/8270
Phenol	9.5	1	ug/l	.7	1312/8270
2,4,5-Trichlorophenol	ND	1	ug/l	.7	1312/8270
2,4,6-Trichlorophenol	ND	1	ug/l	.7	1312/8270
SPLP METALS					
SPLP Silver	ND	.004	mg/l	.004	1312/7761
SPLP Arsenic	ND	.001	mg/l	.001	1312/7062
SPLP Barium	.434	.05	mg/l	.05	1312/6010
SPLP Cadmium	ND	.0002	mg/l	.0002	1312/7131
SPLP Chromium	ND	.007	mg/l	.007	1312/6010
SPLP Copper	ND	.01	mg/l	.01	1312/6010
SPLP Mercury	ND	.0002	mg/l	.0002	1312/7470
SPLP Lead	.007	.001	mg/l	.001	1312/7421
SPLP Selenium	ND	.005	mg/l	.005	1312/7742
SPLP Zinc	.046	.02	mg/l	.02	1312/6010
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080

Analytic & Biological Laboratories, Inc.

4350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) 477-6966 FAX (313) 477-7404

General Motors Corporation-Nodular

Sample #: L10886-2 (Project)

Description : L10788-2, 464

Collected: 15-JUL-94 Matrix: Solid Submitted: 25-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SEMIVOLATILES					
2-Chlorophenol	ND	1	ug/l	.7	1312/8270
2,4-Dichlorophenol	ND	1	ug/l	.7	1312/8270
(2,4) + (2,5)-Dimethylphenol	ND	1	ug/l	.7	1312/8270
2-Methylphenol	ND	1	ug/l	.7	1312/8270
4,6-Dinitro-2-methylphenol	ND	2	ug/l	1.4	1312/8270
3&4-Methylphenol	ND	1	ug/l	.7	1312/8270
Pentachlorophenol	ND	1	ug/l	.7	1312/8270
Phenol	ND	1	ug/l	.7	1312/8270
2,4,5-Trichlorophenol	ND	1	ug/l	.7	1312/8270
2,4,6-Trichlorophenol	ND	1	ug/l	.7	1312/8270
SPLP METALS					
SPLP Silver	ND	.004	mg/l	.004	1312/7761
SPLP Arsenic	ND	.001	mg/l	.001	1312/7062
SPLP Barium	.418	.05	mg/l	.05	1312/6010
SPLP Cadmium	ND	.0002	mg/l	.0002	1312/7131
SPLP Chromium	.007	.007	mg/l	.007	1312/6010
SPLP Copper	ND	.01	mg/l	.01	1312/6010
SPLP Mercury	ND	.0002	mg/l	.0002	1312/7470
SPLP Lead	.004	.001	mg/l	.001	1312/7421
SPLP Selenium	ND	.005	mg/l	.005	1312/7742
SPLP Zinc	.035	.02	mg/l	.02	1312/6010
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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

Analytic & Biological Laboratories, Inc.
24350 INDOPLEX CIRCLE, FARMINGTON HILLS, MICHIGAN 48335

General Motors Corporation-Nodular

Sample #: L10886-3 (Project)

Description : L10788-3, 465

Collected: 15-JUL-94 Matrix: Solid Submitted: 25-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SEMIVOLATILES					
2-Chlorophenol	ND	1	ug/l	.7	1312/8270
2,4-Dichlorophenol	ND	1	ug/l	.7	1312/8270
(2,4) + (2,5)-Dimethylphenol	ND	1	ug/l	.7	1312/8270
2-Methylphenol	ND	1	ug/l	.7	1312/8270
4,6-Dinitro-2-methylphenol	ND	2	ug/l	1.4	1312/8270
3&4-Methylphenol	ND	1	ug/l	.7	1312/8270
Pentachlorophenol	3.3	1	ug/l	.7	1312/8270
Phenol	ND	1	ug/l	.7	1312/8270
2,4,5-Trichlorophenol	ND	1	ug/l	.7	1312/8270
2,4,6-Trichlorophenol	ND	1	ug/l	.7	1312/8270
SPLP METALS					
SPLP Silver	ND	.004	mg/l	.004	1312/7761
SPLP Arsenic	ND	.001	mg/l	.001	1312/7062
SPLP Barium	.416	.05	mg/l	.05	1312/6010
SPLP Cadmium	ND	.0002	mg/l	.0002	1312/7131
SPLP Chromium	ND	.007	mg/l	.007	1312/6010
SPLP Copper	ND	.01	mg/l	.01	1312/6010
SPLP Mercury	ND	.0002	mg/l	.0002	1312/7470
SPLP Lead	.004	.001	mg/l	.001	1312/7421
SPLP Selenium	ND	.005	mg/l	.005	1312/7742
SPLP Zinc	.029	.02	mg/l	.02	1312/6010
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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-Nodular

Sample #: L10886-4 (Project)

Description : L10788-4, 466

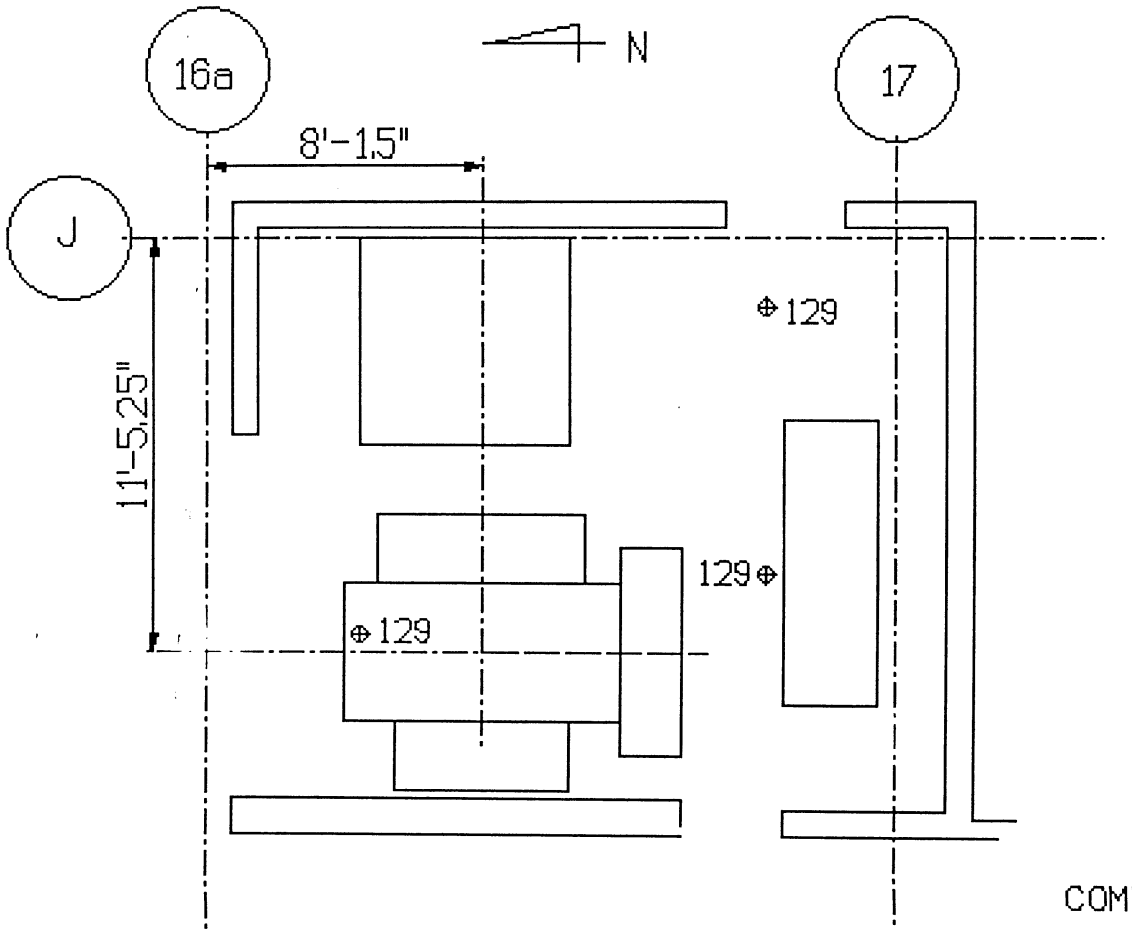
Collected: 15-JUL-94 Matrix: Solid Submitted: 25-JUL-94

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
SEMIVOLATILES					
2-Chlorophenol	ND	1	ug/l	.7	1312/8270
2,4-Dichlorophenol	ND	1	ug/l	.7	1312/8270
(2,4) + (2,5)-Dimethylphenol	ND	1	ug/l	.7	1312/8270
2-Methylphenol	ND	1	ug/l	.7	1312/8270
4,6-Dinitro-2-methylphenol	ND	2	ug/l	1.4	1312/8270
3&4-Methylphenol	ND	1	ug/l	.7	1312/8270
Pentachlorophenol	ND	1	ug/l	.7	1312/8270
Phenol	1900	1	ug/l	.7	1312/8270
2,4,5-Trichlorophenol	ND	1	ug/l	.7	1312/8270
2,4,6-Trichlorophenol	ND	1	ug/l	.7	1312/8270
SPLP METALS					
SPLP Silver	ND	.004	mg/l	.004	1312/7761
SPLP Arsenic	ND	.001	mg/l	.001	1312/7062
SPLP Barium	.491	.05	mg/l	.05	1312/6010
SPLP Cadmium	ND	.0002	mg/l	.0002	1312/7131
SPLP Chromium	.011	.007	mg/l	.007	1312/6010
SPLP Copper	ND	.01	mg/l	.01	1312/6010
SPLP Mercury	ND	.0002	mg/l	.0002	1312/7470
SPLP Lead	.002	.001	mg/l	.001	1312/7421
SPLP Selenium	ND	.005	mg/l	.005	1312/7742
SPLP Zinc	.035	.02	mg/l	.02	1312/6010
SPLP PCB					
PCB-1016	ND	.2	ug/l	.1	1312/8080
PCB-1221	ND	.2	ug/l	.1	1312/8080
PCB-1232	ND	.2	ug/l	.1	1312/8080
PCB-1242	ND	.2	ug/l	.1	1312/8080
PCB-1248	ND	.2	ug/l	.1	1312/8080
PCB-1254	ND	.2	ug/l	.1	1312/8080
PCB-1260	ND	.1	ug/l	.05	1312/8080

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



13

LECTROMELT FURNACE #2

COMPLETE FLOOR
REMOVED

General Motors Corporation

Sample #: L8088-2 (Project)

Description : #129 #2 CUPOLA ARC

Main Floor

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

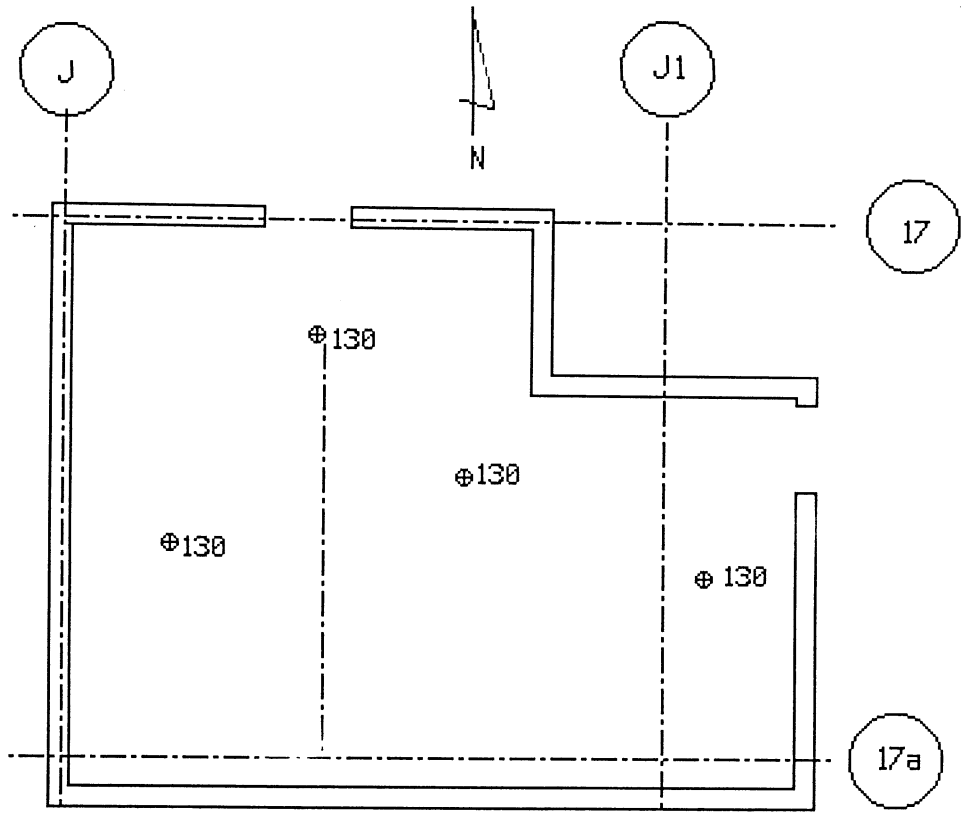
PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	330	ug/kg	330	8080
PCB-1221	ND	330	ug/kg	330	8080
PCB-1232	ND	330	ug/kg	330	8080
PCB-1242	ND	330	ug/kg	330	8080
PCB-1248	ND	330	ug/kg	330	8080
PCB-1254	ND	330	ug/kg	330	8080
PCB-1260	1120	330	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	ND	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
P Chromium	ND	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	.13	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.01	mg/l	.01	8240
1,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
1,2-Dichloroethane	ND	.001	mg/l	.001	8240
1,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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 (313) 478-6666 FAX (313) 478-6611



COMPLETE FLOOR

REMOVED

37

NEW NO. 3 TRANSFORMER ROOM

General Motors Corporation

Sample #: L8088-3 (Project)

Description : #130 #3 CUPOLA ARC

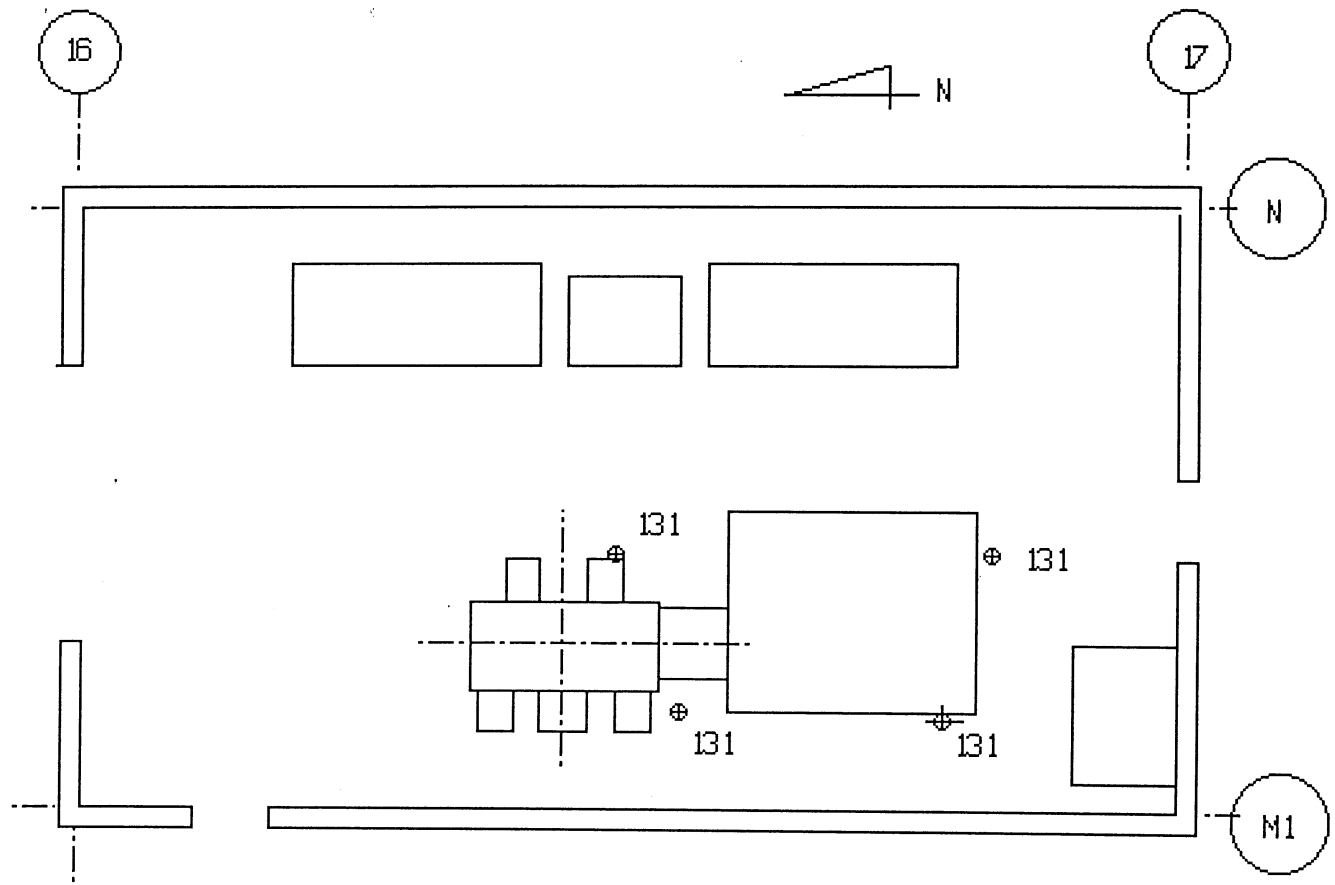
Tapping Deck

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

ARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
'CB UG/KG					
'CB-1016	ND	33000	ug/kg	330	8080
'CB-1221	ND	33000	ug/kg	330	8080
'CB-1232	ND	33000	ug/kg	330	8080
'CB-1242	ND	33000	ug/kg	330	8080
'CB-1248	ND	33000	ug/kg	330	8080
'CB-1254	ND	33000	ug/kg	330	8080
'CB-1260	188600	33000	ug/kg	330	8080
'CLP METALS					
'CLP Arsenic	ND	.053	mg/l	.053	6010
'CLP Barium	.166	.05	mg/l	.05	6010
'CLP Cadmium	ND	.003	mg/l	.003	6010
P Chromium	.01	.007	mg/l	.007	6010
CLP Copper	ND	.01	mg/l	.01	6010
'CLP Lead	ND	.042	mg/l	.042	6010
'CLP Mercury	ND	.005	mg/l	.005	7470
'CLP Selenium	ND	.075	mg/l	.075	6010
'CLP Silver	ND	.007	mg/l	.007	6010
'CLP Zinc	ND	.05	mg/l	.05	6010
'CLP VOLATILES					
enzene	ND	.001	mg/l	.001	8240
arbon Tetrachloride	ND	.001	mg/l	.001	8240
hlorobenzene	ND	.001	mg/l	.001	8240
hloroform	ND	.01	mg/l	.01	8240
,4-Dichlorobenzene	.024	.001	mg/l	.001	8240
,2-Dichloroethane	ND	.001	mg/l	.001	8240
,1-Dichloroethene	ND	.001	mg/l	.001	8240
ethyl ethyl ketone	ND	.01	mg/l	.01	8240
etrachloroethene	ND	.001	mg/l	.001	8240
richloroethene	ND	.001	mg/l	.001	8240

Analytic & Biological Laboratories, Inc.

24350 INDOPLEX CIRCLE FARMINGTON HILLS, MICHIGAN 48335 (313) [illegible] FAX (313) [illegible]



#4 CUPOLA ARC - 8 & 9 AJAX FURNACES

COMPLETE FLOOR

REMOVED

General Motors Corporation

Sample #: L8088-6 (Project)

Description : #131 #4 CUPOLA ARC

131 8 & 9 Ajax

Collected: 09-DEC-93 Matrix: Solid Submitted: 10-DEC-93

PARAMETERS	RESULT	PQL	UNITS	MDL	METHOD
PCB UG/KG					
PCB-1016	ND	16500	ug/kg	330	8080
PCB-1221	ND	16500	ug/kg	330	8080
PCB-1232	ND	16500	ug/kg	330	8080
PCB-1242	ND	16500	ug/kg	330	8080
PCB-1248	ND	16500	ug/kg	330	8080
PCB-1254	ND	16500	ug/kg	330	8080
PCB-1260	45500	16500	ug/kg	330	8080
TCLP METALS					
TCLP Arsenic	ND	.053	mg/l	.053	6010
TCLP Barium	.187	.05	mg/l	.05	6010
TCLP Cadmium	ND	.003	mg/l	.003	6010
P Chromium	.024	.007	mg/l	.007	6010
TCLP Copper	ND	.01	mg/l	.01	6010
TCLP Lead	ND	.042	mg/l	.042	6010
TCLP Mercury	ND	.005	mg/l	.005	7470
TCLP Selenium	ND	.075	mg/l	.075	6010
TCLP Silver	ND	.007	mg/l	.007	6010
TCLP Zinc	ND	.05	mg/l	.05	6010
TCLP VOLATILES					
Benzene	ND	.001	mg/l	.001	8240
Carbon Tetrachloride	ND	.001	mg/l	.001	8240
Chlorobenzene	ND	.001	mg/l	.001	8240
Chloroform	ND	.01	mg/l	.01	8240
,4-Dichlorobenzene	ND	.001	mg/l	.001	8240
,2-Dichloroethane	ND	.001	mg/l	.001	8240
,1-Dichloroethene	ND	.001	mg/l	.001	8240
Methyl ethyl ketone	ND	.01	mg/l	.01	8240
Tetrachloroethene	ND	.001	mg/l	.001	8240
Trichloroethene	ND	.001	mg/l	.001	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 (313) 477-6656 FAX (313) 477-8411

Appendix 13

Appendix 13.1
Available Laboratory Analytical Data
Primary Setting Basin Sediment

Waste Charaterization Study of Foundry Process Solid Wastes

January 1984

Revised February 1984

Residuals Management Technology, Inc.

1406 East Washington Avenue
Suite 124
Madison, Wisconsin 53703
(608) 255-2134

WASTE CHARACTERIZATION STUDY FOR FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
SAGINAW NODULAR AND GREY IRON
CASTING PLANTS

January 1984

Revised February 1984

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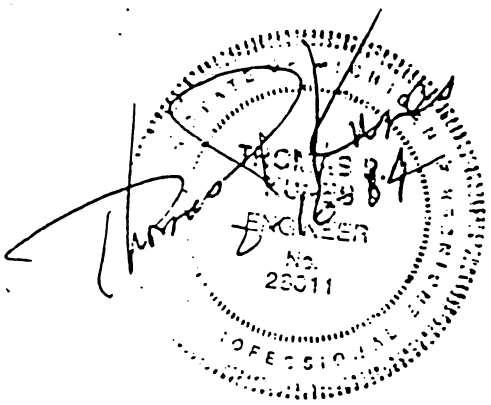

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TABLE III
ASTM LEACHING TEST RESULTS ON WASTES
TO GO TO TYPE III LANDFILL

PARAMETER[1]	DRINKING WATER STANDARDS	PRIMARY SETTLING LAGOON #2 SLUDGE	PRIMARY SETTLING LAGOON #3 SLUDGE	CALCIUM CARBIDE DESULFURI-ZATION SLAG	COMPOSITE DESULFURI-ZATION SLAG AND LAGOON SLUDGE[6]
Arsenic	0.05[2]	0.023	0.011	1.60	0.101
Barium	1.0[2]	< 0.2	< 0.2	< 0.2	< 0.2
Cadmium	0.01[2]	< 0.01	< 0.01	< 0.01	< 0.01
Chromium (Total)	0.05[2]	< 0.05	< 0.05	0.10	< 0.05
Cyanide	0.2[5]	< 0.02	< 0.02	< 0.02	0.06
Copper	1.0[3]	< 0.02	< 0.02	< 0.02	< 0.02
Fluoride	1.4 - 2.4[2]	27.5	30.0	0.95	10.1
Lead	0.05[2]	0.010	0.011	< 0.005	0.018
Mercury	0.002[2]	< 0.0002	< 0.0002	< 0.0002	< 0.0002
Selenium	0.01[2]	0.009	< 0.001	0.048	0.004
Silver	0.05[2]	< 0.02	< 0.02	< 0.02	< 0.02
Zinc	5.0[3]	0.08	0.12	0.14	0.04
pH	6.5 - 8.5[3]	9.6	9.4	12.1	11.6
Phenols	3.5[4]	0.292	0.240	4.4	1.4

(D130)

1. All values in mg/l except pH
2. 40 CFR 141.11 - National Interim Primary Drinking Water Regulations
3. 40 CFR 143.3 - National Secondary Drinking Water Regulations
4. 45 FR 79338 - Human health criteria developed under the Clean Water Act
5. Federal Register, Vol. 45, No. 231, November 28, 1980, page 79331.
6. Composite sample of treated calcium carbide desulfurization slag and primary lagoon sludge was prepared in the lab on the basis of the estimated ratios of generation by weight (2.5% desulfurization slag and 97.5% sludge)

TABLE VI
EP TOXICITY LEACHING TEST RESULTS ON WASTES
TO GO TO TYPE III LANDFILL

PARAMETER	MDNR HAZARDOUS WASTE LIMITS[1,2]	PRIMARY SETTLING LAGOONS (2 & 3) SLUDGE COMPOSITE	CALCIUM CARBIDE DESULFURIZATION SLAG	COMPOSITE OF SLUDGE WASTES & DESULFURIZATION SLAG (4 & 6)[3]
Arsenic	5.0	0.003	.66	0.014
Barium	100.0	< 0.2	< 0.2	< 0.2
Cadmium	1.0	< 0.01	< 0.01	< 0.01
Copper	100	< 0.02	< 0.02	< 0.02
Chromium (total)	5.0	< 0.05	0.08	< 0.05
Cyanide	20.00	< 0.02	0.04	0.03
Lead	5.0	< 0.8	< 0.1	0.9
Mercury	0.2	< 0.0002	< 0.0002	< 0.0002
Selenium	1.0	< 0.001	0.026	< 0.001
Silver	5.0	< 0.02	< 0.02	< 0.02
Zinc	500.0	235	0.03	223
pH	--	5.0	12.1	4.9

(D130)

1. From MDNR R 299.6315 Table 303

2. All results in mg/l

3. Composite sample of treated calcium carbide desulfurization slag and primary settling lagoon sludge was prepared in the lab on the basis of the estimated ratios of generation by weight (2.5% desulfurization slag and 97.5% sludge).

TABLE VII

TOTAL PCB ANALYSIS TEST RESULTS ON WASTES

WASTE	PCB (dry weight, ppm as Aroclor #1242)
Metals Reclamation Residuals Pile	0.18
Grey Iron Core Waste Composite (Isocure, Oil, Shell & Hot Box)	< 0.1
Classified Sand Pile	< 0.1
Primary Settling Lagoon #2	0.54
Primary Settling Lagoon #3	0.45

Waste Charaterization Study of Foundry Process Solid Wastes January 1986

RIR 788-94
FEBRUARY 14 1994

RMT INC

NW-1
NW-17
NW-18
NW-6
NW-7
NW-11

WASTE CHARACTERIZATION STUDY OF FOUNDRY PROCESS SOLID WASTES

GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION

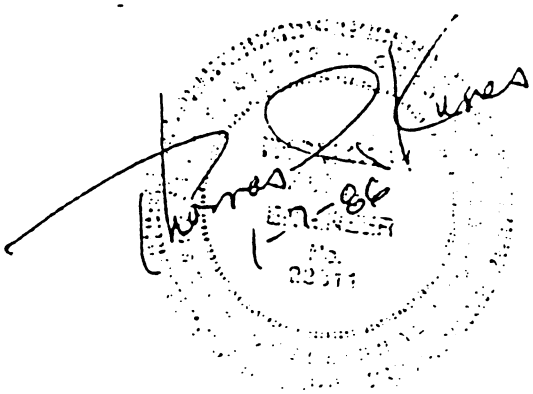
NODULAR IRON CASTING PLANT
SAGINAW MICHIGAN

JANUARY 1986

James E. Vondracek
Project Engineer

William A. Stephens, P.E.
Manager of Engineering

Thomas P. Kunes, P.E.
Executive Vice President



129.04 926:RPTa:Saginaw

EPA FOIA REQUEST
RIN 768-94
FEBRUARY 14 '94

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw

DATE: 4/2/85

PROJECT #: 129.02

P.O. #: 8260

SAMPLE #: 9789

SAMPLE DESCRIPTION: Sludge Composite--Equal Parts of 11 Sludge Samples (2/4-8/85)

COMPOSITIONAL ANALYSIS

PARAMETER	CONCENTRATION	UNITS
TOTAL PCB'S (Aroclor 1242)	0.32	mg/kg dry wt.

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

EPA FOIA REQUEST
RIN 708-94
FEBRUARY 14 1994

2 0400

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

DATE: 4/2/85

CLIENT: GMC-CFD-Saginaw

P.O. #: 8260

PROJECT #: 129.04

SAMPLE #S: 9789

SAMPLE DESCRIPTION: Sludge Composite - Equal Parts of 11 Sludge Samples (2/4-8/85)

ASTM LEACH TEST

PARAMETER	RESULT	UNITS
Arsenic	0.018	mg/l
Barium	0.8	mg/l
Cadmium	< 0.01	mg/l
Chromium, Total	< 0.05	mg/l
COD	92	mg/l
Copper	< 0.02	mg/l
Cyanide, Total	0.03	mg/l
Fluoride	19.7	mg/l
Lead	< 0.005	mg/l
Mercury	< 0.0002	mg/l
pH	9.9	pH Units
Phenols	0.729	mg/l
Selenium	0.006	mg/l
Silver	< 0.02	mg/l
TOC	35.2	mg/l
Zinc	0.03	mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

USEPA FOIA REQUEST
RIN 7689-94
FEBRUARY 14, 1994

RESIDUALS MANAGEMENT TECHNOLOGY, INC.

LABORATORY REPORT

CLIENT: GMC-CFD-Saginaw DATE: 4/2/85

PROJECT #: 129.04 P.O. #: 8260

SAMPLE #: 9789

SAMPLE DESCRIPTION: Sludge Composite - Equal Parts of 11 Sludge Samples (2/4-8/85)

EP TOXICITY TEST

WEIGHT USED: 100.5 grs. INITIAL PH: 10.0 FINAL PH: 5.0 ACID USED: 215 mls

PARAMETER	RESULT (mg/l)	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	0.8	100.0 mg/l
CADMIUM	0.1	1.0 mg/l
CHROMIUM-TOTAL	< 0.05	5.0 mg/l
LEAD	0.2	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.001	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	0.02	100.0 mg/l
CYANIDE	< 0.02	20.0 mg/l
ZINC	264	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980, Federal Register, 40 CFR 261.

Summary Report:
Sampling and Analysis
July 1987

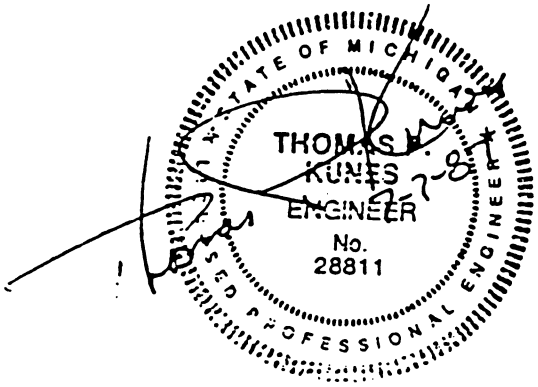
RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
NODULAR IRON CASTING PLANT
SAGINAW, MICHIGAN

July 1987



Thomas J. Janecek
Process Consultant

Robert E. Zayko, P.E.
Vice President, Northern Region

Thomas P. Kunes, P.E.
President, Northern Region

1125.07 nodular-29

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1125.07
RMT SAMPLE #: 22020
DESCRIPTION: C-1 Lagoon Sludge

SAMPLE DATE: 2/23-24/87
REPORT DATE: 3/30/87
TOTAL # PAGES: 1
P.O. #: 030387-1125
FILE NAME: SAG001EP

EP TOXICITY TEST

INITITAL SAMPLE WEIGHT(grs): 105.2
FILTERED SAMPLE WEIGHT(grs): 94.9

INITIAL PH: 10.0
FINAL PH: 4.9
ACID USED(mls): 270

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.001	5.0 mg/l
BARIUM	1.0	100.0 mg/l
CADMIUM	0.02	1.0 mg/l
CHROMIUM-TOTAL	0.13	5.0 mg/l
LEAD	0.5	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	0.002	1.0 mg/l
SILVER	< 0.02	5.0 mg/l
COPPER	< 0.02	100.0 mg/l
ZINC	0.25	500.0 mg/l

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Environmental Protection Agency requirements as outlined in the May 19, 1980 Federal Register, 40 CFR 261.

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW NODULAR
PROJECT #: 01125.07
SAMPLE NUMBER :22020

DATE: 03/31/87
P.O. #: 030387-0112507
SAMPLE DATE: 2/23-24/87

SAMPLE DESCRIPTION: LAGOON SLUDGE C-1

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.080	mg/kg dry wt.
AROCLOR - 1221	<0.080	mg/kg dry wt.
AROCLOR - 1232	<0.080	mg/kg dry wt.
AROCLOR - 1242	0.75	mg/kg dry wt.
AROCLOR - 1248	<0.080	mg/kg dry wt.
AROCLOR - 1254	<0.16	mg/kg dry wt.
AROCLOR - 1260	<0.16	mg/kg dry wt.

Paul E. Duranceau

aul E. Duranceau, Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw
PROJECT #: 1125.07
RMT SAMPLE #: 22020
DESCRIPTION: C-1 Lagoon Sludge

SAMPLE DATE: 2/23-24/87
REPORT DATE: 3/30/87
TOTAL # PAGES: 1
P.O. #: 030387-112807
FILE NAME: SAG001AS

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	0.016	mg/l
Barium	< 0.02	mg/l
COD	60	mg/l
Cadmium	< 0.005	mg/l
Chromium, Total	< 0.005	mg/l
Copper	< 0.02	mg/l
Cyanide, Total	< 0.040	mg/l
Fluoride	4.0	mg/l
Lead	0.031	mg/l
Mercury	0.0004	mg/l
Phenols	1.21	mg/l
Selenium	0.003	mg/l
Silver	< 0.02	mg/l
Total Organic Carbon	21	mg/l
Zinc	0.25	mg/l
pH (lab)	9.9	pH units

Paul E. Duranceau

Paul E. Duranceau, Laboratory Director

Summary Report:
Sampling and Analysis
January 1988

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837-0447
Phone: 517-627-4044

SUMMARY REPORT: SAMPLING AND ANALYSIS OF FOUNDRY PROCESS SOLID WASTES

PREPARED FOR:
GENERAL MOTORS CORPORATION
CENTRAL FOUNDRY DIVISION
GREY IRON CASTING PLANT
SAGINAW, MICHIGAN

PREPARED BY:
RMT, INC.
GRAND LEDGE, MICHIGAN

January 1988

James A. Nehls
Group Leader, Technical Services

Thomas J. Jancek
Project Manager

Robert E. Zayko, P.E.
Vice President, Northern Region

1073.10:104 greyiron-39

RMT Inc.

CLIENT: GMC-CFD
PROJECT #: 1073.10
RMT SAMPLE #: 27217
DESCRIPTION: SNI Lagoon

SAMPLE DATE: 10/20/87
REPORT DATE: 12/07/87
TOTAL # PAGES: 1
P.O. #: 102787-0107310
FILE NAME: GMC005AS
Revised & Reissued: 12/30/87

ASTM LEACH TEST

PARAMETERS	RESULT	UNITS
Arsenic	0.054	mg/l
Barium	0.02	mg/l
Cadmium	< 0.004	mg/l
Chromium, Total	< 0.01	mg/l
COD	83	mg/l
Copper	< 0.01	mg/l
Cyanide, Total	< 0.10	mg/l
Fluoride	1.6	mg/l
Lead	0.025	mg/l
Mercury	< 0.0002	mg/l
pH	10.1	pH units
Phenols	1.4	mg/l
Selenium	0.010	mg/l
Silver	< 0.01	mg/l
Total Organic Carbon	25	mg/l
Zinc	0.17	mg/l

Kenneth C Rummer
Paul E. Duranceau, Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD
PROJECT #: 1073.10
RMT SAMPLE #: 27217
DESCRIPTION: Lagoon Sediment

SAMPLE DATE: 10/20/87
REPORT DATE: 12/04/87
TOTAL # PAGES: 1
P.O. #: 102787-0107310
FILE NAME: GMC002ME
Revised & Reissued: 01/13/88

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.9
FINAL PH: 4.8
ACID USED(mls): 235

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.003	5.0 mg/l
BARIUM	0.68	100.0 mg/l
CADMIUM	0.017	1.0 mg/l
CHROMIUM, TOTAL	0.01	5.0 mg/l
LEAD	1.3	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.003	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	< 0.01	100.0 mg/l
ZINC	300	500.0 mg/l

Kenneth A. Brunner
Paul E. Duranceau, Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

Annual Sampling of Solid Wastes
February 1989

RMT INC.

Great Lakes Office
325 S. Clinton Street
P.O. Box 447
Grand Ledge, MI 48837
Phone: 517-627-4044
FAX: 517-627-1284

GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

February 1989

James A. Mehls
Group Leader, Technical Services

James R. Burns, P.E.
Project Engineer

Thomas J. Jancek
Project Manager

1073.22 Test-60

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34090

DATE: 11/04/88
W.O. #: 101988-010732
SAMPLE DATE: 10/12/88

SAMPLE DESCRIPTION: LAGOON-1 (LAGOON #3)

PCB ANALYSIS REPORT

PARAMETER	RESULT	UNITS
AROCLOR - 1016	<0.5	mg/kg dry wt.
AROCLOR - 1221	<0.5	mg/kg dry wt.
AROCLOR - 1232	<0.5	mg/kg dry wt.
AROCLOR - 1242	<0.5	mg/kg dry wt.
AROCLOR - 1248	<0.5	mg/kg dry wt.
AROCLOR - 1254	<0.5	mg/kg dry wt.
AROCLOR - 1260	<0.5	mg/kg dry wt.

Laboratory Director

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34090

DATE: 10/30/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/12/88

SAMPLE DESCRIPTION: LAGOON-4 (LAGOON #3)

VOLATILE ORGANIC ANALYSIS REPORT

PARAMETER	RESULT	UNITS
METHYLENE CHLORIDE	<5.0	ug/kg dry wt.
CHLOROFORM	<2.5	ug/kg dry wt.
1,1,1-TRICHLOROETHANE	<10	ug/kg dry wt.
BENZENE	2600	ug/kg dry wt.
TOLUENE	1600	ug/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34090
DESCRIPTION: Lagoon - 4 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI002ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 8.9
FINAL PH: 4.8
ACID USED(mls): 234

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.84	100.0 mg/l
CADMIUM	0.099	1.0 mg/l
CHROMIUM, TOTAL	0.02	5.0 mg
LEAD	3.0	5.0 mg/l
MERCURY	0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	0.09	100.0 mg/l
ZINC	270	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of t the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34091
DESCRIPTION: Lagoon - 7 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI018CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	9.2	mg/kg dry wt.
Barium, Total	170	mg/kg dry wt.
Cadmium, Total	5.3	mg/kg dry wt.
Chromium, Total	200	mg/kg dry wt.
Copper, Total	130	mg/kg dry wt.
Lead, Total	910	mg/kg dry wt.
Mercury, Total	< 0.18	mg/kg dry wt.
Selenium, Total	< 1.4	mg/kg dry wt.
Silver, Total	< 2.0	mg/kg dry wt.
Solids, Total	57	mg/kg dry wt.
Zinc, Total	27000	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34090
DESCRIPTION: Lagoon - 4 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 2
P.O. #: 101988-0107322
FILE NAME: SGI017CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Antimony, Total	< 12	mg/kg dry wt.
Arsenic, Total	8.6	mg/kg dry wt.
Barium, Total	150	mg/kg dry wt.
Beryllium, Total	< 1	mg/kg dry wt.
Cadmium, Total	6.8	mg/kg dry wt.
Chloride, Dissolved	270	mg/l
Chromium, Total	150	mg/kg dry wt.
Cobalt, Total	6.8	mg/kg dry wt.
Copper, Total	100	mg/kg dry wt.
Cyanide, Total	7.0	mg/kg dry wt.
Fluoride, Total	250	mg/kg dry wt.
Lead, Total	1200	mg/kg dry wt.
Lithium, Total	10	mg/kg dry wt.
Mercury, Total	< 0.17	mg/kg dry wt.
Nickel, Total	33	mg/kg dry wt.
Phenols	86	mg/kg dry wt.
Selenium, Total	< 1.6	mg/kg dry wt.

PRIMARY LAGOON SLUDGE
Compositional Analysis

PARAMETER	SAMPLE GRID 1	GRID 4	GRID 7	$\bar{x}$	S
Arsenic	9.70	8.60	9.20	9.20	0.55
Barium	150.00	150.00	170.00	156.70	11.50
Cadmium	6.60	6.80	5.30	6.20	0.81
Chromium	160.00	150.00	200.00	170.00	26.40
Copper	120.00	100.00	130.00	116.70	15.30
Lead	1400.00	1200.00	910.00	1170.00	246.40
Mercury	<0.17	<0.17	<0.18	<0.173	<0.006
Selenium	<1.5	<1.6	<1.4	<1.5	<0.1
Silver	<2.0	<2.00	<2.00	<2.00	--
Solids	53.00	50.00	57.00	53.30	3.50
Zinc	29000	34000	27000	30000	3606

LAGNCOMP D#1 1073.03

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34089
DESCRIPTION: Lagoon - 1 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI016CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Arsenic, Total	9.7	mg/kg dry wt.
Barium, Total	150	mg/kg dry wt.
Cadmium, Total	6.6	mg/kg dry wt.
Chromium, Total	160	mg/kg dry wt.
Copper, Total	120	mg/kg dry wt.
Lead, Total	1400	mg/kg dry wt.
Mercury, Total	< 0.17	mg/kg dry wt.
Selenium, Total	< 1.5	mg/kg dry wt.
Silver, Total	< 2.0	mg/kg dry wt.
Solids, Total	53	mg/kg dry wt.
Zinc, Total	29000	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT:	GMC Saginaw Grey Iron	SAMPLE DATE:	10/12/88
PROJECT #:	1073.22	REPORT DATE:	11/14/88
RMT SAMPLE #:	34090	TOTAL # PAGES:	2
DESCRIPTION:	Lagoon - 4 (Lagoon #3)	P.O. #:	101988-0107322
		FILE NAME:	SGI017CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Silver, Total	< 2.0	mg/kg dry wt.
Solids, Total	50	mg/kg dry wt.
Zinc, Total	34000	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34089
DESCRIPTION: Lagoon - 1 (Lagoon #4)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI001ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.2
FINAL PH: 4.8
ACID USED(mls): 254

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.86	100.0 mg/l
CADMIUM	0.065	1.0 mg/l
CHROMIUM, TOTAL	0.03	5.0 mg/l
LEAD	2.3	5.0 mg/l
MERCURY	< 0.0002	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	0.09	100.0 mg/l
ZINC	240	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT Inc.
LABORATORY REPORT

CLIENT: GMC-CFD Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34091
DESCRIPTION: Lagoon - 7 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/14/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI003ME

MICHIGAN EP TOXICITY TEST

TOTAL WEIGHT(grs): 100.0

INITIAL PH: 9.0
FINAL PH: 4.8
ACID USED(mls): 254

PARAMETERS	RESULT mg/l	HAZARDOUS WASTE LIMITS
ARSENIC	< 0.004	5.0 mg/l
BARIUM	0.89	100.0 mg/l
CADMIUM	0.075	1.0 mg/l
CHROMIUM, TOTAL	0.02	5.0 mg/l
LEAD	3.2	5.0 mg/l
MERCURY	0.0004	0.2 mg/l
SELENIUM	< 0.02	1.0 mg/l
SILVER	< 0.01	5.0 mg/l
COPPER	0.11	100.0 mg/l
ZINC	330	500.0 mg/l

Laboratory Director

All leaching tests and leachate analysis meet Michigan Department of Natural Resources requirements as outlined in R 299.9212 RULE 212 (4) of the the Michigan Administrative Code, Hazardous Waste Rules, Dec. 27, 1985.

RMT INC.

LABORATORY REPORT

CLIENT : GMC-CFD SAGINAW GREY IRON
PROJECT #: 01073.22
SAMPLE NUMBER : 34090

DATE: 11/04/88
W.O. #: 101988-0107322
SAMPLE DATE: 10/12/88

SAMPLE DESCRIPTION: LAGOON-4 (LAGOON #3)

PHTHALATE ESTERS REPORT

PARAMETER	RESULT	UNITS
BIS(2-ETHYLHEXYL) PHTHALATE	<10.0	mg/kg dry wt.
BUTYLBENZYL PHTHALATE	<2.5	mg/kg dry wt.
DI-N-BUTYL PHTHALATE	<2.5	mg/kg dry wt.
DIETHYL PHTHALATE	<2.5	mg/kg dry wt.
DIMETHYL PHTHALATE	<2.5	mg/kg dry wt.
DI-N-OCTYL PHTHALATE	<15.0	mg/kg dry wt.

Laboratory Director

RMT Inc.
LABORATORY REPORT

CLIENT: GMC Saginaw Grey Iron
PROJECT #: 1073.22
RMT SAMPLE #: 34090
DESCRIPTION: Lagoon - 4 (Lagoon #3)

SAMPLE DATE: 10/12/88
REPORT DATE: 11/18/88
TOTAL # PAGES: 1
P.O. #: 101988-0107322
FILE NAME: SGI031CO

COMPOSITIONAL ANALYSIS

PARAMETERS	RESULT	UNITS
Formaldehyde	< 5	mg/kg dry wt.

Laboratory Director

PRIMARY LAGOON SLUDGE
EP Toxicity

PARAMETER	SAMPLE GRID 1	GRID 4	GRID 7	$\bar{x}$	S
Arsenic	<0.004	<0.004	<0.004	<0.004	--
Barium	0.860	0.840	0.890	0.860	0.030
Cadmium	0.065	0.099	0.075	0.080	0.017
Chromium	0.030	0.020	0.020	0.023	0.006
Copper	0.090	0.090	0.110	0.097	0.01
Lead	2.300	3.000	3.200	2.800	0.47
Mercury	<0.0002	0.000	0.0004	<0.00027	<0.00012
Selenium	<0.02	<0.02	<0.02	<0.02	--
Silver	<0.01	<0.01	<0.01	<0.01	--
Zinc	240.000	270.00	330.00	280.000	45.80

LAGNTOX D#1 1073.03

Annual Sampling of Solid Wastes
Ocotober 1990

RMT INC

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325 S. Clinton Street
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GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES
FOR MICHIGAN PUBLIC ACT 641
DISPOSAL DESIGNATION

OCTOBER 1990

E. Bernard Roykjenes
Engineering Technician

James R. Burns, P.E.
Group Leader
Engineering and Technical Services

Thomas J. Jancek
Project Manager

1073.43 gm1018

TABLE 3 - 2

GMC-SGI Solid Waste Designation

Toxicity Characteristic Leaching Procedure

PARAMETER	TCLP Regulatory Limits	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
Arsenic (mg/l)	5	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.006	< 0.003
Barium (mg/l)	100	0.37	0.46	3.5	0.28	0.11	0.25	0.07
Cadmium (mg/l)	1	< 0.005	0.008	0.006	0.005	0.007	0.008	0.007
Chromium (mg/l)	5	0.02	0.03	1.5	0.05	0.02	< 0.01	< 0.01
Copper (mg/l)		< 0.02	0.02	0.02	0.03	< 0.02	< 0.02	< 0.02
Lead (mg/l)	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Mercury (mg/l)	0.2	< 0.0002	< 0.0002	< 0.0004	< 0.0002	0.0002	< 0.0002	< 0.0002
Selenium (mg/l)	1	< 0.003	< 0.003	< 0.015	< 0.003	< 0.003	< 0.003	< 0.003
Silver (mg/l)	5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Zinc (mg/kg)		1.2	3.6	12	11	150	4.7	0.03
Fluoride (mg/l)		0.13	0.50	1.2	0.16	1.9	9.5	< 0.10
Phenol (mg/l)		0.35	0.36	0.44	0.23	0.57	0.30	0.44
Phosphorus (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	1.3	1.2	< 0.10
Formaldehyde (mg/l)		< 0.25	< 0.25	NA*	< 0.25	1.3	< 0.25	< 0.25
Benzene (mg/l)	0.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Toluene (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Xylenes (mg/l)		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

NA* = Not Analyzed. Sample contained apparent emulsified oils. Due to light scattering, absorbance values are invalid.

H:1073TB62

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics							
Antimony (mg/kg)	< 20	< 20	< 20	< 20	< 50	< 70	< 20
Arsenic (mg/kg)	1.0	3.8	1.4	0.8	6.3	7.4	< 0.6
Barium (mg/kg)	200	47	430	49	150	210	< 5
Beryllium (mg/kg)	< 0.5	< 0.5	1.7	< 0.5	< 1.1	< 1.8	< 0.5
Biochemical Oxygen Demand	34	30	< 6.7	13	4600	24000	< 2.5
Cadmium (mg/kg)	< 0.5	0.8	< 0.6	< 0.5	30	2	< 0.5
Calcium (mg/kg)	5700	10000	220000	15000	20000	8700	550
Chloride (mg/l)	8.7	140	24	80	420	54	< 21
Chromium (mg/kg)	32	85	560	57	180	7	< 1
Cobalt (mg/kg)	< 5	< 5	< 6	< 5	< 11	< 18	< 5
Copper (mg/kg)	8	32	70	15	120	20	< 2
Corrosivity (pH units)	7.6	9.5	10.5	8.9	9.7	7.3	7.5
Cyanide (mg/kg)	< 2.6	< 2.7	11	< 2.6	< 5.7	< 8.9	< 2.6
Fluoride (mg/kg)	26	39	38	< 21	110	930	< 21
Lead (mg/kg)	< 10	< 10	20	< 10	1100	40	< 10
Lithium (mg/kg)	< 5	< 5	14	< 5	< 10	< 20	< 5
Magnesium (mg/kg)	560	880	5300	690	3900	390	270
Manganese (mg/kg)	400	700	14000	1300	5700	950	15
Mercury (mg/kg)	< 0.11	< 0.11	< 0.11	< 0.1	< 0.23	< 0.36	< 0.10
Nickel (mg/kg)	< 4	13	17	< 4	30	< 14	< 4
Nitrate (mg/kg)	4.6	< 0.54	< 0.56	0.94	< 1.1	310	< 0.52
Nitrite (mg/kg)	< 0.21	< 0.22	< 0.22	< 0.21	< 0.45	< 0.71	< 0.21
Nitrogen, Total Kjeldahl (mg/kg)	880	490	310	260	3700	1800	< 26
Phenols (mg/kg)	15	3.2	< 2.8	< 2.6	100	< 8.9	< 2.6
Phosphorus, Total (mg/kg)	68	63	14	64	3000	12000	28
Potassium (mg/kg)	110	280	2000	230	1900	960	< 50
Selenium (mg/kg)	< 0.6	< 0.6	1.0	< 0.6	< 1.4	< 2.1	< 0.6
Silver (mg/kg)	< 1	< 1	2	< 1	< 2	< 4	< 1

TABLE 3 - 3

GMC-SGI Soilid Waste Designation
Act 293 Analytical Data
Cont'd

PARAMETERS	Core Waste	Metals Reclamation	Quenched Slag	Classified Sand	Primary Lagoon #2	WWTP Filter Cake	New Sand
A. Inorganics Cont'd							
Sodium (mg/kg)	60	110	980	150	1500	3300	< 50
Solids (%)	94	93	90	96	44	28	97
Zinc (mg/kg)	73	150	1900	410	28000	1000	3
B. Volatile Organics							
Methylene Chloride (ug/kg)	0.82	2.1	3.9	3.7	3.0	2.8	< 1.2
Chloroform (ug/kg)	< 0.50	0.81	< 0.50	< 0.50	< 1.0	< 1.6	< 1.2
1,1,1-Trichloroethane (ug/kg)	7.6	2.6	< 0.50	1.4	< 1.0	< 1.6	< 2.5
Benzene (ug/kg)	< 1.0	1.3	2.9	< 1.0	64	< 3.2	< 1.2
Toluene (ug/kg)	< 1.0	4.9	17	< 1.0	44	< 3.2	< 1.2
C. Phthalate Esters							
BIS(2-Ethylhexyl)Phthalate (mg/kg)	0.28	< 0.80	< 0.06	< 0.07	0.15	< 0.24	0.16
D. Phosphates							
Triphenol Phosphate (ppm)	0.088	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Tricersol Phosphate (ppm)	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3
E. PCB's							
Aroclor - 1016 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1221 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1232 (mg/kg)	0.64	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1242 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1248 (mg/kg)	NA	< 0.10	< 0.09	< 0.08	< 0.18	< 0.28	< 0.10
Aroclor - 1254 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
Aroclor - 1260 (mg/kg)	NA	< 0.20	< 0.17	< 0.17	< 0.36	< 0.57	< 0.20
F. Formaldehyde (mg/kg)	< 6.1	< 6.9	< 6.6	< 6.2	< 12.2	< 20.8	15.3
G. Asbestos							
Amosite Asbestos (%)	0	0	0	0	0	0	0
Chrysotile Asbestos (%)	0	0	0	0	0	0	0

H:1073T863 : A83..X155

Annual Sampling of Solid Wastes
January 1992

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GENERAL MOTORS CORPORATION
SAGINAW GREY IRON FOUNDRY
ANNUAL SAMPLING OF SOLID WASTES

JANUARY 1992

E. Bernard Roykjenes
Environmental Scientist

Thomas J. Jancek
Project Manager

1073.47 gm0110

TABLE 3 - 1 CONT'D

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

LAGOON #1 EP TOXICITY

PARAMETER	UNITS	EP TOX HAZ. WASTE LIMITS	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	Upper Confidence Interval
ARSENIC	mg/L	5.0	<0.0060	<0.0060	<0.0060	0.0092
BARIUM	mg/L	100.0	0.22	<0.050	0.085	0.316
CADMIUM	mg/L	1.0	0.056	0.0086	0.023	0.0794
CHROMIUM-TOTAL	mg/L	5.0	<0.010	0.011	0.011	0.016
COPPER	mg/L	100.0	<0.020	<0.020	<0.020	0.031
LEAD	mg/L	5.0	0.080	0.020	0.066	0.120
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.0060	<0.0060	<0.0060	0.0092
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L	500	220	200	140	273

TABLE 3 - 2 CONT'D

GMC-SAGINAW GREY IRON
ANNUAL SAMPLING 1991

LAGOON #1 TCLP 10-METALS

PARAMETER	UNITS	TCLP REGULATORY LIMITS	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	Upper Confidence Interval
ARSENIC	mg/L	5.0	0.016	0.0080	<0.0060	0.0225
BARIUM	mg/L	100.0	0.15	<0.055	<0.053	0.215
CADMIUM	mg/L	1.0	0.0035	<0.00060	0.00079	0.00509
CHROMIUM	mg/L	5.0	0.079	<0.010	<0.010	0.118
COPPER	mg/L		<0.020	<0.021	<0.020	0.032
LEAD	mg/L	5.0	0.12	<0.0060	<0.0060	0.1816
MERCURY	mg/L	0.2	<0.00040	<0.00040	<0.00040	0.00061
SELENIUM	mg/L	1.0	<0.012	<0.012	<0.012	0.018
SILVER	mg/L	5.0	<0.0020	<0.0020	<0.0020	0.0031
ZINC	mg/L		420	160	130	566

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
ENDRIN	mg/L	0.02	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
LINDANE	mg/L	0.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
METHOXYCHLOR	mg/L	10.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TOXAPHENE	mg/L	0.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,4-D	mg/L	10.0	<0.012	<0.012	<0.012	<0.011	<0.01	<0.012	<0.012	<0.012
2,4,5-TP	mg/L	1.0	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORDANE	mg/L	0.03	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
HEPTACHLOR	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
HEPTACHLOR EPOXIDE	mg/L	0.008	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2-CHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2-NITROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
PHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.022J	0.018J	0.014J	<0.025
2,4-DIMETHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	0.006J	0.008J	<0.025	<0.025
2,4-DICHLOROPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4,6-TRICHLOROPHENOL*	mg/L	2.0	<0.042	<0.013	<0.014	<0.064	<0.11	<0.11	<0.11	<0.035
4-CHLORO-3-METHYLPHENOL	mg/L		<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
2,4-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYL-4,6-DINITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
PENTACHLOROPHENOL*	mg/L	100.0	<0.16	<0.18	<0.43	<0.18	<0.18	<0.18	<0.18	<0.13
4-NITROPHENOL	mg/L		<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12
2-METHYLPHENOL	mg/L	(2)								
3-METHYLPHENOL	mg/L	(2)			REPORTED AS TOTAL CRESOLS					
4-METHYLPHENOL	mg/L	(2)								
TOTAL CRESOLS	mg/L	200.0	<0.15	<0.34	<0.23	<0.19	0.22	0.22	0.21	<0.12
2,4-DINITROTOLUENE*	mg/L	0.13 (1)	<0.031	<0.031	<0.030	<0.028	<0.074	<0.074	<0.074	<0.031
HEXACHLOROBENZENE*	mg/L	0.13 (1)	<0.033	<0.030	<0.032	<0.030	<0.033	<0.033	<0.033	<0.033
HEXACHLOROBUTADIENE*	mg/L	0.5	<0.054	<0.057	<0.052	<0.061	<0.047	<0.047	<0.047	<0.047
HEXACHLOROETHANE*	mg/L	3.0	<0.05	<0.053	<0.046	<0.050	<0.04	<0.04	<0.04	<0.042
NITROBENZENE*	mg/L	2.0	<0.036	<0.038	<0.034	<0.033	<0.078	<0.078	<0.078	<0.032
PYRIDINE*	mg/L	5.0 (1)	<0.21	<0.24	<0.19	<0.26	<0.16	<0.16	<0.16	<0.18
2,4,5-TRICHLOROPHENOL*	mg/L	400.0	<0.19	<0.33	<0.67	<0.21	<0.27	<0.27	<0.27	<0.16
PHOSPHORUS	mg/L		<0.10	<0.10	<0.10	<0.10	19	10	6.5	0.39
CHLORIDE	mg/L		7.6	7.4	3.9	5.8	9.0	16	14	24
FLUORIDE	mg/L		0.19	0.13	0.35	0.26	1.2	2.2	2.5	10
TOTAL PHENOLICS	mg/L		<0.050	<0.050	<0.050	<0.050	0.17	0.18	0.16	<0.050

"J" DENOTES AN ESTIMATED CONCENTRATION.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
(2) IF o-, m-, AND p-cresol CONCENTRATIONS CANNOT BE DIFFERENTIATED, THE TOTAL CRESOL CONCENTRATION IS USED.

TABLE 3-2 CONT'D
GMC-CFD-SGI
ANNUAL SAMPLING 1991
TCLP ANALYSES

PARAMETER	UNITS	TCLP REGULATORY LIMITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	LAGOON #1 GL#2	LAGOON #1 GL#3	FILTER CAKE GL#3
CHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
BROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
VINYL CHLORIDE	mg/L	0.2	<0.0010	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
DICHLORODIFLUOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
METHYLENE CHLORIDE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
FLUOROTRICHLOROMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
1,1-DICHLOROETHYLENE	mg/L	0.7	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1-DICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHYLENE (total)	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CHLOROFORM	mg/L	6.0	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROETHANE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
1,1,1-TRICHLOROETHANE	mg/L		0.0032	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CARBON TETRACHLORIDE	mg/L	0.5	<0.0011	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
BROMODICHLOROMETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROPROPANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
CIS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TRICHLOROETHYLENE	mg/L	0.5	<0.0022	<0.0020	<0.0021	<0.0020	<0.002	<0.002	<0.002	<0.0021
BENZENE	mg/L	0.5	<0.0011	<0.0012	<0.0010	<0.0010	0.006	0.007	0.0071	<0.001
1,1,2-TRICHLOROETHANE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
TRANS-1,3-DICHLOROPROPYLENE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
CHLORODIBROMOMETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
2-CHLOROETHYLVINYL ETHER	mg/L		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
BROMOFORM	mg/L		<0.002	<0.002	<0.002	<0.002	<0.001	<0.001	<0.001	<0.001
METHYL ETHYL KETONE	mg/L	200.0	<0.0074	<0.0073	<0.0061	<0.0065	<.0.0067	<.0.0067	<.0.0067	<.0.0071
TETRACHLOROETHYLENE	mg/L	0.7	<0.0026	<0.0025	<0.0022	<0.0022	<0.002	0.0051	0.0048	<0.0021
1,1,2,2-TETRACHLOROETHANE	mg/L		<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
TOLUENE	mg/L		<0.001	<0.001	<0.001	<0.001	0.0021	0.0015	0.0017	<0.001
CHLOROBENZENE	mg/L	100.0	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
ETHYLBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,3-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,2-DICHLOROBENZENE	mg/L		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
1,4-DICHLOROBENZENE	mg/L	7.5	<0.0011	<0.0010	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001
XYLENES	mg/L		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
FORMALDEHYDE	UG/L		430 F(47)	1250 F(47)	540 F(47)	410 F(47)	2272F(58)	1667F(58)	1675F(58)	466F(58)

"F" DENOTES FORMALDEHYDE WAS FOUND IN METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
(1) QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.

TABLE 3-3

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
ANTIMONY	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.1	2.9	<2.7
ARSENIC	mg/Kg DRY WT	1.4	3.2	<1.3	0.71	5.1	9.0
BARIUM	mg/Kg DRY WT	26	86	620	60 *	110	27
BERYLLIUM	mg/Kg DRY WT	<0.53	<0.55	2.6	<0.52	<1.0	<1.3
CADMIUM	mg/Kg DRY WT	<0.53	<0.55	<0.54	<0.52	10	<1.3
CALCIUM	mg/Kg DRY WT	4300	22000	260000	25000	18000	12000
CHROMIUM	mg/Kg DRY WT	51	160	590	83	130	31
COBALT	mg/Kg DRY WT	<5.3	<5.5	<5.4	<5.2	<10	<13
COPPER	mg/Kg DRY WT	22	67	22	14	110	10
LEAD	mg/Kg DRY WT	<21	<22	24	<21	770	<53
LITHIUM	mg/Kg DRY WT	<5.3	<5.5	21	<5.2	<10	<13
MAGNESIUM	mg/Kg DRY WT	550	1100	6500	980	3800	710
MANGANESE	mg/Kg DRY WT	510	2400	22000	3000	4900	1200
MERCURY	mg/Kg DRY WT	<0.11	<0.11	<0.11	<0.10	<0.21	<0.27
NICKEL	mg/Kg DRY WT	11	29	7.0	6.0	32	<11
POTASSIUM	mg/Kg DRY WT	<110	360	2400	410	1800	1300
SELLENIUM	mg/Kg DRY WT	<0.64	<0.66	<3.2	<0.63	<1.2	<1.6
SILVER	mg/Kg DRY WT	<1.1	<1.1	<1.1	<1.0	<2.1	<2.7
SODIUM	mg/Kg DRY WT	230	300	1500	240	1400	4000
ZINC	mg/Kg DRY WT	160	500	2000	440	30000	690
TOTAL SOLIDS	%	93.7	90.3	93.3	95.3	48.2	37.5
CYANIDE (total)	mg/Kg DRY WT	<2.7	<2.8	4.3	<2.6	<5.2	<6.7
REACTIVITY CYANIDE	mg/Kg	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
AMMONIA NITROGEN	mg/Kg	71	<28	<27	<26	150	<66
TOTAL KJELDAHL NITROGEN	mg/Kg DRY WT	690	480	370	210	2900	2500
SOLUBLE (NITRATE & NITRITE)	mg/Kg	37	3.6	0.65	1.6	<0.50	130
PHOSPHORUS (total)	mg/Kg DRY WT	60	91	12	72	4200	15000
REACTIVITY SULFIDES	mg/Kg	<10	<10	<10	<10	<10	<10
CORROSIVITY (soil pH)	pH units	9.3	9.6	9.6	9.7	10.0	7.4

*** DENOTES DUPLICATE ANALYSIS NOT WITHIN CONTROL LIMITS

TABLE 3-3 CONT'D

GMC-CFD-SGI
ANNUAL SAMPLING 1991
COMPOSITIONAL ANALYSES

PARAMETER	UNITS	CORE WASTE GL#6	METALS RECLAMATION GL#7	QUENCHED SLAG GL#4	CLASSIFIED SAND GL#1	LAGOON #1 GL#6	FILTER CAKE GL#3
SOLUBLE CHLORIDE	mg/Kg	98	130	15	41	130	340
FLUORIDES	mg/Kg DRY WT	74	49	46	53	200	2500
TOTAL PHENOLICS	mg/Kg DRY WT	14	<2.9	<2.7	<2.6	69	7.9
ORTHO-PHOSPHATES (as soluble)	mg/kg	1.7	8	<1.0	<1.0	26	10
PCB-1016	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1221	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1232	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1242	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	A	<0.21
PCB-1248	mg/Kg DRY WT	<0.08	<0.09	<0.09	<0.08	0.96	<0.21
PCB-1254	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
PCB-1260	mg/Kg DRY WT	<0.17	<0.18	<0.17	<0.17	A	<0.42
METHYLENE CHLORIDE	mg/Kg DRY WT	0.002J	0.006	0.001J	0.002J	<0.010	<0.016
1,1,1-TRICHLOROETHANE	mg/Kg DRY WT	0.009	0.0004J	<0.005	<0.005	<0.010	<0.016
BENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	0.048	<0.016
CHLOROFORM	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
TOLUENE	mg/Kg DRY WT	<0.005	0.002J	0.0008J	<0.005	0.022	<0.016
XYLENE	mg/Kg DRY WT	<0.005	0.0009J	<0.005	<0.005	0.022	<0.016
CARBON TETRACHLORIDE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
CHLOROBENZENE	mg/Kg DRY WT	<0.005	<0.006	<0.005	<0.005	<0.010	<0.016
BIS-2-ETHYLHEXYLPHTHALATE	mg/Kg DRY WT	0.75J	0.180J	<0.36	<0.35	<6.4	0.61J
TRICRESYL PHOSPHATE	mg/Kg DRY WT	NP	NP	NP	NP	NP	NP
TRIPHENYL PHOSPHATE	mg/Kg DRY WT	P	P	NP	NP	NP	NP
TRIXYLENYL PHOSPHATE	mg/Kg DRY WT	NA	NA	NA	NA	NA	NA
FORMALDEHYDE	UG/L	1949 F(31)	8980 F(31)	5777 F(31)	4824 F(31)	49110 F(31)	391 F(31)
BOD	mg/Kg DRY WT	256	101	<36	<52	3577	2700
ASBESTOS(AMOSITE+CHRYSOTILE)	%	0	0	0	0	0	0
IGNITABILITY	degrees F	>140	>140	>140	>140	>140	>140

"A" DENOTES AR1248 WAS IDENTIFIED AND REPORTED. OTHER AROCHLORS MAY BE PRESENT BUT WERE NOT QUANTIFIABLE.
"F" DENOTES FORMALDEHYDE WAS FOUND IN THE METHOD BLANK. NUMBER IN ( ) IS CONCENTRATION OF FORMALDEHYDE IN BLANK.
"J" DENOTES AN ESTIMATED CONCENTRATION.
"P" DENOTES THIS COMPOUND WAS PRESENT.
"NP" DENOTES THIS COMPOUND WAS NOT PRESENT.
"NA" DENOTES A STANDARD FOR THIS COMPOUND WAS NOT AVAILABLE.

Sampling of Solid Wastes
collected 11/16/92

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N2-11-264
Date: 12/16/92 17:00
Work ID: GM-Grey Iron
Date Received: 11/17/92
Date Completed: 12/16/92
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description
01	Filter Cake 401/#1
02	Filter Cake 401/#2
03	Filter Cake 403/#3
04	Filter Cake 403/#4
05	Lagoon Inlet/#5
06	Lagoon Middle #1/#17
07	Lagoon Middle #2/#20
08	Lagoon Outlet/#30

ANALYTICAL METHODS AND DOCUMENTATION ARE FOUND AT THE END OF THIS REPORT. ALL RESULTS ON SOILS/SLUDGES ARE REPORTED "AS RECEIVED" UNLESS OTHERWISE SPECIFIED.

David L. Bumgarner

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

Test Description	Result	Det Limit	Units	Analyzed	By
Corrosivity (pH)	6.311		S.U.	11/19/92	JK

Sample: 05A Lagoon Inlet/#5 **Collected: 11/16/92** **Category: SOLID**

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	0.88	0.2	mg/kg As	11/21/92	TAS
Barium, Total	51	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	8.8	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	8200	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	50	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	1	1	mg/kg Co	12/09/92	JBC
Copper, Total	40	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	<0.5	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/08/92	DIH
Lead, Total	380	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	1100	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1700	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	<5	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	10	2	mg/kg Ni	12/09/92	JBC
Percent Solids	47	1	% wt.	11/19/92	MDC
Phosphorus, Total	4.9	2.5	mg/kg P	11/19/92	SMC
Potassium, Total	730	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/22/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/21/92	WMW
Selenium, Total	0.2	0.2	mg/kg Se	11/21/92	TAS
Silver, Total	0.48	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	550	25	mg/kg Na	12/09/92	JBC
Zinc, Total	8300	0.5	mg/kg Zn	12/09/92	JBC

Sample: 05E Lagoon Inlet/#5 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.3	0.1	mg/L N	11/21/92	DIH
Biochemical Oxygen Demand	24	3	mg/L O2	11/20/92	SMC
Chloride, Leachable	9	2	mg/L Cl	11/22/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/19/92	JK

Test Description	Result	Det Limit	Units	Analyzed	By
Fluoride, Leachable	4.7	0.1	mg/L F	11/22/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/19/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	11/20/92	DIH
Orthophosphate, Leachable	3.3	0.05	mg/L P	11/20/92	SMC

Sample: 05F Lagoon Inlet/#5 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	11/16/92	JB
Corrosivity (pH)	7.504		S.U.	11/19/92	JK

Sample: 06A Lagoon Middle #1/#17 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	1.4	0.2	mg/kg As	11/21/92	TAS
Barium, Total	55	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	4	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	8100	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	58	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	44	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	<0.5	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/08/92	DIH
Lead, Total	400	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	1500	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1800	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	6	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	10	2	mg/kg Ni	12/09/92	JBC
Percent Solids	44	1	% wt.	11/19/92	MDC
Phosphorus, Total	24	2.5	mg/kg P	11/19/92	SMC
Potassium, Total	750	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/22/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/21/92	WMW
Selenium, Total	0.3	0.2	mg/kg Se	11/21/92	TAS
Silver, Total	0.67	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	540	25	mg/kg Na	12/09/92	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Zinc, Total	10,000	0.5	mg/kg Zn	12/09/92	JBC

Sample: 06E Lagoon Middle #1/#17 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.2	0.1	mg/L N	11/21/92	DIH
Biochemical Oxygen Demand	24	3	mg/L O2	11/20/92	SMC
Chloride, Leachable	9	2	mg/L Cl	11/22/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/19/92	JK
Fluoride, Leachable	4.0	0.1	mg/L F	11/22/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/19/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	11/20/92	DIH
Orthophosphate, Leachable	2.8	0.05	mg/L P	11/20/92	SMC

Sample: 06F Lagoon Middle #1/#17 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	11/16/92	JB
Corrosivity (pH)	7.409		S.U.	11/19/92	JK

Sample: 07A Lagoon Middle #2/#20 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	1.8	0.2	mg/kg As	11/21/92	TAS
Barium, Total	48	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	4	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	7200	10	mg/kg Ca	12/09/92	JBC
Chromium, Total	51	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	44	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	1.1	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/08/92	DIH
Lead, Total	370	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	1200	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1800	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS

Test Description	Result	Det Limit	Units	Analyzed	By
Molybdenum, Total	6	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	10	2	mg/kg Ni	12/09/92	JBC
Percent Solids	43	1	% wt.	11/19/92	MDC
Phosphorus, Total	3.7	2.5	mg/kg P	11/19/92	SMC
Potassium, Total	750	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/22/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/21/92	WMW
Selenium, Total	0.3	0.2	mg/kg Se	11/21/92	TAS
Silver, Total	0.57	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	530	25	mg/kg Na	12/09/92	JBC
Zinc, Total	8000	0.5	mg/kg Zn	12/09/92	JBC

Sample: 07E Lagoon Middle #2/#20 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.3	0.1	mg/L N	11/21/92	DIH
Biochemical Oxygen Demand	23	3	mg/L O2	11/20/92	SMC
Chloride, Leachable	9	2	mg/L Cl	11/22/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/19/92	JK
Fluoride, Leachable	4.1	0.1	mg/L F	11/22/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/19/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	11/20/92	DIH
Orthophosphate, Leachable	2.6	0.05	mg/L P	11/20/92	SMC

Sample: 07F Lagoon Middle #2/#20 Collected: 11/16/92 Category: SOLID
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	11/16/92	JB
Corrosivity (pH)	7.574		S.U.	11/19/92	JK

Sample: 08A Lagoon Outlet/#30 Collected: 11/16/92 Category: SOLID

Test Description	Result	Det Limit	Units	Analyzed	By
Arsenic, Total	2.2	0.2	mg/kg As	11/21/92	TAS
Barium, Total	52	0.5	mg/kg Ba	12/09/92	JBC
Cadmium, Total	4	0.5	mg/kg Cd	12/09/92	JBC
Calcium, Total	7500	10	mg/kg Ca	12/09/92	JBC

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Test Description	Result	Det Limit	Units	Analyzed	By
Chromium, Total	55	1	mg/kg Cr	12/09/92	JBC
Cobalt, Total	2	1	mg/kg Co	12/09/92	JBC
Copper, Total	47	1	mg/kg Cu	12/09/92	JBC
Cyanide, Total	1.2	0.5	mg/kg CN	11/20/92	REB
Ignitability	>95		Degrees C	12/08/92	DIH
Lead, Total	380	5	mg/kg Pb	12/09/92	PNW
Lithium, Total	<5	5	mg/kg Li	12/03/92	TAS
Magnesium, Total	1500	25	mg/kg Mg	12/09/92	JBC
Manganese, Total	1900	0.5	mg/kg Mn	12/09/92	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	11/21/92	TAS
Molybdenum, Total	5	5	mg/kg Mo	12/09/92	JBC
Nickel, Total	10	2	mg/kg Ni	12/09/92	JBC
Percent Solids	44	1	% wt.	11/19/92	MDC
Phosphorus, Total	<2.5	2.5	mg/kg P	11/21/92	SMC
Potassium, Total	850	50	mg/kg K	12/09/92	JBC
Reactivity, Cyanide	<10	10	mg/kg HCN	11/22/92	REB
Reactivity, Sulfide	<100	100	mg/kg H2S	11/21/92	WMW
Selenium, Total	0.3	0.2	mg/kg Se	11/21/92	TAS
Silver, Total	0.75	0.2	mg/kg Ag	12/15/92	JKM
Sodium, Total	600	25	mg/kg Na	12/09/92	JBC
Zinc, Total	7500	0.5	mg/kg Zn	12/09/92	JBC

Sample: 08E Lagoon Outlet/#30 Collected: 11/16/92 Category: SOLID
Job: GM_E1 ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.2	0.1	mg/L N	11/21/92	DIH
Biochemical Oxygen Demand	22	3	mg/L O2	11/20/92	SMC
Chloride, Leachable	8	2	mg/L Cl	11/22/92	DIH
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	11/19/92	JK
Fluoride, Leachable	3.6	0.1	mg/L F	11/22/92	SMC
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	11/19/92	JK
Nitrate, Leachable	<0.05	0.05	mg/L N	11/20/92	DIH
Orthophosphate, Leachable	2.6	0.05	mg/L P	11/20/92	SMC

Sample: 08F Lagoon Outlet/#30 **Collected: 11/16/92** **Category: SOLID**
Job: GM_E2 Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	ND*		Percent	11/16/92	JB
Corrosivity (pH)	7.608		S.U.	11/19/92	JK

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Inlet/#5** Collected: **11/16/92 09:20** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27774
INSTRMT: FINN2 INJECTED: 11/20/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**50**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**BDL**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**19**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**22**	5
51-79-6	Urethane	**ND**	

Sample Description: **Lagoon Inlet/#5** Collected: **11/16/92 09:20** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **05B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	185 *	% Recovery
Toluene-d8	122 *	% Recovery
p-Bromofluorobenzene	85	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Inlet/#5** Collected: **11/16/92 09:20** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **05C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/20/92 FILE #: 4NO8756
INSTRMT: FINN4 INJECTED: 12/02/92 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	1600
106-46-7	1,4-Dichlorobenzene	**BDL**	1600
95-50-1	1,2-Dichlorobenzene	**BDL**	1600
59-50-7	4-Chloro-3-methylphenol	**BDL**	1600
95-57-8	2-Chlorophenol	**BDL**	1600
120-83-2	2,4-Dichlorophenol	**BDL**	1600
105-67-9	2,4-Dimethylphenol	**3500**	1600
51-28-5	2,4-Dinitrophenol	**BDL**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	8250
88-75-5	2-Nitrophenol	**BDL**	1600
100-02-7	4-Nitrophenol	**BDL**	8250
87-86-5	Pentachlorophenol	**BDL**	8250
108-95-2	Phenol	**27,000**	1600
88-06-2	2,4,6-Trichlorophenol	**BDL**	1600
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	6600
000-00-0	Triaryl phosphate esters	**860 ***	

SURROGATES

2-Fluorophenol	63 % Recovery	2-Fluorobiphenyl	91 % Recovery
Phenol-d5	66 % Recovery	2,4,6-Tribromophenol	84 % Recovery
Nitrobenzene-d5	72 % Recovery	p-Terphenyl-d14	74 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

Sample Description: **Lagoon Inlet/#5** Collected: **11/16/92 09:20** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLQ** Lab No: **05D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/18/92
UNITS: mg/L VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	SAMPLE RESULT	SPIKE REC.(%)	CORRECTED RESULT	REG LIMIT
D005	7440-39-3	Barium	<1	95	<1	100.0
D006	7440-43-9	Cadmium	<0.1	91	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	96	<0.2	5.0
D008	7439-92-1	Lead	<1	89	<1	5.0
D010	7782-49-2	Selenium	<0.04	94	<0.04	1.0
	7440-50-8	Copper	<0.2	95	<0.2	100.0
	7440-66-6	Zinc	130	99	130	500.0
	50-00-0	Formaldehyde	2.0 *	NA	NA	

NOTES AND DEFINITIONS FOR THIS SAMPLE
NA = NOT APPLICABLE
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Inlet/#5** Collected: **11/16/92 09:20** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **05F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/17/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/18/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #1/#17** Collected: **11/16/92 09:22** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27775
INSTRMT: FINN2 INJECTED: 11/20/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**58**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**BDL**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**24**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**30**	5
51-79-6	Urethane	**ND**	

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #1/#17** Collected: **11/16/92 09:22** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **06B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	171 *	% Recovery
Toluene-d8	124 *	% Recovery
p-Bromofluorobenzene	86	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **Lagoon Middle #1/#17** Collected: **11/16/92 09:22** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **06C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/20/92 FILE #: 4NO8757
INSTRMT: FINN4 INJECTED: 12/02/92 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	1600
106-46-7	1,4-Dichlorobenzene	**BDL**	1600
95-50-1	1,2-Dichlorobenzene	**BDL**	1600
59-50-7	4-Chloro-3-methylphenol	**BDL**	1600
95-57-8	2-Chlorophenol	**BDL**	1600
120-83-2	2,4-Dichlorophenol	**BDL**	1600
105-67-9	2,4-Dimethylphenol	**3600**	1600
51-28-5	2,4-Dinitrophenol	**BDL**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	8250
88-75-5	2-Nitrophenol	**BDL**	1600
100-02-7	4-Nitrophenol	**BDL**	8250
87-86-5	Pentachlorophenol	**BDL**	8250
108-95-2	Phenol	**29,000**	1600
88-06-2	2,4,6-Trichlorophenol	**BDL**	1600
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	6600
000-00-0	Triaryl phosphate esters	**890 ***	

SURROGATES

2-Fluorophenol	78 % Recovery	2-Fluorobiphenyl	109 % Recovery
Phenol-d5	92 % Recovery	2,4,6-Tribromophenol	98 % Recovery
Nitrobenzene-d5	79 % Recovery	p-Terphenyl-d14	85 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #1/#17** Collected: **11/16/92 09:22** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLQ** Lab No: **06D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/18/92
UNITS: mg/L VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	SAMPLE RESULT	SPIKE REC.(%)	CORRECTED RESULT	REG LIMIT
D005	7440-39-3	Barium	<1	97	<1	100.0
D006	7440-43-9	Cadmium	<0.1	93	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	98	<0.2	5.0
D008	7439-92-1	Lead	<1	94	<1	5.0
D010	7782-49-2	Selenium	<0.04	93	<0.04	1.0
	7440-50-8	Copper	<0.2	97	<0.2	100.0
	7440-66-6	Zinc	140	120	120	500.0
	50-00-0	Formaldehyde	2.0 *	NA	NA	

NOTES AND DEFINITIONS FOR THIS SAMPLE
NA = NOT APPLICABLE
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

Sample Description: **Lagoon Middle #1/#17** Collected: **11/16/92 09:22** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **06F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/17/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/18/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

Sample Description: **Lagoon Middle #2/#20** Collected: **11/16/92 09:27** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27776
INSTRMT: FINN2 INJECTED: 11/20/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**63**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**BDL**	5
75-09-2	Methylene chloride	**BDL**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**29**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**34**	5
51-79-6	Urethane	**ND**	

Sample Description: **Lagoon Middle #2/#20** Collected: **11/16/92 09:27** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **07B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	175 *	% Recovery
Toluene-d8	132 *	% Recovery
p-Bromofluorobenzene	85	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #2/#20** Collected: **11/16/92 09:27** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **07C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/20/92 FILE #: 4NO8758
INSTRMT: FINN4 INJECTED: 12/02/92 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	1600
106-46-7	1,4-Dichlorobenzene	**BDL**	1600
95-50-1	1,2-Dichlorobenzene	**BDL**	1600
59-50-7	4-Chloro-3-methylphenol	**BDL**	1600
95-57-8	2-Chlorophenol	**BDL**	1600
120-83-2	2,4-Dichlorophenol	**2600**	1600
105-67-9	2,4-Dimethylphenol	**BDL**	1600
51-28-5	2,4-Dinitrophenol	**BDL**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	8250
88-75-5	2-Nitrophenol	**BDL**	1600
100-02-7	4-Nitrophenol	**BDL**	8250
87-86-5	Pentachlorophenol	**BDL**	8250
108-95-2	Phenol	**20,000**	1600
88-06-2	2,4,6-Trichlorophenol	**BDL**	1600
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	6600
000-00-0	Triaryl phosphate esters	**780 ***	

SURROGATES

?-Fluorophenol	78 % Recovery	2-Fluorobiphenyl	71 % Recovery
Phenol-d5	57 % Recovery	2,4,6-Tribromophenol	64 % Recovery
Nitrobenzene-d5	51 % Recovery	p-Terphenyl-d14	60 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #2/#20** Collected: **11/16/92 09:27** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLQ** Lab No: **07D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/18/92
UNITS: mg/L VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	SAMPLE RESULT	SPIKE REC. (%)	CORRECTED RESULT	REG LIMIT
D005	7440-39-3	Barium	<1	98	<1	100.0
D006	7440-43-9	Cadmium	<0.1	96	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	99	<0.2	5.0
D008	7439-92-1	Lead	<1	97	<1	5.0
D010	7782-49-2	Selenium	<0.04	95	<0.04	1.0
	7440-50-8	Copper	<0.2	98	<0.2	100.0
	7440-66-6	Zinc	110	70	160	500.0
	50-00-0	Formaldehyde	1.8 *	NA	NA	

NOTES AND DEFINITIONS FOR THIS SAMPLE
NA = NOT APPLICABLE
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Middle #2/#20** Collected: **11/16/92 09:27** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **07F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/17/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/18/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Outlet/#30** Collected: **11/16/92 09:32** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

ANALYST: JOD FILE #: 2GM27777
INSTRMT: FINN2 INJECTED: 11/20/92 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**91**	5
75-27-4	Bromodichloromethane	**BDL**	5
75-25-2	Bromoform	**BDL**	5
74-83-9	Bromomethane	**BDL**	10
56-23-5	Carbon tetrachloride	**BDL**	5
108-90-7	Chlorobenzene	**BDL**	5
75-00-3	Chloroethane	**BDL**	10
110-75-8	2-Chloroethylvinyl ether	**BDL**	10
67-66-3	Chloroform	**BDL**	5
74-87-3	Chloromethane	**BDL**	10
124-48-1	Dibromochloromethane	**BDL**	5
75-71-8	Dichlorodifluoromethane	**BDL**	5
75-34-3	1,1-Dichloroethane	**BDL**	5
107-06-2	1,2-Dichloroethane	**BDL**	5
75-35-4	1,1-Dichloroethene	**BDL**	5
156-60-5	trans-1,2-Dichloroethene	**BDL**	5
78-87-5	1,2-Dichloropropane	**BDL**	5
10061-01-5	cis-1,3-Dichloropropene	**BDL**	5
10061-02-6	trans-1,3-Dichloropropene	**BDL**	5
100-41-4	Ethyl benzene	**7**	5
75-09-2	Methylene chloride	**BDL**	5
79-34-5	1,1,2,2-Tetrachloroethane	**BDL**	5
127-18-4	Tetrachloroethene	**BDL**	5
75-69-4	Trichlorofluoromethane	**BDL**	10
79-01-6	Trichloroethene	**BDL**	5
71-55-6	1,1,1-Trichloroethane	**BDL**	5
79-00-5	1,1,2-Trichloroethane	**BDL**	5
108-88-3	Toluene	**64**	5
75-01-4	Vinyl chloride	**BDL**	10
1330-20-7	Xylenes, Total	**59**	5
51-79-6	Urethane	**ND**	

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Outlet/#30** Collected: **11/16/92 09:32** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **08B** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	190 *	% Recovery
Toluene-d8	167 *	% Recovery
p-Bromofluorobenzene	82	% Recovery

NOTES AND DEFINITIONS FOR THIS REPORT
DET LIMIT = DETECTION LIMIT
BDL = BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = REANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

Sample Description: **Lagoon Outlet/#30** Collected: **11/16/92 09:32** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **08C** Category: **SOLID**

ANALYST: MAH EXTRACTED: 11/20/92 FILE #: 4NO8766
INSTRMT: FINN4 INJECTED: 12/03/92 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
541-73-1	1,3-Dichlorobenzene	**BDL**	1600
106-46-7	1,4-Dichlorobenzene	**BDL**	1600
95-50-1	1,2-Dichlorobenzene	**BDL**	1600
59-50-7	4-Chloro-3-methylphenol	**BDL**	1600
95-57-8	2-Chlorophenol	**BDL**	1600
120-83-2	2,4-Dichlorophenol	**BDL**	1600
105-67-9	2,4-Dimethylphenol	**3200**	1600
51-28-5	2,4-Dinitrophenol	**BDL**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**BDL**	8250
88-75-5	2-Nitrophenol	**BDL**	1600
100-02-7	4-Nitrophenol	**BDL**	8250
87-86-5	Pentachlorophenol	**BDL**	8250
108-95-2	Phenol	**26,000**	1600
88-06-2	2,4,6-Trichlorophenol	**BDL**	1600
117-81-7	Bis(2-ethylhexyl)phthalate	**BDL**	6600
000-00-0	Triaryl phosphate esters	**1900 ***	

SURROGATES

2-Fluorophenol	61 % Recovery	2-Fluorobiphenyl	100 % Recovery
Phenol-d5	72 % Recovery	2,4,6-Tribromophenol	78 % Recovery
Nitrobenzene-d5	65 % Recovery	p-Terphenyl-d14	73 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
ND = NOT DETECTED BY GC/MS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **Lagoon Outlet/#30** Collected: **11/16/92 09:32** Method:
Test Description: **TCLP Metals/Formaldehyde** Test Code: **GMTCLQ** Lab No: **08D** Category: **SOLID**

TCLP EXTRACTION DATE: 11/18/92
UNITS: mg/L VERIFIED: CLC

EPA HW#	CAS#	COMPOUND NAME	SAMPLE RESULT	SPIKE REC.(%)	CORRECTED RESULT	REG LIMIT
D005	7440-39-3	Barium	<1	94	<1	100.0
D006	7440-43-9	Cadmium	<0.1	96	<0.1	1.0
D007	7440-47-3	Chromium	<0.2	95	<0.2	5.0
D008	7439-92-1	Lead	<1	95	<1	5.0
D010	7782-49-2	Selenium	<0.04	94	<0.04	1.0
	7440-50-8	Copper	<0.2	95	<0.2	100.0
	7440-66-6	Zinc	120	83	140	500.0
	50-00-0	Formaldehyde	1.8 *	NA	NA	

NOTES AND DEFINITIONS FOR THIS SAMPLE
NA = NOT APPLICABLE
* = ANALYSIS PERFORMED BY CLAYTON ENVIRONMENTAL CONSULTANTS

Sample Description: **Lagoon Outlet/#30** Collected: **11/16/92 09:32** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **08F** Category: **SOLID**

ANALYST: JE EXTRACTED: 11/18/92 FILE #: NA
INSTRMT: V_3400 INJECTED: 11/19/92 FACTOR: 10 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**BDL**	33
11104-28-2	Aroclor-1221	**BDL**	33
11141-16-5	Aroclor-1232	**BDL**	33
53469-21-9	Aroclor-1242	**BDL**	33
12672-29-6	Aroclor-1248	**BDL**	33
11097-69-1	Aroclor-1254	**BDL**	33
11096-82-5	Aroclor-1260	**BDL**	33

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
BDL=BELOW DETECTION LIMIT
NA =NOT ANALYZED

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number:

Order #: N3-12-426
Date: 01/07/94 12:41
Work ID: Grey Iron Resampling/L.Sludge
Date Received: 12/18/93
Date Completed: 12/23/93
Client Code: NOVI_GM

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	LS-1	03	LS-3
02	LS-2	04	LS-4

All results on soils/sludges are reported "AS RECEIVED" unless otherwise specified. This report shall not be reproduced except in full, without the written approval of KEMRON.

Certified By
Leslie Bucina

KEMRON ENVIRONMENTAL SERVICES

Sample Description: **LS-1**
Test Description: **Metals (10) - TCLP**

Test Code: **TCME10** Method: Lab No: **01A** Category: **SOLID**

TCLP EXTRACTION DATE: 12/19/93
UNITS: mg/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.003**	0.002
7440-39-3	Barium	**0.34**	0.01
7440-43-9	Cadmium	**0.05**	0.02
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**0.08**	0.02
7439-92-1	Lead	**0.089**	0.01
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.002
7440-22-4	Silver	**ND**	0.01
7440-66-6	Zinc	**140**	0.01
	Iron	0.3	0.04
	Manganese	9.4	0.01

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1** Method: **8270**
Test Description: **TCLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **01A** Category: **SOLID**

ANALYST: MAH EXTRACTED: 12/20/93 FILE #: 1GM26487
INSTRMT: FINN1 INJECTED: 12/22/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES

2-Fluorophenol	NF *	% Recovery
Phenol-d6	NF *	% Recovery
2,4,6-Tribromophenol	NF *	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
* = SAMPLE MATRIX INTERFERENCE

Sample Description: **LS-1** Method: **8260**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **01A** Category: **SOLID**

ANALYST: PNW FILE #: 2GM34633
INSTRMT: FINN2 INJECTED: 12/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**ND**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**ND**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**ND**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**ND**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **01A** Method: **8260** Category: **SOLID**

SURROGATES	
1,2-Dichloroethane-d4	97 % Recovery
Toluene-d8	102 % Recovery
p-Bromofluorobenzene	111 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **LS-2**
Test Description: **Metals (10) - TCLP** Test Code: **TCME10** Method: Lab No: **02A** Category: **SOLID**

TCLP EXTRACTION DATE: 12/19/93
UNITS: mg/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.004**	0.002
7440-39-3	Barium	**0.31**	0.01
7440-43-9	Cadmium	**0.07**	0.02
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**0.07**	0.02
7439-92-1	Lead	**0.076**	0.01
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.002
7440-22-4	Silver	**ND**	0.01
7440-66-6	Zinc	**170**	0.01
	Iron	ND	0.04
	Manganese	11	0.01

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **TCLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **02A** Category: **SOLID**

Method: **8270**

ANALYST: MAH EXTRACTED: 12/20/93 FILE #: 1GM26488
INSTRMT: FINN1 INJECTED: 12/22/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES	
2-Fluorophenol	NF * % Recovery
Phenol-d6	NF * % Recovery
2,4,6-Tribromophenol	NF * % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
* = SAMPLE MATRIX INTERFERENCE

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **02A** Category: **SOLID**

Method: **8260**

ANALYST: PNW
INSTRMT: FINN2 INJECTED: 12/21/93 FILE #: 2GM34634 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Method: **8260** Lab No: **02A** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	97	% Recovery
Toluene-d8	104	% Recovery
p-Bromofluorobenzene	111	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3**
Test Description: **Metals (10) - TCLP** Test Code: **TCME10** Method: Lab No: **03A** Category: **SOLID**

TCLP EXTRACTION DATE: 12/19/93
UNITS: mg/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.01**	0.002
7440-39-3	Barium	**0.37**	0.01
7440-43-9	Cadmium	**0.08**	0.02
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**0.05**	0.02
7439-92-1	Lead	**0.077**	0.01
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.002
7440-22-4	Silver	**ND**	0.01
7440-66-6	Zinc	**180**	0.01
	Iron	ND	0.04
	Manganese	14	0.01

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3** Method: **8270**
Test Description: **TCLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **03A** Category: **SOLID**

ANALYST: MAH EXTRACTED: 12/20/93 FILE #: 1GM26489
INSTRMT: FINN1 INJECTED: 12/22/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES

2-Fluorophenol	NF *	% Recovery
Phenol-d6	NF *	% Recovery
2,4,6-Tribromophenol	NF *	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
* = SAMPLE MATRIX INTERFERENCE

Sample Description: **LS-3** Method: **8260**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **03A** Category: **SOLID**

ANALYST: PNW FILE #: 2GM34635
INSTRMT: FINN2 INJECTED: 12/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**ND**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**ND**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**ND**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**ND**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3**
Test Description: **TCLP Volatiles - GM**

Test Code: **GMTCVO** Method: **8260** Lab No: **03A** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	107	% Recovery
p-Bromofluorobenzene	114	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4**
Test Description: **Metals (10) - TCLP** Test Code: **TCME10** Method: Lab No: **04A** Category: **SOLID**

TCLP EXTRACTION DATE: 12/19/93
UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**0.007**	0.002
7440-39-3	Barium	**0.38**	0.01
7440-43-9	Cadmium	**ND**	0.02
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.02
7439-92-1	Lead	**0.064**	0.01
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.002
7440-22-4	Silver	**ND**	0.01
7440-66-6	Zinc	**41**	0.01
	Iron	20	0.04
	Manganese	14	0.01

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIRONMENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4** Method: **8270**
Test Description: **TCLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: 04A Category: **SOLID**

ANALYST: MAH EXTRACTED: 12/20/93 FILE #. 1GM26507
INSTRMT: FINN1 INJECTED: 12/23/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES	
2-Fluorophenol	NF * % Recovery
Phenol-d6	NF * % Recovery
2,4,6-Tribromophenol	NF * % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND
* = SAMPLE MATRIX INTERFERENCE

Sample Description: **LS-4** Method: **8260**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **04A** Category: **SOLID**

ANALYST: PNW FILE #: 2GM34636
INSTRMT: FINN2 INJECTED: 12/21/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**ND**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**ND**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**ND**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**ND**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

Sample Description: **LS-4** Method: **8260**
Test Description: **TCLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **04A** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	98	% Recovery
Toluene-d8	108	% Recovery
p-Bromofluorobenzene	115	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sampling of Solid Wastes
10/06/93

KEMRON ENVIRONMENTAL SERVICES
109 STARLITE PARK
MARIETTA, OHIO 45750

Phone: (614) 373-4071

Kemron Environmental Services
39830 Grand River B2
Novi, MI 48375

Attn: Chuck O'Bryan
Invoice Number: 52018

Order #: N3-10-147
Date: 01/12/94 11:06
Work ID: GM-Lagoon Sludge
Date Received: 10/08/93
Date Completed: 11/08/93
Client Code: NOVI_GM

CORRECTED REPORT

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	LS-1	03	LS-3
02	LS-2	04	LS-4

All results on soils/sludges are reported "AS RECEIVED" unless otherwise specified. This report shall not be reproduced, except in full, without the written approval of KEMRON.

David L. Bumgarner

Certified By
David L. Bumgarner

KEMRON
ENVIRONMENTAL SERVICES

KEMRON ENVIR .MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample: 01A LS-1 **Collected: 10/06/93 Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	5600	5	mg/kg Al	10/15/93	JBC
Arsenic, Total	3.0	0.2	mg/kg As	10/26/93	JEC
Barium, Total	84	0.5	mg/kg Ba	10/12/93	JBC
Cadmium, Total	3.3	0.025	mg/kg Cd	10/26/93	TAS
Calcium, Total	12,000	10	mg/kg Ca	10/20/93	JBC
Chromium, Total	77	1	mg/kg Cr	10/12/93	JBC
Cobalt, Total	3	1	mg/kg Co	10/20/93	JBC
Copper, Total	60	1	mg/kg Cu	10/12/93	JBC
Iron, Total	28,000	2	mg/kg Fe	10/15/93	JBC
Lead, Total	640	0.25	mg/kg Pb	10/25/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/21/93	JBC
Magnesium, Total	2100	25	mg/kg Mg	10/20/93	JBC
Manganese, Total	2700	0.5	mg/kg Mn	10/15/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	10/13/93	TAS
Nickel, Total	20	2	mg/kg Ni	10/12/93	JBC
Potassium, Total	890	50	mg/kg K	10/20/93	JBC
Selenium, Total	0.9	0.2	mg/kg Se	10/18/93	JEC
Silver, Total	1	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	700	25	mg/kg Na	10/20/93	JBC
Zinc, Total	14,000	0.5	mg/kg Zn	10/12/93	JBC

Sample: 01B LS-1 **Collected: 10/06/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	1.3	0.5	mg/kg CN	10/18/93	JWR
Ignitability	>95		Degrees C	10/23/93	REB
Percent Solids	65	1	% wt.	10/14/93	DJP
Phosphorus, Total	11	2.5	mg/kg P	10/19/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	10/26/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	10/25/93	DIH

Sample: 01E LS-1 **Collected: 10/06/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	1.2	0.1	mg/L N	10/13/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/13/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/12/93	JMK
Fluoride, Leachable	2.6	0.5	mg/L F	10/14/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/12/93	JMK
Nitrate, Leachable	<1	1	mg/L N	10/14/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/14/93	JMK

Sample: 01F LS-1 **Collected: 10/06/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	7.66		S.U.	10/12/93	JMK
Formaldehyde	6000	400	UG/KG	10/08/93	GVR

Sample: 02A LS-2 **Collected: 10/06/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	4600	5	mg/kg Al	10/15/93	JBC
Arsenic, Total	3.4	0.2	mg/kg As	10/26/93	JEC
Barium, Total	84	0.5	mg/kg Ba	10/12/93	JBC
Cadmium, Total	4.0	0.025	mg/kg Cd	10/26/93	TAS
Calcium, Total	11,000	10	mg/kg Ca	10/20/93	JBC
Chromium, Total	78	1	mg/kg Cr	10/12/93	JBC
Cobalt, Total	3	1	mg/kg Co	10/20/93	JBC
Copper, Total	74	1	mg/kg Cu	10/12/93	JBC
Iron, Total	30,000	2	mg/kg Fe	10/15/93	JBC
Lead, Total	760	0.25	mg/kg Pb	10/25/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/21/93	JBC
Magnesium, Total	2000	25	mg/kg Mg	10/20/93	JBC
Manganese, Total	2800	0.5	mg/kg Mn	10/15/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	10/13/93	TAS
Nickel, Total	21	2	mg/kg Ni	10/12/93	JBC
Potassium, Total	900	50	mg/kg K	10/20/93	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Selenium, Total	1	0.2	mg/kg Se	10/18/93	JEC
Silver, Total	1	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	880	25	mg/kg Na	10/20/93	JBC
Zinc, Total	16,000	0.5	mg/kg Zn	10/12/93	JBC

Sample: 02B LS-2 **Collected: 10/06/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	1.2	0.5	mg/kg CN	10/18/93	JWR
Ignitability	>95		Degrees C	10/23/93	REB
Percent Solids	60	1	% wt.	10/14/93	DJP
Phosphorus, Total	<2.5	2.5	mg/kg P	10/19/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	10/26/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	10/25/93	DIH

Sample: 02E LS-2 **Collected: 10/06/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.5	0.1	mg/L N	10/13/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/13/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/12/93	JMK
Fluoride, Leachable	2.1	0.5	mg/L F	10/14/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/12/93	JMK
Nitrate, Leachable	1.2	1	mg/L N	10/14/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/14/93	JMK

Sample: 02F LS-2 **Collected: 10/06/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.60		S.U.	10/12/93	JMK
Formaldehyde	1900	400	UG/KG	10/08/93	GVR

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample: 03A LS-3 **Collected: 10/06/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	5000	5	mg/kg Al	10/15/93	JBC
Arsenic, Total	3.7	0.2	mg/kg As	10/26/93	JEC
Barium, Total	95	0.5	mg/kg Ba	10/12/93	JBC
Cadmium, Total	3.9	0.025	mg/kg Cd	10/26/93	TAS
Calcium, Total	12,000	10	mg/kg Ca	10/20/93	JBC
Chromium, Total	83	1	mg/kg Cr	10/12/93	JBC
Cobalt, Total	4	1	mg/kg Co	10/20/93	JBC
Copper, Total	75	1	mg/kg Cu	10/12/93	JBC
Iron, Total	32,000	2	mg/kg Fe	10/15/93	JBC
Lead, Total	720	0.25	mg/kg Pb	10/25/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/21/93	JBC
Magnesium, Total	2100	25	mg/kg Mg	10/20/93	JBC
Manganese, Total	2700	0.5	mg/kg Mn	10/15/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	10/13/93	TAS
Nickel, Total	23	2	mg/kg Ni	10/12/93	JBC
Potassium, Total	880	50	mg/kg K	10/20/93	JBC
Selenium, Total	1	0.2	mg/kg Se	10/18/93	TAS
Silver, Total	1	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	590	25	mg/kg Na	10/20/93	JBC
Zinc, Total	15,000	0.5	mg/kg Zn	10/12/93	JBC

Sample: 03B LS-3 **Collected: 10/06/93** **Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	1.4	0.5	mg/kg CN	10/18/93	JWR
Ignitability	>95		Degrees C	10/23/93	REB
Percent Solids	70	1	% wt.	10/14/93	DJP
Phosphorus, Total	3.4	2.5	mg/kg P	10/19/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	10/26/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	10/25/93	DIH

Sample: 03E LS-3 **Collected: 10/06/93** **Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	0.4	0.1	mg/L N	10/13/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/13/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/12/93	JMK
Fluoride, Leachable	2.1	0.5	mg/L F	10/14/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/12/93	JMK
Nitrate, Leachable	2.2	1	mg/L N	10/14/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/14/93	JMK

Sample: 03F LS-3 **Collected: 10/06/93** **Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.94		S.U.	10/12/93	JMK
Formaldehyde	2700	400	UG/KG	10/11/93	GVR

Sample: 04A LS-4 **Collected: 10/06/93** **Category: SOLID**
Job: GM1A Metals, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Aluminum, Total	3300	5	mg/kg Al	10/15/93	JBC
Arsenic, Total	2.4	0.2	mg/kg As	10/26/93	JEC
Barium, Total	67	0.5	mg/kg Ba	10/12/93	JBC
Cadmium, Total	3.8	0.025	mg/kg Cd	10/26/93	TAS
Calcium, Total	13,000	10	mg/kg Ca	10/20/93	JBC
Chromium, Total	58	1	mg/kg Cr	10/12/93	JBC
Cobalt, Total	2	1	mg/kg Co	10/20/93	JBC
Copper, Total	43	1	mg/kg Cu	10/12/93	JBC
Iron, Total	17,000	2	mg/kg Fe	10/15/93	JBC
Lead, Total	610	0.25	mg/kg Pb	10/25/93	TAS
Lithium, Total	<5	5	mg/kg Li	10/21/93	JBC
Magnesium, Total	1500	25	mg/kg Mg	10/20/93	JBC
Manganese, Total	2500	0.5	mg/kg Mn	10/15/93	JBC
Mercury, Total	<0.25	0.25	mg/kg Hg	10/13/93	TAS
Nickel, Total	10	2	mg/kg Ni	10/12/93	JBC
Potassium, Total	650	50	mg/kg K	10/20/93	JBC

Test Description	Result	Det Limit	Units	Analyzed	By
Selenium, Total	0.7	0.2	mg/kg Se	10/18/93	TAS
Silver, Total	1	0.2	mg/kg Ag	10/28/93	JBC
Sodium, Total	410	25	mg/kg Na	10/20/93	JBC
Zinc, Total	9200	0.5	mg/kg Zn	10/12/93	JBC

Sample: 04B LS-4 **Collected: 10/06/93 Category: SOLID**
Job: GM1B Inorganics, Total

Test Description	Result	Det Limit	Units	Analyzed	By
Cyanide, Total	1.4	0.5	mg/kg CN	10/18/93	JWR
Ignitability	>95		Degrees C	10/23/93	REB
Percent Solids	57	1	% wt.	10/14/93	DJP
Phosphorus, Total	3.4	2.5	mg/kg P	10/19/93	SMC
Reactivity, Cyanide	<10	10	mg/kg HCN	10/26/93	JWR
Reactivity, Sulfide	<100	100	mg/kg H2S	10/25/93	DIH

Sample: 04E LS-4 **Collected: 10/06/93 Category: SOLID**
Job: GM1E ASTM Leachate Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Ammonia, Leachable	<0.1	0.1	mg/L N	10/13/93	REB
Biochemical Oxygen Demand	<3	3	mg/L O2	10/13/93	SMC
Chromium, Hexavalent	<0.05	0.05	mg/L Cr	10/12/93	JMK
Fluoride, Leachable	2.1	0.5	mg/L F	10/14/93	JMK
Hypochlorite, Leachable	<0.2	0.2	mg/L CL2	10/12/93	JMK
Nitrate, Leachable	1.4	1	mg/L N	10/14/93	JMK
Orthophosphate, Leachable	<5	5	mg/L P	10/14/93	JMK

Sample: 04F LS-4 **Collected: 10/06/93 Category: SOLID**
Job: GM1F Miscellaneous Analyses

Test Description	Result	Det Limit	Units	Analyzed	By
Asbestos, PLM	<1	1.0	Percent	10/15/93	JB
Corrosivity (pH)	8.82		S.U.	10/12/93	JMK
Formaldehyde	38,000	400	UG/KG	10/11/93	GVR

Sample Description: **LS-1**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:26** Method: **8260**
Test Code: **GM826** Lab No: **01C** Category: **SOLID**

ANALYST: TLD
INSTRMT: FINN3 INJECTED: 10/18/93 FILE #: 3GM31217 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	14	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:26** Method: **8260**
Test Code: **GM826** Lab No: **01C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	117	% Recovery
Toluene-d8	117	% Recovery
p-Bromofluorobenzene	88	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

KEMRON ENVIR TAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1** Collected: **10/06/93 09:26** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **01D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/14/93 FILE #: 060R0101
INSTRMT: HP_IV INJECTED: 10/18/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**110**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	54	% Recovery
2,4,5,6-tetrachloro-m-xylene	72	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **LS-1** Collected: **10/06/93 09:26** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **01D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/20/93 FILE #: 1GM25452
INSTRMT: FINN1 INJECTED: 10/26/93 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	6600
59-50-7	4-Chloro-3-methylphenol	**ND**	1600
95-57-8	2-Chlorophenol	**ND**	1600
120-83-2	2,4-Dichlorophenol	**ND**	1600
105-67-9	2,4-Dimethylphenol	**3100**	1600
51-28-5	2,4-Dinitrophenol	**ND**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	8250
88-75-5	2-Nitrophenol	**ND**	1600
100-02-7	4-Nitrophenol	**ND**	8250
87-86-5	Pentachlorophenol	**ND**	8250
108-95-2	Phenol	**20,000**	1600
95-95-4	2,4,5-Trichlorophenol	**ND**	8250
88-06-2	2,4,6-Trichlorophenol	**ND**	1600

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**5300 ***

Sample Description: **LS-1**
Test Description: **Semivolatile Compounds**

Collected: **10/06/93 09:26** Method: **8270**
Test Code: **GM827** Lab No: **01D** Category: **SOLID**

SURROGATES		
2-Fluorophenol	101	% Recovery
Phenol-d6	108	% Recovery
Nitrobenzene-d5	91	% Recovery
2-Fluorobiphenyl	100	% Recovery
2,4,6-Tribromophenol	93	% Recovery
p-Terphenyl-d14	112	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIR ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1**
Test Description: **Metals (10) - SPLP**

Collected: **10/06/93 09:26** Method:
Test Code: **TCME10** Lab No: **01G** Category: **SOLID**

SPLP EXTRACTION DATE: 10/12/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.22**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.010
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**26**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **LS-1** Collected: **10/06/93 09:26** Method: **8270**
Test Description: **SPLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **01G** Category: **SOLID**

ANALYST: MDC EXTRACTED: 10/18/93 FILE #: 4GM12835
INSTRMT: FINN4 INJECTED: 10/26/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES		
2-Fluorophenol	126 *	% Recovery
Phenol-d6	117 *	% Recovery
2,4,6-Tribromophenol	119	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
* = SEE CASE NARRATIVE

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-1** Collected: **10/06/93 09:26** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **01G** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33506
INSTRMT: FINN2 INJECTED: 10/13/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **LS-1**
Test Description: **SPLP Volatiles - GM**

Collected: **10/06/93 09:26** Method: **8260**
Test Code: **GMTCVO** Lab No: **01G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	99	% Recovery
Toluene-d8	107	% Recovery
p-Bromofluorobenzene	103	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:38** Method: **8260**
Test Code: **GM826** Lab No: **02C** Category: **SOLID**

ANALYST: TLD
INSTRMT: FINN3 INJECTED: 10/18/93

FILE #: 3GM31218
FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	**14**	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **LS-2**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:38** Method: **8260**
Test Code: **GM826** Lab No: **02C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	113	% Recovery
Toluene-d8	119 *	% Recovery
p-Bromofluorobenzene	83	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = RE-ANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE

KEMRON ENVIR ..ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2** Collected: **10/06/93 09:38** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **02D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/14/93 FILE #: 060R0101
INSTRMT: HP_IV INJECTED: 10/18/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**75**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	53	% Recovery
2,4,5,6-tetrachloro-m-xylene	76	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

Sample Description: **LS-2** Collected: **10/06/93 09:38** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **02D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/20/93 FILE #: 1GM25471
INSTRMT: FINN1 INJECTED: 10/27/93 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	6600
59-50-7	4-Chloro-3-methylphenol	**ND**	1600
95-57-8	2-Chlorophenol	**ND**	1600
120-83-2	2,4-Dichlorophenol	**ND**	1600
105-67-9	2,4-Dimethylphenol	**3500**	1600
51-28-5	2,4-Dinitrophenol	**ND**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	8250
88-75-5	2-Nitrophenol	**ND**	1600
100-02-7	4-Nitrophenol	**ND**	8250
87-86-5	Pentachlorophenol	**ND**	8250
108-95-2	Phenol	**20,000**	1600
95-95-4	2,4,5-Trichlorophenol	**ND**	8250
88-06-2	2,4,6-Trichlorophenol	**ND**	1600

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**6600 ***

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **Semivolatile Compounds**

Collected: **10/06/93 09:38** Method: **8270**
Test Code: **GM827** Lab No: **02D** Category: **SOLID**

SURROGATES		
2-Fluorophenol	107	% Recovery
Phenol-d6	107	% Recovery
Nitrobenzene-d5	85	% Recovery
2-Fluorobiphenyl	85	% Recovery
2,4,6-Tribromophenol	90	% Recovery
p-Terphenyl-d14	99	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

Sample Description: **LS-2**
Test Description: **Metals (10) - SPLP**

Collected: **10/06/93 09:38** Method:
Test Code: **TCME10** Lab No: **02G** Category: **SOLID**

SPLP EXTRACTION DATE: 10/12/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.19**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**0.03**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.010
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.11**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR AENTAL SERVICES
TEST ULTS BY SAMPLE

Sample Description: **LS-2** Collected: **10/06/93 09:38** Method: **8270**
Test Description: **SPLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **02G** Category: **SOLID**

ANALYST: MDC EXTRACTED: 10/18/93 FILE #: 4GM12836
INSTRMT: FINN4 INJECTED: 10/26/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES		
2-Fluorophenol	132 *	% Recovery
Phenol-d6	118 *	% Recovery
2,4,6-Tribromophenol	128 *	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
* = SEE CASE NARRATIVE

Sample Description: **LS-2** Collected: **10/06/93 09:38** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **02G** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33507
INSTRMT: FINN2 INJECTED: 10/13/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	**ND**	5
75-27-4	Bromodichloromethane	**ND**	5
75-25-2	Bromoform	**ND**	5
74-83-9	Bromomethane	**ND**	10
56-23-5	Carbon tetrachloride	**ND**	5
108-90-7	Chlorobenzene	**ND**	5
75-00-3	Chloroethane	**ND**	10
110-75-8	2-Chloroethyl vinyl ether	**ND**	10
67-66-3	Chloroform	**ND**	5
74-87-3	Chloromethane	**ND**	10
124-48-1	Dibromochloromethane	**ND**	5
95-50-1	1,2-Dichlorobenzene	**ND**	5
541-73-1	1,3-Dichlorobenzene	**ND**	5
106-46-7	1,4-Dichlorobenzene	**ND**	5
75-71-8	Dichlorodifluoromethane	**ND**	5
75-34-3	1,1-Dichloroethane	**ND**	5
107-06-2	1,2-Dichloroethane	**ND**	5
75-35-4	1,1-Dichloroethene	**ND**	5
156-60-5	trans-1,2-Dichloroethene	**ND**	5
78-87-5	1,2-Dichloropropane	**ND**	5
10061-01-5	cis-1,3-Dichloropropene	**ND**	5
10061-02-6	trans-1,3-Dichloropropene	**ND**	5
100-41-4	Ethyl benzene	**ND**	5
75-09-2	Methylene chloride	**ND**	5
79-34-5	1,1,2,2-Tetrachloroethane	**ND**	5
127-18-4	Tetrachloroethene	**ND**	5
75-69-4	Trichlorofluoromethane	**ND**	10
79-01-6	Trichloroethene	**ND**	5
71-55-6	1,1,1-Trichloroethane	**ND**	5
79-00-5	1,1,2-Trichloroethane	**ND**	5
108-88-3	Toluene	**ND**	5
75-01-4	Vinyl chloride	**ND**	10
1330-20-7	Xylenes, Total	**ND**	5

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-2**
Test Description: **SPLP Volatiles - GM**

Collected: **10/06/93 09:38** Method: **8260**
Test Code: **GMTCVO** Lab No: **02G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	93	% Recovery
Toluene-d8	104	% Recovery
p-Bromofluorobenzene	95	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **LS-3**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:48** Method: **8260**
Test Code: **GM826** Lab No: **03C** Category: **SOLID**

ANALYST: TLD
INSTRMT: FINN3 INJECTED: 10/15/93 FILE #: 3GM31200
FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	10 E	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3**
Test Description: **Volatile Organics**

Collected: **10/06/93 09:48** Method: **8260**
Test Code: **GM826** Lab No: **03C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES

1,2-Dichloroethane-d4	135 *	% Recovery
Toluene-d8	117	% Recovery
p-Bromofluorobenzene	90	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH
E = ESTIMATED CONCENTRATION DUE TO SAMPLE MATRIX INTERFERENCE WITH INTERNAL STANDARD.
* = RE-ANALYSIS CONFIRMS SAMPLE MATRIX INTERFERENCE.

Sample Description: **LS-3** Collected: **10/06/93 09:48** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **03D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/14/93 FILE #: 062R0101
INSTRMT: HP_IV INJECTED: 10/18/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**88**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	50 % Recovery
2,4,5,6-tetrachloro-m-xylene	73 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3** Collected: **10/06/93 09:48** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **03D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/20/93 FILE #: 1GM25472
INSTRMT: FINN1 INJECTED: 10/27/93 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	6600
59-50-7	4-Chloro-3-methylphenol	**ND**	1600
95-57-8	2-Chlorophenol	**ND**	1600
120-83-2	2,4-Dichlorophenol	**ND**	1600
105-67-9	2,4-Dimethylphenol	**3700**	1600
51-28-5	2,4-Dinitrophenol	**ND**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	8250
88-75-5	2-Nitrophenol	**ND**	1600
100-02-7	4-Nitrophenol	**ND**	8250
87-86-5	Pentachlorophenol	**ND**	8250
108-95-2	Phenol	**18,000**	1600
95-95-4	2,4,5-Trichlorophenol	**ND**	8250
88-06-2	2,4,6-Trichlorophenol	**ND**	1600

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**5500 ***

Sample Description: **LS-3**
Test Description: **Semivolatile Compounds**

Collected: **10/06/93 09:48** Method: **8270**
Test Code: **GM827** Lab No: **03D** Category: **SOLID**

SURROGATES		
2-Fluorophenol	102	% Recovery
Phenol-d6	106	% Recovery
Nitrobenzene-d5	83	% Recovery
2-Fluorobiphenyl	86	% Recovery
2,4,6-Tribromophenol	94	% Recovery
p-Terphenyl-d14	103	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-3**
Test Description: **Metals (10) - SPLP**

Collected: **10/06/93 09:48** Method:
Test Code: **TCME10** Lab No: **03G** Category: **SOLID**

SPLP EXTRACTION DATE: 10/12/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.18**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**ND**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.010
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**0.67**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

Sample Description: **LS-3** Collected: **10/06/93 09:48** Method: **8270**
Test Description: **SPLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **03G** Category: **SOLID**

ANALYST: MDC EXTRACTED: 10/18/93 FILE #: 4GM12837
INSTRMT: FINN4 INJECTED: 10/26/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES

2-Fluorophenol	114 *	% Recovery
Phenol-d6	106 *	% Recovery
2,4,6-Tribromophenol	113	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
* = SEE CASE NARRATIVE

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KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Collected: 10/06/93 09:48 Method: 8260
Sample Description: LS-3 Test Code: GMTCVO Lab No: 03G Category: SOLID
Test Description: SPLP Volatiles - GM

FILE #: 2GM33508
ANALYST: SDF FACTOR: 1 UNITS: ug/L VERIFIED: RJW
INSTRMT: FINN2 INJECTED: 10/13/93

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	10
75-69-4	Trichlorofluoromethane	ND	5
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	10
75-01-4	Vinyl chloride	ND	5
1330-20-7	Xylenes, Total	ND	

Sample Description: **LS-3**
Test Description: **SPLP Volatiles - GM**

Collected: **10/06/93 09:48** Method: **8260**
Test Code: **GMTCVO** Lab No: **03G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	102	% Recovery
Toluene-d8	105	% Recovery
p-Bromofluorobenzene	102	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR MENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4** Collected: **10/06/93 10:00** Method: **8260**
Test Description: **Volatile Organics** Test Code: **GM826** Lab No: **04C** Category: **SOLID**

ANALYST: TLD FILE #: 3GM31201
INSTRMT: FINN3 INJECTED: 10/15/93 FACTOR: 1 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	6	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **LS-4**
Test Description: **Volatile Organics**

Collected: **10/06/93 10:00** Method: **8260**
Test Code: **GM826** Lab No: **04C** Category: **SOLID**

Library Search Compounds:

CAS#	COMPOUND	RESULT
51-79-6	Urethane	**NF**

SURROGATES		
1,2-Dichloroethane-d4	117	% Recovery
Toluene-d8	116	% Recovery
p-Bromofluorobenzene	94	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NF = NOT FOUND BY GCMS LIBRARY SEARCH

Sample Description: **LS-4** Collected: **10/06/93 10:00** Method: **8270**
Test Description: **Semivolatile Compounds** Test Code: **GM827** Lab No: **04D** Category: **SOLID**

ANALYST: MAH EXTRACTED: 10/20/93 FILE #: 1GM25473
INSTRMT: FINN1 INJECTED: 10/27/93 FACTOR: 330 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
117-81-7	Bis(2-ethylhexyl)phthalate	**ND**	6600
59-50-7	4-Chloro-3-methylphenol	**ND**	1600
95-57-8	2-Chlorophenol	**ND**	1600
120-83-2	2,4-Dichlorophenol	**ND**	1600
105-67-9	2,4-Dimethylphenol	**2300**	1600
51-28-5	2,4-Dinitrophenol	**ND**	8250
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	8250
88-75-5	2-Nitrophenol	**ND**	1600
100-02-7	4-Nitrophenol	**ND**	8250
87-86-5	Pentachlorophenol	**ND**	8250
108-95-2	Phenol	**9500**	1600
95-95-4	2,4,5-Trichlorophenol	**ND**	8250
88-06-2	2,4,6-Trichlorophenol	**ND**	1600

Library Search Compounds:

CAS#	COMPOUND	RESULT
88-06-2	Triaryl phosphate esters	**5000 ***

KEMRON ENVIR AENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4** Collected: **10/06/93 10:00** Method: **8080**
Test Description: **Polychlorinated Biphenyls** Test Code: **PCB_S** Lab No: **04D** Category: **SOLID**

ANALYST: ECL EXTRACTED: 10/14/93 FILE #: 063R0101
INSTRMT: HP_IV INJECTED: 10/18/93 FACTOR: 33 UNITS: ug/kg VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
12674-11-2	Aroclor-1016	**ND**	16
11104-28-2	Aroclor-1221	**ND**	16
11141-16-5	Aroclor-1232	**ND**	16
53469-21-9	Aroclor-1242	**110**	16
12672-29-6	Aroclor-1248	**ND**	16
11097-69-1	Aroclor-1254	**ND**	33
11096-82-5	Aroclor-1260	**ND**	33

SURROGATES

Decachlorobiphenyl	54	% Recovery
2,4,5,6-tetrachloro-m-xylene	79	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA =NOT ANALYZED

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4**
Test Description: **Semivolatile Compounds**

Collected: **10/06/93 10:00** Method: **8270**
Test Code: **GM827** Lab No: **04D** Category: **SOLID**

SURROGATES	
2-Fluorophenol	99 % Recovery
Phenol-d6	102 % Recovery
Nitrobenzene-d5	82 % Recovery
2-Fluorobiphenyl	87 % Recovery
2,4,6-Tribromophenol	95 % Recovery
p-Terphenyl-d14	101 % Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
NF = NOT FOUND BY GCMS LIBRARY SEARCH
* = SEMIQUANTITATIVE SCREEN ONLY

Sample Description: **LS-4**
Test Description: **Metals (10) - SPLP**

Collected: **10/06/93 10:00** Method:
Test Code: **TCME10** Lab No: **04G** Category: **SOLID**

SPLP EXTRACTION DATE: 10/12/93
UNITS: mg/L VERIFIED: CLC

CAS#	COMPOUND	RESULT	DET LIMIT
7440-38-2	Arsenic	**ND**	0.0020
7440-39-3	Barium	**0.19**	0.010
7440-43-9	Cadmium	**ND**	0.020
7440-47-3	Chromium	**0.1**	0.025
7440-50-8	Copper	**ND**	0.020
7439-92-1	Lead	**ND**	0.010
7439-97-6	Mercury	**ND**	0.0005
7482-49-2	Selenium	**ND**	0.0020
7440-22-4	Silver	**ND**	0.010
7440-66-6	Zinc	**1.5**	0.010

NOTES AND DEFINITIONS FOR THIS SAMPLE.
NA = NOT ANALYZED
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)

KEMRON ENVIR .ENTAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4** Collected: **10/06/93 10:00** Method: **8270**
Test Description: **SPLP Semivolatiles - GM** Test Code: **GMTCSV** Lab No: **04G** Category: **SOLID**

ANALYST: MDC EXTRACTED: 10/18/93 FILE #: 4GM12838
INSTRMT: FINN4 INJECTED: 10/26/93 FACTOR: 4 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
59-50-7	4-Chloro-3-methylphenol	**ND**	20
95-57-8	2-Chlorophenol	**ND**	20
120-83-2	2,4-Dichlorophenol	**ND**	20
105-67-9	2,4-Dimethylphenol	**ND**	20
51-28-5	2,4-Dinitrophenol	**ND**	100
534-52-1	2-Methyl-4,6-dinitrophenol	**ND**	100
88-75-5	2-Nitrophenol	**ND**	20
100-02-7	4-Nitrophenol	**ND**	100
87-86-5	Pentachlorophenol	**ND**	100
108-95-2	Phenol	**ND**	20
95-95-4	2,4,5-Trichlorophenol	**ND**	100
88-06-2	2,4,6-Trichlorophenol	**ND**	20

SURROGATES

2-Fluorophenol	121 *	% Recovery
Phenol-d6	107 *	% Recovery
2,4,6-Tribromophenol	111	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)
NA = NOT ANALYZED
* = SEE CASE NARRATIVE

KEMRON ENVIR[redacted]TAL SERVICES
TEST RESULTS BY SAMPLE

Sample Description: **LS-4** Collected: **10/06/93 10:00** Method: **8260**
Test Description: **SPLP Volatiles - GM** Test Code: **GMTCVO** Lab No: **04G** Category: **SOLID**

ANALYST: SDF FILE #: 2GM33509
INSTRMT: FINN2 INJECTED: 10/13/93 FACTOR: 1 UNITS: ug/L VERIFIED: RJW

CAS#	COMPOUND	RESULT	DET LIMIT
71-43-2	Benzene	ND	5
75-27-4	Bromodichloromethane	ND	5
75-25-2	Bromoform	ND	5
74-83-9	Bromomethane	ND	10
56-23-5	Carbon tetrachloride	ND	5
108-90-7	Chlorobenzene	ND	5
75-00-3	Chloroethane	ND	10
110-75-8	2-Chloroethyl vinyl ether	ND	10
67-66-3	Chloroform	ND	5
74-87-3	Chloromethane	ND	10
124-48-1	Dibromochloromethane	ND	5
95-50-1	1,2-Dichlorobenzene	ND	5
541-73-1	1,3-Dichlorobenzene	ND	5
106-46-7	1,4-Dichlorobenzene	ND	5
75-71-8	Dichlorodifluoromethane	ND	5
75-34-3	1,1-Dichloroethane	ND	5
107-06-2	1,2-Dichloroethane	ND	5
75-35-4	1,1-Dichloroethene	ND	5
156-60-5	trans-1,2-Dichloroethene	ND	5
78-87-5	1,2-Dichloropropane	ND	5
10061-01-5	cis-1,3-Dichloropropene	ND	5
10061-02-6	trans-1,3-Dichloropropene	ND	5
100-41-4	Ethyl benzene	ND	5
75-09-2	Methylene chloride	ND	5
79-34-5	1,1,2,2-Tetrachloroethane	ND	5
127-18-4	Tetrachloroethene	ND	5
75-69-4	Trichlorofluoromethane	ND	10
79-01-6	Trichloroethene	ND	5
71-55-6	1,1,1-Trichloroethane	ND	5
79-00-5	1,1,2-Trichloroethane	ND	5
108-88-3	Toluene	ND	5
75-01-4	Vinyl chloride	ND	10
1330-20-7	Xylenes, Total	ND	5

Sample Description: **LS-4**
Test Description: **SPLP Volatiles - GM**

Collected: **10/06/93 10:00** Method: **8260**
Test Code: **GMTCVO** Lab No: **04G** Category: **SOLID**

SURROGATES		
1,2-Dichloroethane-d4	99	% Recovery
Toluene-d8	103	% Recovery
p-Bromofluorobenzene	100	% Recovery

NOTES AND DEFINITIONS FOR THIS SAMPLE
DET LIMIT = DETECTION LIMIT
ND = NOT DETECTED AT OR ABOVE THE METHOD DETECTION LIMIT (MDL)